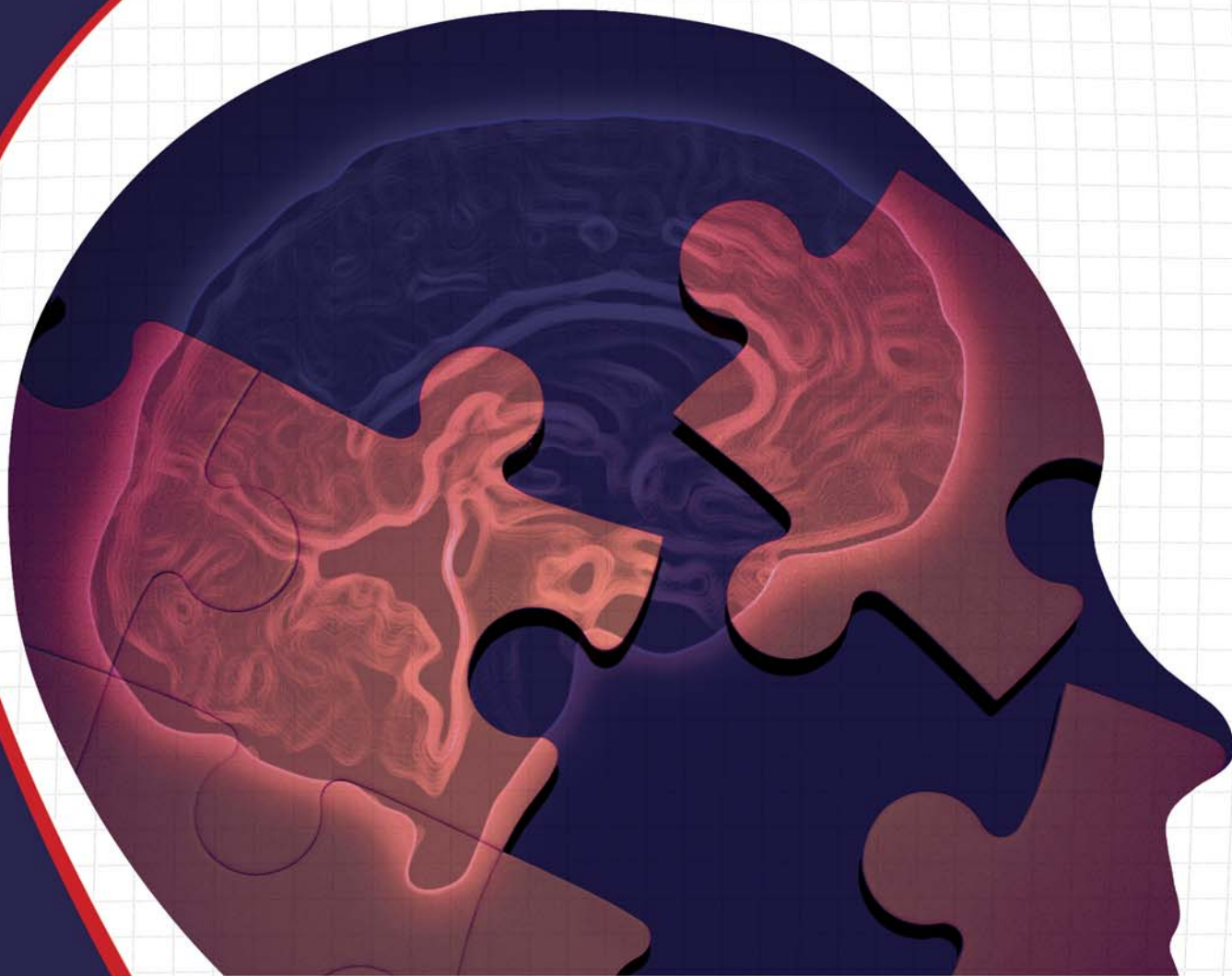


# International Meeting For Autism Research

**May 17-19, 2012**

*Sheraton Centre Toronto ■ Toronto, Ontario, Canada*



**IMFAR**

INTERNATIONAL MEETING  
FOR AUTISM RESEARCH

[www.autism-insar.org](http://www.autism-insar.org)

**PROGRAM BOOK**

# IMFAR WELCOME

Welcome to Toronto! We are very excited to have IMFAR back for the second time in Canada (eh!) and for the first time in the dynamic city of Toronto! We hope you will enjoy some of the attractions including the famous CN Tower, the historic St. Lawrence Market and the exciting entertainment district.

There is a wonderful program planned for you. The Scientific Program Committee reviewed a record number of abstracts, and under the leadership of Drs. Stephen Scherer and Peter Szatmari, has planned what is sure to be an outstanding meeting. The keynote speakers will excite and inspire with new information and perspectives from research into autism and other fields of study. The Invited Educational Symposia cover diverse topics and integrate basic and clinical sciences, and the Oral and Poster sessions promise to be superb. Other highlights will include the Special Interest Group meetings, the 'Meet the Experts' luncheon for trainees, and the always popular Technology Poster Session. The Lifetime Achievement Award and Advocate Award presentations are sure to be memorable. We have also lined up some talented entertainers for the reception on Thursday night that you won't want to miss!

This year's meeting would not have been possible without the tireless efforts of many special people. We would like to acknowledge and thank the INSAR Board for their support and guidance, as well as the Scientific Program Committee and the many abstract reviewers who have striven to ensure the excellence of the science presented at IMFAR. A special thank you goes to Joe Dymek of ConferenceDirect, whose invaluable assistance throughout the planning process was instrumental in making this meeting a success.

We also thank the members of the Meeting Planning Committee for their many contributions, including their inspired efforts in planning an outstanding stakeholder preconference prior to the main meeting.

Margaret Clarke	David Nicholas
Mayada Elsabbagh	Adrienne Perry
Suzanne Lanthier	Margaret Spoelstra

Once again, welcome to Toronto and enjoy every minute of your time here.



Lonnie Zwaigenbaum  
Meeting Co-Chair



Wendy Roberts  
Meeting Co-Chair

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Save the Date  
2013 IMFAR  
Annual Meeting!

**IMFAR 12th  
Annual Meeting**  
May 2 – 4, 2013  
Kursaal Centre  
San Sebastian, Spain

Abstract submission will be much earlier for this meeting. Watch our website for details.

[www.autism-insar.org](http://www.autism-insar.org)



Data presented at the Annual International Meeting for Autism Research (IMFAR) is the sole responsibility of the authors. The sponsor of the Annual Meeting, the International Society for Autism Research (INSAR), takes no responsibility for its accuracy. Submitted IMFAR abstracts are reviewed only to ensure that the authors will be presenting empirical data and that aims and conduct of the study, as far as can be ascertained, are consistent with international ethical guidelines for scientific research (Declaration of Helsinki). Acceptance of an abstract for presentation at the Meeting does not represent an endorsement by the Society of the quality or accuracy of the data and their interpretation, which judgment must await publication in a peer review journal. Consumers should recognize that study data presented at meetings is often preliminary and in some cases speculative, and that findings and conclusions have not undergone the rigors of a true peer review process.

# SCIENTIFIC PROGRAM

The Meeting in San Diego 2011 marked the end of IMFAR's first decade. This meeting in Toronto 2012 marks the start of our second. From this new beginning derives the theme of what we hope will be an exciting, informative and stimulating meeting for autism researchers from around the world. This conference "looks ahead to the next decade of autism research". We hope that speakers and participants will ask questions such as: "where do we want to be at the end of this next decade", "how are we going to get there", "what are the barriers that need to be overcome", and "what are the opportunities that we need to take advantage of?" We hope that you will be able to obtain the answers to some, if not all, of these questions as you attend the Conference in this wonderful city.

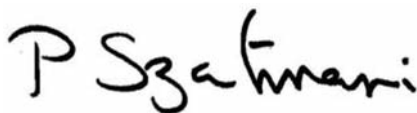
It is remarkable to take a moment and think back over the last decade of IMFAR meetings. We started out largely as a North American group of researchers with a heavy interest in developmental psychopathology. The face of autism research has changed dramatically in this last decade to include scientists who come from disciplines that at first glance have only a marginal relationship with autism. We suspect that when these scientists started their careers they probably never thought they would work in the autism field (and that is certainly the case for one of us!). It is the influx of these scientists with their methods, ideas and technologies and their commitment to multidisciplinary and interprofessional collaboration that has led to the explosion of knowledge in our field and to the asking of more subtle, relevant, and important questions. Transferring these ideas and experiences to our students and trainees is another critical goal of our meeting and we hope you take a special interest in their presentations and posters.

In this spirit of looking outward, we have chosen keynote speakers who have some familiarity with autism but are largely known for their significant contributions to other areas. We firmly believe they can bring a new perspective to the next decade of autism research. We have asked each of them to provide a historical summary of where their field has come from, to briefly summarize the current situation, and to highlight important avenues for collaboration and "cross-talk" over the next decade. We have attempted to provide educational symposia that are innovative and also highlight emerging fields. We have also attempted to broaden the scope of our panels to reflect this growing multi-disciplinary work. This year the number of submissions for scientific panels and posters far exceeded our available slots and so acceptance was more competitive. We see this as a positive step and a recognition of the accelerated pace of international, world class science taking place in our field.

We hope that you enjoy the conference, that you enjoy meeting old friends and making new ones, and more importantly, that you come away energized, informed and ready to embark on the next decade's work of scientific enterprise. Much has been accomplished, but much remains to be done.

We want to take a moment and recognize the incredible work of the Program Committee (*see listing on page 14 for committee members and abstract reviewers*) who helped us decide which submissions to accept, where to place them, and how to get the most out of a day where sessions complement each other. Their dedication to the scientific enterprise of our organization is truly remarkable. We also need to thank the staff at INSAR, especially Jennifer Gentry, who kept us on a tight leash as we tried to meet deadlines and the staff at Confex, especially Richelle Topping, who made the job of designing this program manageable.

Being a scientist means always trying to stay on the "edge" of what is known. It can be a daunting experience but also exhilarating. We hope that you will feel like you are in good company here in Toronto and come away excited, having a clearer sense of the important research questions to be addressed in the "next decade of IMFAR."



Peter Szatmari  
Scientific Program Co-Chair



Stephen Scherer  
Scientific Program Co-Chair

# PRESIDENT'S WELCOME

It is a genuine pleasure to welcome you to IMFAR 2012! We are looking forward to an exciting and stimulating meeting together with almost 2,000 colleagues, who represent all the major research disciplines involved in autism research as well as other key stakeholders in the autism community.

As you all know, IMFAR, the International Society for Autism Research, is the centerpiece of our professional organization which I am currently privileged to lead in the role of president. The work of INSAR is carried out by the Board of Directors and our enthusiastic and dedicated committees. This year we are so grateful to the Chairs of the two key committees who are responsible for organizing IMFAR: Lonnie Zwaigenbaum and Wendy Roberts, our Meeting Co-Chairs, who also organized an exciting pre-conference meeting for the Canadian professional and parent communities, and Peter Szatmari and Stephen Scherer, the Scientific Program Co-Chairs. Along with the members of their committees, they have put in many long hours to ensure that this meeting will be the huge success that we all anticipate. These Committees receive an enormous amount of administrative help and support from several people who are responsible for all the behind the scenes work that bring our meeting to life: at Association Resources, M. Suzanne Berry, Jennifer Gentry and Kate Flaherty; at Convex Technologies, Richelle Topping, and last but not least, Jennifer Marshall, and especially Joe Dymek at Conference Direct. I am truly grateful to all these people for their devotion to IMFAR and INSAR, not only for these few days in May, but all year long!

The success of our meeting goes beyond this group of people. We are grateful to the Co-Chairs of our PR Committee, Alison Singer and Dana Marnane, who once again have taken on the challenge of disseminating many of the exciting research findings that we'll be hearing about over the next few days to the media and world wide autism community. The Chairs and members of several other INSAR Committees are also key to many of the activities planned for this meeting: the SIGs (expanded this year, under the leadership of Beth Malow and Laura Anthony; the Student Committee, co-chaired by Mark Shen and Michele Villalobos; the Awards Committee, chaired by Jamie McPartland; the Cultural Diversity Committee, co-chaired by Marshalyn Yeargin-Allsopp and Tamara Daley; and the Community Advisory Committee, chaired by Peter Bell. We will all be benefiting from the work they have put into planning for this meeting. Finally, I must take this opportunity to thank all our sponsors whose financial support is critical to our ability to bring so many people to this meeting who would otherwise not be able to attend.

This year we have taken a number of important steps in the growth of our organization. This is all made possible by the INSAR Board — including our Past President, David Amaral and Past Treasurer, Laura Klinger — (their leadership from 2009-2011 ensured that I was taking over a professional organization that is in excellent shape); our Vice President Lonnie Zwaigenbaum; Treasurer Kevin Pelphrey; Secretary Nancy Minshew; and Tony Bailey, editor of our flagship journal, *Autism Research*. This extraordinary group is a genuine pleasure to work with. Their wisdom and energy have helped to foster several important advances this year. First, I hope that many of you will have already logged onto our new website — this was made possible by the hard work of our web editor, Christa Anderson, and the Website Committee under the able leadership of Simon Baron-Cohen. Second, the Board held a Strategic Planning Meeting at the end of 2011 to develop our mission statement and set of strategic initiatives that will drive our work over the next few years. Information about this may be found on the website. We will be depending on our Committees to help us to implement our new initiatives. I encourage all of you to learn more about us from the website, or by contacting me in person. We would love to have you involved in helping us move forward in the second decade of our organization!

Enjoy the Meeting! Please don't forget to give us feedback after the Meeting (watch for the online survey) about your experience so that we can find ways of improving each year.



Helen Tager-Flusberg, Ph.D.  
President, INSAR



# Sheraton Centre Hotel — Toronto, Canada

## Hotel Floor Plan

### Meeting Facilities

- M Carleton
- 2 Churchill Foyer
- 2 Churchill Room
- 2 City Hall Room
- 2 Civic Ballroom
- 2 Civic Foyer
- M Conference Room A
- M Conference Room B
- M Conference Room C
- M Conference Room D
- M Conference Room E
- M Conference Room F
- M Conference Room G
- M Conference Room H
- 4 Cosmopolitan
- 2 Dominion Ballroom
- 2 Dominion Foyer
- 2 Dufferin
- 2 Elgin
- M Essex Ballroom
- M Essex Foyer
- 4 Executive Suite
- 4 Gingersnap
- 4 Gold Rush
- LC Grand Ballroom
- LC Grand Ballroom Foyer
- 2 Huron
- 4 Ice Palace
- 2 Kenora
- 2 Kent
- L Office
- M Telepresence Room
- LC Osgoode Ballroom
- LC Osgoode Foyer
- M Oxford
- M Peel
- 2 Simcoe
- LC Sheraton Hall A-F
- 4 Spindrift
- 4 Spring Song
- C VIP Room
- C Vide
- 2&M Waterfall Garden
- 2 Wentworth
- M Windsor East
- M Windsor West
- M York

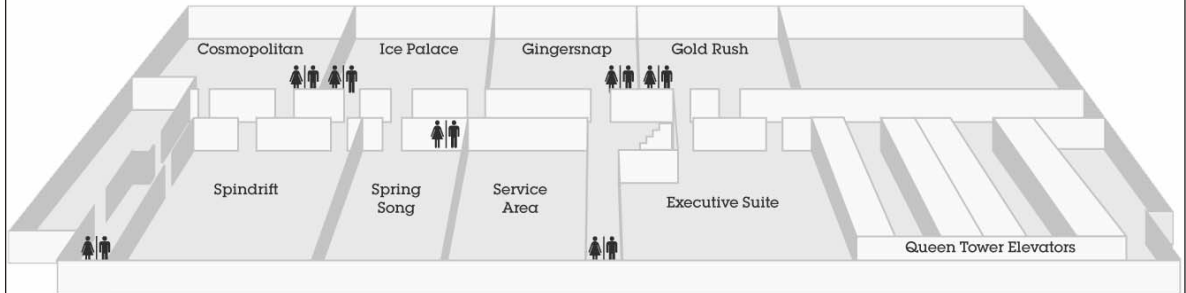
### Hotel Services

- L Arrival Court
- C ATM
- L Baggage Room
- L Bell Desk
- 2 Bistro on Two
- L Business Centre
- C Convention Registration
- C Currency Exchange
- C Food Court
- L Front Desk
- L Quinn's Steakhouse
- L Link @ Sheraton
- L Lobby Cafe
- C Parking (City Hall Underground Lot)
- C PATH Underground Network
- C PSAV Audio Visual Services
- LC Receiving/Loading Dock
- C Security
- L&C Sheraton Shops
- L SPG/Club Reception
- L Traders
- L Tour Desk
- L Valet Parking
- LC Vide Office
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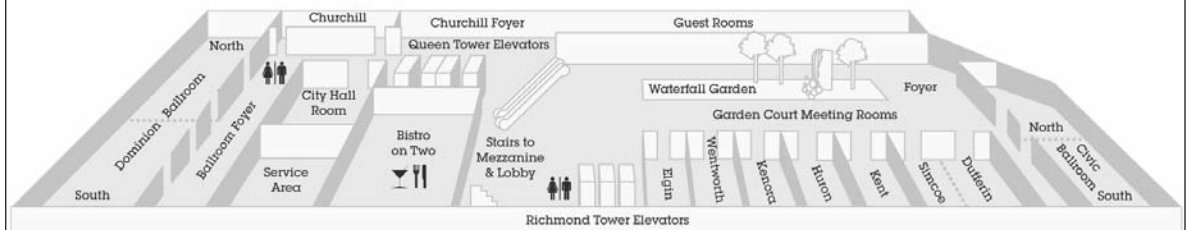
### Service Symbols

- \$ ATM
- ☑ Coatcheck
- 🍴 Food Court
- 🅇 Parking (City Hall Lot)
- 🍽 Restaurants
- 🚻 Washrooms
- ♿ Wheelchair Accessible Elevator

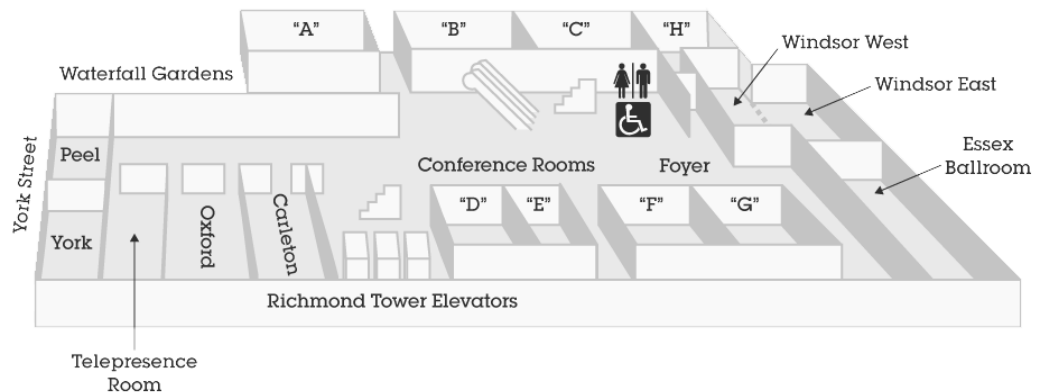
## 4TH FLOOR



## 2ND FLOOR

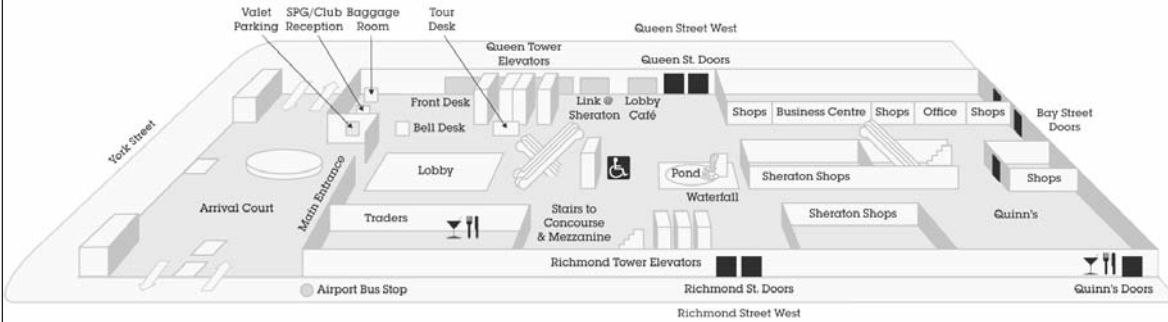


## MEZZANINE



# Sheraton Centre Hotel – Toronto, Canada Hotel Floor Plan

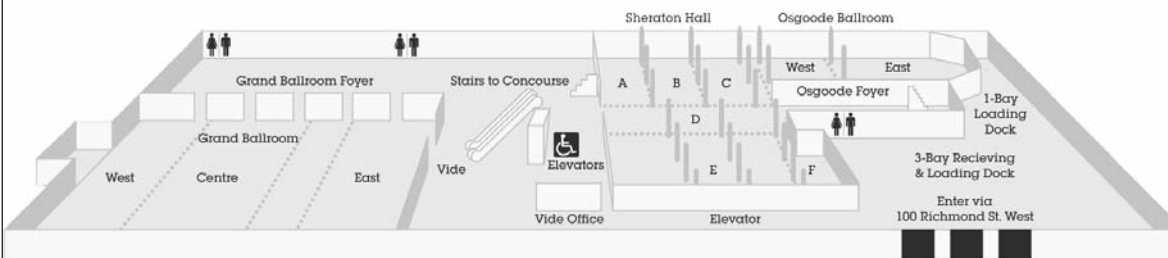
## LOBBY



## CONCOURSE



## LOWER CONCOURSE



### Meeting Facilities

- M Carleton
- 2 Churchill Foyer
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- ☺ Food Court
- P Parking (City Hall Lot)
- ☺ Restaurants
- ♿ Washrooms
- ♿ Wheelchair Accessible Elevator

# SCHEDULE-AT-A-GLANCE

## WEDNESDAY May 16

4:00-8:00P	Registration – Concourse
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## THURSDAY May 17

6:30-5:00P	Registration – Lower Concourse			
7:15-8:15A	Coffee and Pastries – Grand Ballroom Foyer			
8:00-5:00P	<b>Exhibits</b> – Sheraton Hall			
8:00-8:30A	Greetings from the IMFAR Organizers – Grand Ballroom		8:00-12:30P <b>Poster Session</b> – Sheraton Hall  Animal Models Brain Imaging: Functional Brain Imaging: Resting State fcfMRI & Structural Imaging Cell Biology Genetics and Genomics Neuropathology Neurophysiology I Neurophysiology II	
8:30-8:45A	Introduction: Autism Speaks – Grand Ballroom			
8:45-9:00A	Introduction: Simons Foundation – Grand Ballroom			
9:00-10:00A	<b>Keynote Address:</b> Ruth Feldman – Bio-behavioral Synchrony and the Development of Social Reciprocity – Grand Ballroom			
10:00-10:30A	Break – Sheraton Hall			
10:30-12:30P	<b>IES</b> – Grand Ballroom Centre Friendship in ASD through the Life Span: Nature, Trajectories, Importance and Treatment			
10:30-12:30P	<b>Oral Session</b> – Grand Ballroom East Smaller Trials, Treatment Factors	<b>Oral Session</b> – Grand Ballroom West Clinical Phenotype: Assessing Diagnostic Criteria		<b>Oral Session</b> – Osgoode Ballroom East Biological Mechanisms & Animal Models
12:30-1:45P	Lunch Break – On Your Own			
12:30-1:45P	<b>Cultural Diversity Networking Luncheon</b> – City Hall Room			
12:30-1:45P	<b>Session:</b> Overview and Hands-On Training of NDAR and the Autism Informatics Grid – VIP Room			
2:00-4:00P	<b>IES</b> – Grand Ballroom Centre Communicating Autism Science		1:00-5:30P <b>Poster Session</b> – Sheraton Hall  Clinical Phenotype Genetic, Prenatal & Biological Risk Factors Impact of Families & Quality of Life Schools, Employment & Community Screening, Incidence, Prevalence & Study Methods Social Risk Factors & Influences on Phenotype Use, Access & Evaluation of Services	
2:00-4:00P	<b>Oral Session</b> – Grand Ballroom East Large, Controlled Trials	<b>Oral Session</b> – Grand Ballroom West Cognition & Behavior: Across the Lifespan		<b>Oral Session</b> – Osgoode Ballroom East Clinical Phenotype: Influences
4:00-4:30P	Break – Sheraton Hall			
4:30-6:00P	<b>INSAR Awards Ceremony</b> – Grand Ballroom Centre  Lifetime Achievement Award – Susan Folstein, M.D.  Advocate Award – Temple Grandin, Ph.D. (pre-recorded message)  Slifka/Ritvo Innovation in Autism Research Awards (to be announced)			
6:00-8:00P	<b>Reception</b> Dominion Ballroom			

**Abstracts listed with this symbol ▶ have been reviewed by the Cultural Diversity Committee and include an issue of cultural diversity (e.g., race, ethnicity, culture, socioeconomic status), a cross-cultural focus, or use a diverse population.**



# SCHEDULE-AT-A-GLANCE

## FRIDAY May 18

SCHEDULE-AT-A-GLANCE

6:30-5:00P	Registration – Lower Concourse			
7:00-8:30A	Coffee & Pastries – Grand Ballroom Foyer			
7:00-8:30A	<b>SIG</b> – Dominion Ballroom South	<b>SIG</b> – Dominion Ballroom North	<b>SIG</b> – Osgoode Ballroom East	<b>SIG</b> – VIP Room
8:00-5:00P	<b>Exhibits</b> – Sheraton Hall			
8:45-9:00A	Introduction: NIH – Grand Ballroom			
9:00-9:45A	<b>Keynote Address:</b> Bernie Devlin - Common and Rare Genetic Variants in the Etiology of ASD: Where Is the Field Heading?– Grand Ballroom		8:00-12:30P Sheraton Hall <b>Innovative Technologies Demonstration Session</b>	8:00-12:30P <b>Poster Session</b> – Sheraton Hall  Electrophysiology: Early Signs Social Skills, Schools, Stress Early Intervention Pharmacologic, Treatment Factors, Outcome Measures
9:45-10:15A	Break – Sheraton Hall			
10:15-12:15P	<b>IES</b> – Grand Ballroom Centre Biology-based Classification and Prediction in Autism Spectrum Disorders: Promises and Pitfalls			
10:15-12:15P	<b>Oral Session</b> – Grand Ballroom East Genetics I	<b>Oral Session</b> – Grand Ballroom West Brain Imaging: fMRI-Cognition, Motion Perception and Function, and Reward Processing	<b>Oral Session</b> – Osgoode Ballroom East Epidemiology	
12:15-1:30P	Lunch Break – On Your Own			
12:15-1:30P	<b>Student “Meet-the-Experts” Luncheon</b> (pre-registration required) – Dominion Ballroom South			
12:15-1:30P	<b>Autism Community Stakeholders Luncheon</b> – Dominion Ballroom North			
1:30-3:30P	<b>IES</b> – Grand Ballroom Centre Progress, Pitfalls, and Potential of Postmortem Human Brain Research on Autism			1:00-5:30P <b>Poster Session</b> – Sheraton Hall  Cognition & Behavior I Cognition & Behavior II Cognition & Behavior III Cognition & Behavior IV Cognition & Behavior V
1:30-3:30P	<b>Oral Session</b> – Grand Ballroom East Early Developmental Processes and Trajectories in ASD: Infant and Toddler Studies	<b>Oral Session</b> – Grand Ballroom West Core Symptoms	<b>Oral Session</b> – Osgoode Ballroom East Stakeholder Experience	
3:30-4:00P	Break – Sheraton Hall			
4:00-5:00P	<b>Session:</b> An Update on the DSM-5 Recommendations for Autism Spectrum Disorder and Other Neurodevelopmental Disorders – Grand Ballroom Centre			
4:00-5:00P	<b>Scientific Panel</b> – Grand Ballroom East CNVs in ASD Molecular Findings, Clinical Outcomes and Ethical – Implications	<b>Scientific Panel</b> – Grand Ballroom West Social Perception in Toddlers with ASD: Methodological and Conceptual Considerations	<b>Scientific Panel</b> – Osgoode Ballroom East Lullaby and Good Night or Tomorrow Is Gonna Be A Tough Day: Research Predictions for the Influence of Disturbed Sleep and What We Can Do	
5:00-6:00P	<b>Scientific Panel</b> – Grand Ballroom East Disrupted Neural Circuitry in Autism	<b>Scientific Panel</b> – Grand Ballroom West Challenges for Children with ASD in School: Teaching Strategies and Learning Outcomes	<b>Scientific Panel</b> – Osgoode Ballroom East Implications of DSM-5 Criteria for the Recognition of Autism Spectrum Disorders: Clinical and Epidemiological Considerations	

# SCHEDULE-AT-A-GLANCE

## SATURDAY May 19

6:30-3:00P	Registration – Lower Concourse			
7:00-8:30A	Coffee & Pastries – Grand Ballroom Foyer			
7:00-8:30A	<b>SIG</b> – Dominion Ballroom South	<b>SIG</b> – Dominion Ballroom North	<b>SIG</b> – Osgoode East	<b>SIG</b> – VIP Room
8:00-1:00P	<b>Exhibits</b> – Sheraton Hall			
8:45-9:00A	Introduction: CIHR – Grand Ballroom			
9:00-9:45A	<b>Keynote Address:</b> Alan Evans – Structural Connectivity in Neurodevelopment – Grand Ballroom			<b>8:00-12:30P Poster Session – Sheraton Hall</b>  Clinical Phenotype : Measurement Clinical Phenotype: Medical & Biological Profiles Comorbid Medical Conditions Comorbid Psychiatric & Behavioral Conditions Core Deficits & Symptoms Core Deficits & Symptoms II Core Deficits & Symptoms III
9:45-10:15A	Break – Sheraton Hall			
10:15-12:15P	<b>IES</b> – Grand Ballroom Centre Challenges and Opportunities in Conducting Global ASD Research			
10:15-12:15P	<b>IES</b> – Dominion Ballroom Anxiety in Autism Spectrum Disorders: From Biology to Treatment			
10:15-12:15P	<b>Oral Session</b> – Grand Ballroom East Brain Imaging: Development, Structure, and Genetics	<b>Oral Session</b> – Grand Ballroom West Electrophysiological Correlates of Autism Spectrum Disorder	<b>Oral Session</b> — Osgoode Ballroom East Medical, Psychiatric and Behavioral Comorbidities in ASD	
12:15-1:30P	Lunch Break – On Your Own			
12:30-1:30 P	<b>INSAR Business Meeting</b> – Grand Ballroom Centre			
1:30-3:30P	<b>IES</b> – Grand Ballroom Centre Rethinking Interventions and Implementation Strategies for Under-Resourced Areas			
1:30-3:30P	<b>IES</b> – Dominion Ballroom Methodologic Challenges in Risk Factor Epidemiology: Advancing the State of Research			
1:30-3:30P	<b>Oral Session</b> – Grand Ballroom East Brain Imaging: fMRI Social Cognition and Emotion Perception	<b>Oral Session</b> – Grand Ballroom West Services	<b>Oral Session</b> – Osgoode Ballroom East Genetics II	
3:30-4:30P	<b>Session:</b> Data Management for Autism Research – Grand Ballroom West			

### Speaker-Ready Room for Oral Presenters

Location: Elgin Room located on the 2nd floor

All speakers should stop by the Speaker Ready Room to upload their slides prior to their presentation time. A staff person will be available to help speakers upload their slides and other files. If at all possible, please upload your slides the day before your presentation. The Speaker-Ready Room will be open as noted below:

Wednesday, May 16 .....3:00 p.m. - 6:00 p.m.  
 Thursday, May 17.....8:00 a.m. - 5:00 p.m.  
 Friday, May 18 .....8:00 a.m. - 5:00 p.m.  
 Saturday, May 19.....8:00 a.m. - 1:30 p.m.

If speakers do not upload their slides ahead of time, they can still load them on to the computer before they present. However, if there are problems loading the presentation just before presenting, the speaker runs the risk of using up his/her presentation time.

## Thursday, May 17

### Student Social Event

8:30 p.m. — 11:30 p.m. • The Rivoli

Student members are invited to attend the third annual Student Social Event at The Rivoli Pool Hall and Bar (334 Queen St.) just a block away from the conference hotel. Food and non-alcoholic drinks will be provided by INSAR free of charge, and there will be a cash bar. Please come meet old friends and make new ones.

### Cultural Diversity Networking Luncheon

12:30 p.m. — 1:45 p.m. • Sheraton Centre Toronto — City Hall Room

A complimentary lunch will be provided by a generous contribution from the Hilibrand Foundation. Pre-registration is not required.

### Overview and Hands-on Training of NDAR and the Autism Informatics Grid

12:30 p.m. — 1:45 p.m. • Sheraton Centre Toronto — VIP Room

This session will focus on educating the broader scientific community on the opportunities now provided by NDAR and its federation partners. Presentations and a hands-on training session will educate those attending on how to use the increasingly vast informatics grid being developed by and for the autism research community. Bring your lunch. Pre-registration is not required.

## Friday, May 18

### Student “Meet-the-Experts” Roundtable Luncheon

*(by pre-registration only)*

12:15 p.m. — 1:30 p.m. • Sheraton Centre Toronto — Dominion Ballroom South

Student scientists and postdoctoral researchers, bring your lunch and network with expert autism scientists in a unique and informal format. Sit at a roundtable with the autism expert of your choice, who will share experiences about their career, research from their laboratory and advice on how to build a successful research career.

Reservations were accepted prior to the Meeting and were open to current INSAR Student members (graduate, medical and postdoctoral students). Seating is limited. Students who have not registered prior to the Meeting should inquire at the registration desk to determine whether slots are still available. Pre-registration is required.

### Community Advisory Committee (CAC)

### Autism Community Stakeholder\* Luncheon

12:15 p.m. — 1:30 p.m. • Sheraton Centre Toronto — Dominion Ballroom North

A complimentary box lunch will be served. This event is sponsored by Autism Speaks. Pre-registration is not required.

\*Community stakeholders include individuals living with autism and their families /caretakers.

## Saturday, May 19

### Data Management for Autism Research

**A panel of experts discuss best practices in integrated data management for Autism research.**

3:30 p.m. — 4:30 p.m. • Sheraton Centre Toronto — Grand Ballroom West

Studies of autism have become increasingly collaborative over the past decade, and now often include collecting or generating biospecimen, imaging, and genetic data in addition to extensive batteries of behavioral phenotype data. Such integration challenges are often coupled with needs remote or longitudinal data collection from family members and other “reporters” beyond the proband. The panelists will discuss commonly available platforms and best practices that ensure integration challenges are met in ways that are HIPAA/HITECH compliant and that focus on data persistence, sharing and re-usability.

Panelists: Dan Hall (NDAR), Leon Rozenblit (Prometheus Research), Paul Law (IAN)

Pre-registration is not required.



## IMFAR 2012 KEYNOTE SPEAKERS



### **Bernie Devlin, Ph.D.**

Bernie Devlin's research has two major foci, the development of statistical methods for the analysis of genetic data and the implementation of those methods to discover the genetic basis of disease, especially autism, schizophrenia, and neurodegenerative disorders. His work has been recognized by admission as a fellow to the American Association for the Advancement of Science. He chaired the Access Committee for the Center for Inherited Disease Research (CIDR), which is a U.S. government-funded genotyping center that performs massive genotyping and sequencing. The CIDR Access Committee or CAC is charged with judging the value of proposals for access to CIDR for genomewide association studies, among other kinds of genetic studies. He is currently a member of another NIH Independent Review Group, Genetics of Human Disease, and he serves on various advisory boards.



### **Alan Evans, Ph.D.**

Professor Alan Evans did his Ph.D. in biophysics at Leeds University in the UK, studying 3D protein folding. He spent five years at Atomic Energy of Canada, working on the physics and analysis of PET images. In 1984 he moved to the Montreal Neurological Institute (MNI) at McGill where his research interests include multi-modal brain imaging with PET and MRI, structural network modeling and large-scale brain databasing.

He has published 400+ peer-reviewed papers and has held numerous leadership roles, most notably as director of the McConnell Brain Imaging Centre (BIC) during the 1990s. Dr. Evans is a founding member of the International Consortium for Brain Mapping (ICBM). He was one of the founders of the Organization for Human Brain Mapping (OHBM), serving in numerous positions on the OHBM Council since 1995. He chaired the 4th International Conference on Human Brain Mapping in 1998. In 2003 he received a CIHR Senior Scientist Award. He is P.I. of the Montreal Consortium for Brain Imaging Research (MCBIR), a \$35M initiative to link the BIC with six institutions investigating brain development and aging, cognitive neuroscience and addiction. MCBIR employs using MRI/PET/MEG and large-scale data processing for human and animal studies.

Dr. Evans heads the data coordinating center for a large NIH-funded multi-center MRI study of normal pediatric development. This project provides a web-accessible reference database of normal maturation. The technologies developed here, notably (i) web-based imaging/behavioral database, (ii) automated MRI segmentation pipeline, (iii) brain-behavior correlation analysis for volume- or surface-based data, are now used in a series of network collaborations studying abnormal pediatric development (MAVAN, IBIS, NeuroDevNet, GUSTO) and in two multi-center European initiatives to investigate Alzheimer's disease (AddNeuroMed and NeuGrid). He leads network projects in grid-processing of large brain databases, nationally (CBRAIN) and internationally (GBRAIN).

Dr. Evans is Founder and Director of Biospective Inc., ([www.biospective.com](http://www.biospective.com)), a company that offers 3D image analysis for clinical/pre-clinical pharmaceutical studies.



### **Ruth Feldman, Ph.D.**

Ruth Feldman, Ph.D., is a professor of psychology and neuroscience at Bar-Ilan University, Israel, with a joint appointment at Yale University, Child Study Center. She is the director of the developmental affective neuroscience laboratory at the Gonda Brain Sciences Center and heads the community infant mental health clinic and the Irving B. Harris internship program at the Psychology Department. Her research focuses on the biological basis of affiliative bonds, the development of parent-infant relationship, bio-behavioral processes of social reciprocity, and the effects of early risk on children's social-emotional growth. She is among the first researchers to investigate the involvement of Oxytocin in human affiliation, including parenting, romantic attachment, and close friendships. In several longitudinal projects she examined the long-term effects of early disruptions to parental-infant bonding, including prematurity, maternal post-partum depression, and war-related trauma, on children's biosocial development. For over a decade she has been involved in conducting developmental research and intervention programs for Israeli and Palestinian children exposed to repeated war, terror, and violence. Ruth trained as a musician and is the mother of four daughters and a son.



## Lifetime Achievement Award

The Lifetime Achievement Award is given annually by the Executive Board of the International Society for Autism Research. This award acknowledges an individual who has made significant fundamental contributions to research on autism spectrum disorders that have had a lasting impact on the field. The focus of the awardee's research can be in any discipline.

### Susan Folstein, M.D.

Dr. Susan Folstein is a psychiatrist who is also trained in child psychiatry and medical genetics. She has recently come to the University of Miami to join the Departments of Psychiatry and Behavioral Sciences. Her research, which stretches over 35 years, has been at the interface between psychiatry and genetics. Her first research was a twin study of autism, published in 1977, which demonstrated that autism is largely a genetic disorder. Over the years, she has studied not only the genetics and genomics of autism, but also its clinical features, particularly as they relate to gene identification, psychiatric co-morbidity, and its relationship to developmental language disorder.

Dr. Folstein graduated from Cornell Medical College in 1970 and trained in psychiatry at New York Hospital. She began her child psychiatry training in London, with Sir Michael Rutter, where she also carried out the twin study. Her medical genetics training was at Johns Hopkins with Victor McKusick. Subsequently at Hopkins, she and her husband, Marshal Folstein, started the Baltimore Huntington's Disease Center, which is still funded. She started the division of psychiatric genetics, and helped several other faculty start research careers on the genetics of psychiatric disorders. In 1999 she, in collaboration with other researchers in autism genetics, started the Autism Genetics Cooperative and led the Callaway workshops in order to foster collaborative research in autism genetics. The AGC later grew into the Autism Genome Project (AGP). Dr. Folstein was the first woman ever promoted to the level of Professor of Psychiatry at Hopkins. In 2011, she received a lifetime achievement award from the International Society for Psychiatric Genetics.

Her students, who have gone on to study autism, include Joseph Piven, Rebecca Landa, Janet Lainhart, Raphael Bernier, Beth Rosen-Sheidley, Ovsanna Leyfer, and Raymond Mankoski.

## INSAR Advocate Award

This award honors community members / advocates who have influenced the ability to carry out autism research.

### Temple Grandin, Ph.D.

Dr. Grandin is a designer of livestock handling facilities and a Professor of Animal Science at Colorado State University. She obtained her B.A. at Franklin Pierce College and her M.S. in Animal Science at Arizona State University. Dr. Grandin received her Ph.D in Animal Science from the University of Illinois in 1989. Today she teaches courses on livestock behavior and facility design at Colorado State University and consults with the livestock industry on facility design, livestock handling, and animal welfare. She has appeared on television shows such as 20/20, 48 Hours, CNN Larry King Live, PrimeTime Live, the Today Show, and many shows in other countries. She has been featured in People Magazine, the New York Times, Forbes, U.S. News and World Report, Time Magazine, the New York Times book review, and Discover magazine. In 2010, Time Magazine named her one of the 100 most influential people. Interviews with Dr. Grandin have been broadcast on National Public Radio. She has also authored over 400 articles in both scientific journals and livestock periodicals on animal handling, welfare, and facility design. She is the author of "Thinking in Pictures," "Livestock Handling and Transport," "Genetics and the Behavior of Domestic Animals," and "Humane Livestock Handling." Her books "Animals in Translation" and "Animals Make Us Human" were both on the New York Times best seller list. "Animals Make Us Human" was also on the Canadian best seller list. Her life story has also been made into an HBO movie titled "Temple Grandin," starring Claire Danes.

## SLIFKA / RITVO Innovation in Autism Research Awards

The Alan B. Slifka Foundation seeks to promote innovative research on autism spectrum disorders that will lead to innovative treatments and improvements in the quality of life of individuals with autism. The Foundation wishes to partner with INSAR in honoring the most meritorious and innovative presentations at the IMFAR Annual Meeting. The Foundation will provide two research awards: one to a clinical researcher (diagnosis or treatment of autism or educational efforts) the other to a basic researcher (epidemiology, genetics, neuroscience, immunology, etc). The recipients of the Slifka / Ritvo Awards will be announced at the Awards Ceremony at the IMFAR Annual Meeting.

Bios provided by recipients

## Special Interest Groups

### Friday, May 18

7:00 AM - 8:30 AM

Final SIG – last year in multiple year rotation

#### New SIG: Global Knowledge Translation for Research on Early Identification and Intervention in Autism

*Co-Chairs:* Dr. Mayada Elsabbagh, *McGill University and* Dr. Petrus de Vries, *University of Cape Town*

Dominion Ballroom South

#### Final SIG: Sleep in Autism

*Co-Chairs:* Beth Malow, M.D., M.S., *Vanderbilt University and* Amanda Richdale, Ph.D., *LaTrobe University*

Dominion Ballroom North

#### Final SIG: Contextually-based Intervention Research in ASD

*Co-Chairs:* Laura Anthony, Ph.D. and Lauren Kenworthy, Ph.D., *Children's National Medical Center*

Osgoode Ballroom East

#### Final SIG: Postmortem Brain Tissue Research in Autism

*Co-Chairs:* Cyndi Schumann, Ph.D., *UC Davis MIND Institute and* Robert Ring, Ph.D., *Autism Speaks*

VIP Room

### Saturday, May 19

7:00 AM - 8:30 AM

Final SIG – last year in multiple year rotation

#### New SIG: Autism Social, Ethical, and Legal Research

*Co-Chairs:* Dr. Liz Pellicano, *Institute of Education, University of London,* Dr. Bryna Siegel, *University of California San Francisco and* Dr. Michael Yudell, *Drexel University*

Dominion Ballroom South

#### New SIG: Sensory and Motor Features in Autism

*Co-Chairs:* Dr. Alison Lane, *The Ohio State University and* Dr. Justin Williams, *University of Aberdeen Medical School*

Dominion Ballroom North

#### New SIG: Female Profile in ASD

*Co-Chairs:* Alexandra Head, *Deakin University, Australia and* Dr. William Mandy, *University College, London*

Osgoode Ballroom East

#### Final SIG: EEG/MEG in Autism

*Chair:* Sara Jane Webb, Ph.D., *University of Washington*

VIP Room

# IMFAR 2012 AWARDEES

## Student Awards

Student Travel Awards are available to graduate students, postdoctoral fellows, and medical students and residents actively engaged in autism research. The award will provide a \$500 stipend. The first priority is given to students who are presenting their own original research at IMFAR 2012 and who have not received an IMFAR Student Award before.

Morsi Abdallah	Aarhus University
Thomas Avino	University of Nevada
Randi Bennett	Yale University
Lucy Bilaver	Northwestern University
Roser Corominas	UCSD
Chathuri Daluwatte	University of Missouri
Sonja Delmonte	Trinity College Dublin
Mieke Dereu	Ghent University
Ruth Ellingsen	UCLA
Louise Ewing	University of Western Australia
Devon Gangi	University of Miami
Eugenia Gisin	Yale University
Shulamite Green	UCLA
Kevin Greer	University of Alabama Birmingham
Whitney Guthrie	Florida State University
Michelle Hoogenhout	University of Cape Town
Guy Horev	Cold Spring Harbor Labs
Jeffrey Karst	Marquette University
Jennifer Kirchner	Free University Berlin Germany
Judah Koller	Yale University
Mehreen Kouser	University of Texas Southwest Medical Center
Sara Kover	University of Wisconsin - Madison
Natasha Ludwig	Georgia State University
Saara Mahjouri	Weill Cornell Medical College
Kevin McEvoy	UCLA
Rachel Moseley	University of Cambridge
Nir Oksenberg	UCSF
Connor Puleo	Temple University
Michael Rosenthal	Childrens National Medical Center
Jeff Rudie	UCLA
Olga Sysoeva	Washington University
Malav Trivedi	Northwestern University
Avery Voos	Yale University
Samir Wadhawan	University of Pennsylvania
Amy Sue Weitlauf	Vanderbilt University

## Diversity Awards

Diversity Travel Awards are provided to U.S. citizens or others studying in or working in autism research in U.S. health-related institutions, universities, or public agencies. The awards are given to persons from racial, ethnic, and disability groups that have been historically underrepresented in the sciences in the U.S. The awards provide a stipend of \$1,000. The purpose of the awards is to increase the participation of individuals currently underrepresented in the U.S. in the biomedical, clinical, behavioral and social sciences, defined as: 1. individuals from underrepresented racial and ethnic groups and/or 2. individuals with disabilities.

Terrance Bethea	University of North Carolina
Rhonda Charles	Mt. Sinai School of Medicine
Jason R. Cooperrider	University of Utah
Ngoc VB Doan	Sound Choice Pharmaceutical Institute
Marjannnie Eloi	UCLA
Mary Goodarzi	UCLA
Steven Kapp	UCLA
Steven Marinero	UCSD Ace Lab
Thanh Nguyen	San Francisco State University
Olufemi Olu-Lafe	Boston University
Nuri Reyes	Virginia Tech
Andrew J. Rozsa III	University of Alabama at Birmingham
Tewarit Sarachana	George Washington University
Michele Villalobos	Children's Hospital of Philadelphia
Ousseny Zerbo	UC Davis / Kaiser Permanente

## Young Investigator Awards

Young Investigator Awards will be made for the best biological and clinical empirical research papers published or in press in the year 2011 by an investigator who has been awarded their Ph.D. or M.D. in the past seven years. This year the awards will involve a prize of \$1,500.

James McPartland	Yale Child Study Center
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## Dissertation Awards

Dissertation Awards are given annually to active scientists and clinicians working in all aspects of autism research. One award will be for the best basic science dissertation and one for the best clinical/behavioral dissertation in autism accepted by the university in the year 2011. This year these awards will involve a prize of \$1,500 each.

Josephine Barbaro	Latrobe University - Clinical
Brandon Keehn	UCSD & San Diego State University – Basic Science
Armin Raznahan	University of London – Basic Science

## Professionals from Developing Countries Awards

Awards are provided to those Professionals from Developing Countries who are engaged in autism research. The awards provide a stipend of \$1,000.

Yahya Al-Farsi	Oman
Naoufel Gaddour	Tunisia
Karina Gutson	Argentina
Lukmanul Hakkim	Oman
Sabri Herguner	Turkey
Angelina Kakooza	Uganda
Dan Li	China
Dhanya Pillai	Malaysia
Carla Sesarini	Argentina
Megha Sharda	India
Nidhi Singhal	India
Chrystalle Bih Yuan Tan	Malaysia
Alexandru Tarasov	Moldova
Chongying Wang	China

# ACKNOWLEDGMENTS

The International Society for Autism Research (INSAR) is the professional organization that oversees the annual International Meeting for Autism Research (IMFAR). INSAR is responsible for appointing all committees that govern the organization and approving the content and format of the Annual Meeting.

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# IMFAR 2012

Annual Meeting abstracts  
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# THURSDAY May 17, 2012 - AM

www.autism-insar.org

THURSDAY - AM

6:30-5:00P	Registration – Lower Concourse		
7:15-8:15A	Coffee and Pastries – Grand Ballroom Foyer		
8:00-5:00P	<b>Exhibits</b> – Sheraton Hall		
8:00-8:30A	Greetings from the IMFAR Organizers – Grand Ballroom		8:00-12:30P <b>Poster Session –</b> Sheraton Hall  Animal Models Brain Imaging: Functional Brain Imaging: Resting State fcfMRI & Structural Imaging Cell Biology Genetics and Genomics Neuropathology Neurophysiology I Neurophysiology II
8:30-8:45A	Introduction: Autism Speaks – Grand Ballroom		
8:45-9:00A	Introduction: Simons Foundation – Grand Ballroom		
9:00-10:00A	<b>Keynote Address:</b> Ruth Feldman – Bio-behavioral Synchrony and the Development of Social Reciprocity – Grand Ballroom		
10:00-10:30A	Break – Sheraton Hall		
10:30-12:30P	<b>IES</b> – Grand Ballroom Centre Friendship in ASD through the Life Span: Nature, Trajectories, Importance and Treatment		
10:30-12:30P	<b>Oral Session</b> – Grand Ballroom East Smaller Trials, Treatment Factors	<b>Oral Session</b> – Grand Ballroom West Clinical Phenotype: Assessing Diagnostic Criteria	<b>Oral Session</b> – Osgoode Ballroom East Biological Mechanisms & Animal Models
12:30-1:45P	Lunch Break – On Your Own		
12:30-1:45P	<b>Cultural Diversity Networking Luncheon</b> – City Hall Room		
12:30-1:45P	<b>Session:</b> Overview and Hands-On Training of NDAR and the Autism Informatics Grid – VIP Room		

## Keynote Address

### 100 - Bio-behavioral Synchrony and the Development of Social Reciprocity

9:00 AM - 10:00 AM - Grand Ballroom

*Speaker:* R. Feldman; Bar-Ilan University

The talk will present our conceptual model of bio-behavioral synchrony – the coordination of physiological and behavioral responses between attachment partners during social contact as a theoretical and empirical framework for the study of attachment bonds and the origins of social reciprocity. I will describe how micro-level social behaviors in the gaze, vocal, affective, and touch modalities are dynamically integrated with online physiological processes and hormonal response to create dyad-specific attachments and support children's capacity to become members of the social group, understand complex social signals, and develop social collaboration. Studies across multiple attachments throughout life and following children from infancy to adolescence are presented to show that the extended oxytocin (OT) system provides the neurohormonal substrate for parental, romantic, and filial attachment; that various forms of close relationships are expressed in similar constellations of synchronized behavior and OT increase; and that OT is stable over time within individuals, is mutually-influencing among close partners; is linked with distinct patterns of brain activations and genetic markers; and that mechanisms of cross-generation and inter-couple transmission relate to coordinated social behavior. Longitudinal studies assessing bio-behavioral processes in conditions associated with high risk for social development, including prematurity, maternal post-partum depression, or war-related trauma detail specific alterations to social behavior and neurohormonal systems and highlight specific targets for intervention. Overall, the findings suggest that human affiliation and social reciprocity develop within the matrix of biological attunement and close behavioral synchrony and have conceptual implications for the study of inter-subjectivity and the formulation of a brain-based epistemology as well as translational implications for the integration of

OT and behavioral interventions for the treatment of social disorders originating in early childhood.

## Invited Educational Symposium

### 101 - Friendship in ASD through the Life Span: Nature, Trajectories, Importance and Treatment

10:30 AM - 12:30 PM - Grand Ballroom Centre

*Session Chair:* N. Bauminger; Bar-Ilan University

Having friends is cardinal to children's well-being and for the development of ample cognitive, linguistic, and social skills in typical development. Despite the fact that the majority of individuals with ASD (between 60%-75%) have significant difficulties in friendship formation, it is an overlooked topic. Thus, zoom-into research into friendship processes in ASD is greatly needed. In this session, we provide descriptions of friendship's nature, quality, and importance in ASD across development, from preschool through adulthood; as well as pointing out individual, familial, and environmental components that may contribute to friendship formation in ASD. Finally, we review recent evidence from treatment models that aim to enhance friendship in ASD. Novel data will be presented that is based on quantitative and qualitative multidimensional assessment procedures, including semi-structured and spontaneous observations of friendship as well as self- and others' reports, combining current and longitudinal evaluations of friendship.

10:30 101.001 The Beginning of Friendship — Friendship In Preschoolers with HFASD: New Evidence and Implications. N. Bauminger-Zviely, School of Education, Bar-Ilan University, Ramat Gan, Israel

10:45 101.002 Using Parent-Supervised Play Dates to Improve Peer Relationships for Elementary School Children with HFASD. F. Franke, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

- 11:00 101.003 Friendships In Adolescence: Developmental Challenges In Those with ASD. M. Solomon<sup>1</sup>, Department of Psychiatry, MIND Institute, Imaging Research Center, Sacramento, CA; MIND Institute, UC Davis, Sacramento, CA
- 11:15 101.004 Friendships and Social Activities In Individuals with ASD In Adulthood: Trajectories, Predictors, and Implications. M. M. Seltzer<sup>1</sup>, Waisman Center, University of Wisconsin, Madison, WI

**Oral Sessions**

**102 - Smaller Trials, Treatment Factors**

10:30 AM - 12:30 PM - Grand Ballroom East

- 10:30 102.001 Behavioral and Developmental Outcomes From Long Term Aripiprazole Treatment of Youth with Autism Spectrum Disorders. T. C. Bethea<sup>1,2</sup>, C. Alderman<sup>2</sup> and L. Sikich<sup>1,2</sup>, (1)Department of Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Department of Psychiatry, ASPIRE Research Program, UNC-CH, Chapel Hill, NC
- 10:45 102.002 Treatment of Behavior Problems Among School-Age Children with Autism Spectrum Disorders. J. Harrington<sup>1</sup>, K. Allen<sup>2</sup> and C. G. Cooke<sup>2</sup>, (1)General Academic Pediatrics, Children's Hospital of The King's Daughters, Norfolk, VA, (2)Department of Pediatrics, Eastern Virginia Medical School, Norfolk, VA
- 11:00 102.003 Project SEARCH for Adolescents with Autism Spectrum Disorders: Increasing Competitive Employment Opportunities Post-High School. S. Carr<sup>1</sup> and C. Schall<sup>2</sup>, (1)Virginia Commonwealth University Autism Center for Excellence, Richmond, VA, (2)Rehabilitation Research and Training Center, Virginia Commonwealth University Autism Center for Excellence, Richmond, VA
- 11:15 102.004 Effectiveness of Classroom Pivotal Response Teaching: A Pilot Study. A. C. Stahmer<sup>1,2</sup>, J. Suhrheinrich<sup>1,2</sup>, S. R. Reed<sup>1,2</sup> and L. Schreibman<sup>2</sup>, (1)Rady Children's Hospital, San Diego, San Diego, CA, (2)University of California – San Diego, La Jolla, CA
- 11:30 102.005 Randomized Controlled Trial of Group Parent Education in Pivotal Response Treatment (PRT): Focus on Child Language Outcomes. M. B. Minjarez<sup>1</sup>, G. W. Gengoux<sup>2</sup>, K. L. Berquist<sup>2</sup>, J. M. Phillips<sup>2</sup>, T. W. Frazier<sup>3</sup> and A. Y. Hardan<sup>2</sup>, (1)Seattle Children's Hospital, Seattle, WA, (2)Stanford University School of Medicine/Lucile Packard Children's Hospital, Stanford, CA, (3)Center for Autism and Center for Pediatric Behavioral Health, Cleveland Clinic, Cleveland, OH
- 11:45 102.006 Exploring the Behavioral Profiles of Preschoolers with ASD Using Cluster Analysis within the Context of An Intervention Efficacy Trial. L. D. Johnson<sup>1</sup> and E. R. Monn, Educational Psychology, University of Minnesota, Minneapolis, MN

- 12:00 102.007 A Pilot Randomized Control Trial of the Functional Behavioural Skills Training Group for Young Nonverbal Children with Severe Autism. J. A. Reitzel<sup>1</sup>, J. Summers<sup>2</sup>, L. Zwaigenbaum<sup>3</sup>, P. Szatmari<sup>4</sup>, E. Duku<sup>4</sup> and S. Georgiades<sup>4</sup>, (1)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada, (2)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada, (3)University of Alberta, Edmonton, AB, Canada, (4)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada

- 12:15 102.008 Efficacy of Adapted Responsive Teaching for Infants At Risk for ASD. G. T. Baranek<sup>1</sup>, L. R. Watson<sup>2</sup>, L. T. Brown<sup>3</sup>, S. H. Field<sup>4</sup>, E. Crais<sup>2</sup>, L. Wakeford<sup>5</sup> and L. M. Little<sup>6</sup>, (1)Allied Health Sciences, University of North Carolina, Chapel Hill, NC, (2)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (3)CIDDD, University of North Carolina, Chapel Hill, NC, (4)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Division of Occupational Science, University of North Carolina, Chapel Hill, NC, (6)University of North Carolina, Chapel Hill, NC

**Oral Sessions**

**103 - Clinical Phenotype: Assessing Diagnostic Criteria**

10:30 AM - 12:30 PM - Grand Ballroom West

- 10:30 103.001 Phenotypic Profiles of Children with and without An Autism Spectrum Disorder in the Study to Explore Early Development. L. D. Wiggins<sup>1</sup>, S. E. Levy<sup>2</sup>, A. M. Reynolds<sup>3</sup>, L. A. Schieve<sup>4</sup>, S. Hepburn<sup>5</sup>, L. C. Lee<sup>6</sup>, C. E. Rice<sup>4</sup>, J. L. Daniels<sup>7</sup>, L. A. Croen<sup>8</sup>, E. Giarelli<sup>9</sup>, C. Robinson<sup>10</sup>, C. DiGuseppi<sup>11</sup>, L. Blaskey<sup>2</sup>, L. Young<sup>12</sup>, M. Yeargin-Allsopp<sup>13</sup>, J. A. Pinto-Martin<sup>14</sup>, P. A. Thompson<sup>15</sup>, M. C. Souders<sup>16</sup> and D. E. Schendel<sup>13</sup>, (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Colorado Denver, Aurora, CO, (4)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (5)University of Colorado / JFK Partners, Aurora, CO, (6)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7)University of North Carolina, Chapel Hill, NC, (8)Kaiser Permanente, Division of Research, Oakland, CA, (9)School of Nursing, University of Pennsylvania, Philadelphia, PA, (10)University of Colorado Denver School of Medicine, Aurora, CO, (11)University of Colorado Denver, Aurora, CO, (12)University of Pennsylvania, School of Nursing, Philadelphia, PA, (13)Centers for Disease Control and Prevention, Atlanta, GA, (14)University of Pennsylvania School of Nursing and School of Medicine, Philadelphia, PA, (15)Michigan State University, East Lansing, MI, (16)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

- 10:45 103.002 A National Study of Autistic Symptoms in the General Population of School Age Children and Those Diagnosed with Autism Spectrum Disorder (ASD). S. Goldstein<sup>1</sup>, J. Naglieri<sup>2</sup> and K. M. Williams<sup>3</sup>, (1)Psychiatry, University of Utah School of Medicine, Salt Lake City, UT, (2)Psychology, George Mason University, Fairfax, VA, (3)Multi-Health Systems, Inc., Toronto, ON, Canada
- 11:00 103.003 Demographic and Clinical Correlates of Proposed DSM-5 Autism Symptom Domains and Diagnosis. R. A. Embacher<sup>1</sup>, T. W. Frazier<sup>2</sup>, E. A. Youngstrom<sup>3</sup>, A. Y. Hardan<sup>4</sup>, J. N. Constantino<sup>5</sup>, P. A. Law<sup>6</sup>, R. Findling<sup>7</sup> and C. Eng<sup>8</sup>, (1)Cleveland Clinic Center for Autism, Cleveland, OH, (2)Cleveland Clinic, Cleveland, OH, (3)Psychology, University of North Carolina, Chapel Hill, NC, (4)Department of Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (5)Washington University School of Medicine, Saint Louis, MO, (6)Kennedy Krieger Institute, Baltimore, MD, (7)University Hospitals Case Medical Center, Cleveland, OH, (8)Genomic Medicine Institute, Cleveland Clinic, Cleveland, OH
- 11:15 103.004 An Examination of the Proposed DSM-V Criteria for ASD. A. Taheri<sup>1</sup> and A. Perry<sup>2,3,4</sup>, (1)Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada, (3)Department of Psychology, York University, Toronto, ON, Canada, (4)TRE-ADD (Treatment, Research, and Education for Autism and Developmental Disorders), Thistleton Regional Center, Toronto, ON, Canada
- 11:30 103.005 Factor Analysis of DSM-IV, DSM-5, and Other Models of Symptom Structure in Toddlers with Autism Spectrum Disorder. W. Guthrie<sup>1</sup>, V. P. Reinhardt<sup>1</sup>, L. B. Swineford<sup>2</sup>, C. E. Nottke<sup>2</sup>, C. E. Lord<sup>3</sup> and A. M. Wetherby<sup>2</sup>, (1)Department of Psychology, Florida State University, Tallahassee, FL, (2)Florida State University Autism Institute, Tallahassee, FL, (3)Weill Cornell Medical College, White Plains, NY
- 11:45 103.006 Stability and Predictors of the Developmental Course of ASD From Childhood to Adolescence. S. C. Louwse<sup>1</sup>, M. L. Eussen<sup>1,2</sup>, P. de Nijs<sup>1</sup>, A. R. Gool<sup>3</sup>, F. Verheij<sup>1</sup>, F. C. Verhulst<sup>1</sup> and K. Greaves-Lord<sup>1,4</sup>, (1)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC - Sophia's Children's Hospital, Rotterdam, Netherlands, (2)Yulius, Dordrecht, Netherlands, (3)Yulius, Rotterdam, Netherlands, (4)Academie, Yulius, Rotterdam, Netherlands
- 12:00 103.007 Investigating Phenotypic Heterogeneity in Children with Autism Spectrum Disorder: A Factor Mixture Modelling Approach. S. Georgiades<sup>1</sup>, P. Szatmari<sup>1</sup>, M. Boyle<sup>1</sup>, S. Hanna<sup>1</sup>, E. Duku<sup>1</sup>, L. Zwaigenbaum<sup>2</sup>, S. E. Bryson<sup>3</sup>, E. Fombonne<sup>4</sup>, J. Volden<sup>2</sup>, P. Mirenda<sup>5</sup>, I. M. Smith<sup>3</sup>, W. Roberts<sup>6</sup>, T. Vaillancourt<sup>7</sup>, C. Waddell<sup>8</sup>, T. Bennett<sup>1</sup> and A. Thompson<sup>1</sup>, (1)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (2)University of Alberta, Edmonton, AB, Canada, (3)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (4)Montreal Children's Hospital, Montreal, QC, Canada, (5)University of British Columbia, Vancouver, BC, Canada, (6)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)Simon Fraser University, Vancouver, BC, Canada

- 12:15 103.008 The Autism Mental Status Exam: Sensitivity and Specificity Using Consensus Diagnosis. D. Grodberg<sup>1</sup>, P. M. Weinger<sup>2</sup>, L. V. Soorya<sup>1</sup>, A. Kolevzon<sup>1</sup> and J. D. Buxbaum<sup>1</sup>, (1)Psychiatry, Mount Sinai School of Medicine, New York, NY, (2)Mount Sinai School of Medicine, New York, NY

Oral Sessions

104 - Biological Mechanisms & Animal Models

10:30 AM - 12:30 PM - Osgoode Ballroom East

- 10:30 104.001 Decreased Akt and Changes in Relative Levels of TrkB Isoforms in Autism. C. Nicolini<sup>1</sup> and M. Fahnestock<sup>2</sup>, (1)Graduate Program in Neuroscience, University of Trieste, Trieste, Italy, (2)Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada
- 10:45 104.002 Elevated Fetal Steroidogenic Activity in Autism. S. Baron-Cohen<sup>1</sup>, B. Auyeung<sup>1</sup>, B. Nørgaard-Pedersen<sup>2</sup>, D. M. Hougaard<sup>2</sup>, M. W. Abdallah<sup>2,3</sup>, L. Melgard<sup>2</sup>, A. Cohen<sup>2</sup>, L. Ruta<sup>1</sup> and M. V. Lombardo<sup>1</sup>, (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Department of Clinical Biochemistry and Immunology, Statens Serum Institute, Copenhagen, Denmark, (3)Department of Epidemiology, Aarhus University Faculty of Health Sciences, Aarhus C, Denmark
- 11:00 104.003 Is Prenatal Testosterone Exposure Associated with Early Vocabulary Development? A Prospective Cohort Study. L. P. Hollier<sup>1,2</sup>, E. Mattes<sup>1</sup>, M. T. Maybery<sup>2</sup>, J. A. Keelan<sup>3</sup>, M. Hickey<sup>4</sup> and A. Whitehouse<sup>1,2</sup>, (1)Telethon Institute for Child Health Research, Perth, Australia, (2)School of Psychology, University of Western Australia, Perth, Australia, (3)School of Women's and Infant's Health, University of Western Australia, Perth, Australia, (4)Department of Obstetrics and Gynecology, University of Melbourne, Melbourne, Australia
- 11:15 104.004 Impaired Development of Brain and Behavior in Mice with 16p11.2 Deletion Found in Autism. G. Horev<sup>1</sup>, R. Puzis and A. A. Mills, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
- 11:30 104.005 A Mouse Model for the Human Chromosome 16p11.2 Copy Number Variation. T. Portmann<sup>1,2</sup>, R. Mao<sup>1,2</sup>, P. Bader<sup>2,3</sup>, G. Panagiotakos<sup>1,2</sup>, M. Miller<sup>4</sup>, M. Shamloo<sup>5</sup> and R. E. Dolmetsch<sup>1,2</sup>, (1)Neurobiology, Stanford University, Stanford, CA, (2)School of Medicine, Stanford University, Stanford, CA, (3)Department of Molecular and Cellular Physiology, Stanford, CA, (4)Behavioral and Functional Neuroscience Laboratory, Stanford University, Stanford, CA, (5)Institute for Neuro-Innovation and Translational Neurosciences, Stanford University, Stanford, CA



- 11:45 104.006 Autism-Relevant Social Abnormalities and Cognitive Deficits in Engrailed-2 Knockout Mice. J. Brielmaier<sup>1</sup>, J. M. Senerth<sup>1</sup>, P. G. Matteson<sup>2</sup>, M. Genestine<sup>3</sup>, J. L. Silverman<sup>1</sup>, J. H. Millonig<sup>2,3</sup>, E. DiCicco-Bloom<sup>3,4</sup> and J. N. Crawley<sup>1</sup>, (1)NIMH/NIH, Bethesda, MD, (2)Center for Advanced Biotechnology & Medicine, Piscataway, NJ, (3)Neuroscience and Cell Biology, Robert Wood Johnson Medical School, Piscataway, NJ, (4)Pediatrics, Robert Wood Johnson Medical School, New Brunswick, NJ
- 12:00 104.007 Motor Abnormalities in Mice Lacking Major Isoforms of Shank3. Y. H. Jiang<sup>1</sup>, Pediatrics, Duke University, Durham, NC
- 12:15 104.008 Anatomical Phenotyping in the IntegrinB3 Mouse Model Related to Autism. J. Ellegood<sup>1</sup>, R. M. Henkelman and J. P. Lerch, Mouse Imaging Centre, The Hospital for Sick Children, Toronto, ON, Canada

Poster Sessions

105 - Animal Models

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 1 105.001 Absence of Engrailed 2 (En2), the Autism Spectrum Disorder (ASD) Associated Gene, Produces Developmental Changes in Hippocampal Neurogenesis and Apoptosis. M. Genestine<sup>1</sup>, L. Lin<sup>1</sup>, S. Prem<sup>1</sup>, Y. Jiang<sup>1</sup>, R. D. Dhiman<sup>1</sup>, J. C. Ho<sup>1</sup>, J. H. Millonig<sup>1,2</sup> and E. DiCicco-Bloom<sup>1,3</sup>, (1)Neuroscience and Cell Biology, Robert Wood Johnson Medical School, Piscataway, NJ, (2)Center for Advanced Biotechnology & Medicine, Piscataway, NJ, (3)Pediatrics, Robert Wood Johnson Medical School, New Brunswick, NJ
- 10:00 2 105.002 An mGluR5 Negative Allosteric Modulator Improves Social Deficits and Decreases Repetitive and Stereotyped Behaviors in Mouse Models of Autism. J. L. Silverman<sup>1</sup>, D. G. Smith<sup>2</sup>, S. J. Sukoff Rizzo<sup>2</sup>, M. N. Karras<sup>1</sup>, K. R. Fonesca<sup>2</sup>, D. L. Smith<sup>2</sup>, R. H. Ring<sup>2,3</sup> and J. N. Crawley<sup>1</sup>, (1)NIMH/NIH, Bethesda, MD, (2)Pfizer Global Research and Development, Groton, CT, (3)Autism Speaks, Princeton, NJ
- 11:00 3 105.003 Assessment of Structural Brain Differences in a Mouse Model of Autism Using Magnetic Resonance Imaging. B. A. Babineau<sup>1</sup>, J. Ellegood<sup>2</sup>, J. P. Lerch<sup>2</sup>, R. M. Henkelman<sup>2</sup> and J. N. Crawley<sup>1</sup>, (1)National Institute of Mental Health, Bethesda, MD, (2)Mouse Imaging Centre, The Hospital for Sick Children, Toronto, ON, Canada
- 9:00 4 105.004 New Touch Screen Technology for Evaluating Cognitive Flexibility in Mouse Models of Autism. P. T. Gastrell<sup>1</sup>, M. N. Karras<sup>1</sup>, M. Solomon<sup>2</sup>, J. L. Silverman<sup>1</sup> and J. N. Crawley<sup>1</sup>, (1)NIMH/NIH, Bethesda, MD, (2)Department of Psychiatry, MIND Institute, Imaging Research Center, Sacramento, CA

- 10:00 5 105.005 Behavioral Characterization of Heterogeneous Shank3 Homer Binding Domain Deletion Model of Autism. M. Koush<sup>1</sup>, S. Bangash<sup>2</sup>, P. F. Worley<sup>2</sup> and C. M. Powell<sup>3</sup>, (1)University of Texas Southwestern Medical Center, Dallas, TX, (2)Johns Hopkins University, Baltimore, MD, (3)The University of Texas Southwestern Medical Center, Dallas, TX
- 11:00 6 105.006 The Human AVPR1A BAC Transgenic Mouse: A Preclinical Model for Elucidating the Role of AVPR1A in Autism Spectrum Disorders. R. A. Charles<sup>1</sup>, N. Takahashi<sup>1</sup>, T. Sakurai<sup>1</sup>, L. Young<sup>2</sup> and J. D. Buxbaum<sup>1</sup>, (1)Psychiatry, Mount Sinai School of Medicine, New York, NY, (2)Emory University, Decatur, GA
- 9:00 7 105.007 Neuroanatomical Alterations in Conditional Met Mutant Mice. J. M. Smith<sup>1</sup>, J. Xu<sup>2</sup> and E. M. Powell<sup>2</sup>, (1)Program in Neuroscience, University of Maryland Baltimore, Baltimore, MD, (2)Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD
- 10:00 8 105.008 Maternal Immune Stimulation During Pregnancy Leads to a Pro-Inflammatory Phenotype in Offspring. M. Mandal<sup>1</sup>, R. Donnelly<sup>2,3</sup>, S. Elkabes<sup>4,5</sup> and N. M. Ponzio<sup>2,3</sup>, (1)UMDNJ - Graduate School of Biomedical Sciences, Newark, NJ, (2)Department of Pathology and Laboratory Medicine, UMDNJ - New Jersey Medical School, Newark, NJ, (3)Department of Pathology and Laboratory Medicine, UMDNJ - Graduate School of Biomedical Sciences, Newark, NJ, (4)Department of Neurology and Neuroscience, UMDNJ - New Jersey Medical School, Newark, NJ, (5)Department of Neurology and Neuroscience, UMDNJ - Graduate School of Biomedical Sciences, Newark, NJ
- 11:00 9 105.009 Animal Model of Autism Induced by Prenatal Exposure to Valproate: Changes in Hippocampal Glial Parameters. V. Bambini-Junior<sup>1</sup>, R. B. Silvestrin<sup>1</sup>, F. Galland<sup>1</sup>, L. D. Bobermin<sup>1</sup>, A. Quincozes-Santos<sup>1</sup>, R. T. Abib<sup>1</sup>, C. Batassini<sup>1</sup>, G. Brolese<sup>1</sup>, R. Riesgo<sup>2</sup> and C. Gottfried<sup>1</sup>, (1)Department of Biochemistry, Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil, (2)Universidade Federal do Rio Grande do Sul - Brasil, Porto Alegre, RS, Brazil
- 9:00 10 105.010 Animal Model of Autism Induced by Prenatal Exposure to Valproate: Behavioral Changes and Liver Parameters. G. Mueller de Melo<sup>1</sup>, V. Bambini-Junior<sup>1</sup>, L. Rodrigues<sup>2</sup>, G. Behr<sup>1</sup>, M. S. Michels<sup>1</sup>, M. Dutra<sup>1</sup>, G. D. Nunes<sup>1</sup>, G. Zanatta<sup>1</sup>, R. Riesgo<sup>3</sup> and C. Gottfried<sup>1</sup>, (1)Department of Biochemistry, Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil, (2)Department of Neurochemistry, University of São Paulo (USP), São Paulo, Brazil, (3)Universidade Federal do Rio Grande do Sul - Brasil, Porto Alegre, RS, Brazil
- 10:00 11 105.011 Investigation of Vocalization and Play Behavior in Juvenile Offspring of Maternal Immune Activated Female Mice. J. Schwartz<sup>1</sup>, M. Careaga, P. Ashwood and R. F. Berman, University of California, Davis, MIND Institute, Sacramento, CA



- 11:00 12 105.012 Effects of Environmental Enrichment on Autism-Related Behaviors in the BTBR T+Tf/J Mouse. S. E. Reynolds<sup>1,2</sup>, S. Cameron<sup>2</sup>, C. Mackiewicz<sup>2</sup>, A. Millette<sup>2</sup>, M. Urruela<sup>2</sup> and D. P. Devine<sup>2</sup>, (1)Virginia Commonwealth University, Richmond, VA, (2)University of Florida, Gainesville, FL
- 9:00 13 105.013 Sensory and Motor Behaviors in Rats Treated Postnatally with Sodium Valproate. S. E. Reynolds<sup>1</sup>, A. Millette<sup>2</sup> and D. P. Devine<sup>2</sup>, (1)Virginia Commonwealth University, Richmond, VA, (2)University of Florida, Gainesville, FL
- 10:00 14 105.014 A Rat Model of Sensory Integration Impairment for Therapeutic Drug Development: Autoradiographic Observations in Postmortem Brain. A. Mahendra<sup>1</sup>, J. Skefos<sup>1</sup>, M. Ghulam<sup>2</sup>, E. Levin<sup>3</sup> and M. Bauman<sup>1</sup>, (1)Anatomy & Neurobiology, Boston University School of Medicine, Boston, MA, (2)Boston University School of Medicine, Boston, MA, (3)Psychiatry & Behavioral Sciences, Duke Institute for Brain Sciences, Durham, NC
- 11:00 15 105.015 Glial Activation in a Mouse Model of Fragile X Syndrome. L. K. K. Pacey<sup>1</sup>, S. Guan, I. Xuan and D. R. Hampson, University of Toronto, Toronto, ON, Canada
- 9:00 16 105.016 Risperidone Alleviates a Probabilistic Reversal Learning Deficit in the BTBR T+ Tf/J Mouse. D. A. Amodeo<sup>1</sup>, J. A. Sweeney<sup>2</sup> and M. E. Ragozzino<sup>1</sup>, (1)Psychology, University of Illinois, Chicago, IL, (2)Center for Cognitive Medicine, University of Illinois, Chicago, IL
- 10:00 17 105.017 Defects of Lipid Signalling in Early Neuronal Development and the Implications in Autism Spectrum Disorders. R. Bhogal<sup>1,2</sup>, H. Li<sup>3</sup> and D. A. Crawford<sup>1,2,3</sup>, (1)Department of Biology, York University, Toronto, ON, Canada, (2)Neuroscience Graduate Diploma Program, York University, Toronto, ON, Canada, (3)School of Kinesiology and Health Science, York University, Toronto, ON, Canada
- 11:00 18 105.018 Further Behavioral Characterization of An Inbred Mouse Model of Restricted, Repetitive Behavior. A. M. Muehlmann<sup>1</sup>, A. Mihalik, D. Koppuzha and M. H. Lewis, University of Florida, Gainesville, FL
- 9:00 19 105.019 The Use of Drosophila to Study ASD Candidate Gene Function. S. Q. Mehta<sup>1</sup>, K. S. Pappu<sup>2</sup> and L. Zipursky<sup>2</sup>, (1)Division of Child and Adolescent Psychiatry, Semel Institute/UCLA, Los Angeles, CA, (2)Biological Chemistry, HHMI/UCLA, Los Angeles, CA
- 10:00 20 105.020 The Temporal Relationship of Behavioural, Neuropathological and Lipid Fluctuations Following a Single Intraventricular Infusion of Propionic Acid in Rats. S. Holbrook<sup>1</sup>, F. Boon, A. R. Taylor, R. H. Thomas, L. J. Tichenoff, M. Kavaliers, K. P. Ossenkopp and D. F. MacFabe, The Kilee Patchell-Evans Autism Research Group, Dept. of Psychology, University of Western Ontario, London, ON, Canada
- 11:00 21 105.021 The Enteric Bacterial Metabolite Propionic Acid Alters Brain and Plasma Intact Phospholipid Molecular Species: Implications In Autism Spectrum Disorders. R. H. Thomas<sup>1,2</sup>, M. M. Meeking<sup>3</sup>, J. Mephram<sup>1</sup>, L. J. Tichenoff<sup>1</sup>, F. Possmayer<sup>4</sup> and D. F. MacFabe<sup>1,5,6</sup>, (1)The Kilee Patchell-Evans Autism Research Group, Dept. of Psychology, University of Western Ontario, London, ON, Canada, (2)Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, Canada, (3)Psychology, University of Western Ontario, London, ON, Canada, (4)Obstetrics/Gynecology and Biochemistry,, University of Western Ontario, London, ON, Canada, (5)The Kilee Patchell-Evans Autism Research Group, University of Western Ontario, London, ON, Canada, (6)The Kilee Patchell-Evans Autism Research Group, Departments of Psychology/Psychiatry, Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, Canada
- 9:00 22 105.022 Acyl-Carnitine Abnormalities In Autistic Children Parallel Abnormalities In A Rodent Model of Autism. D. F. MacFabe<sup>1</sup>, R. H. Thomas<sup>2</sup> and R. E. Frye<sup>3</sup>, (1)The Kilee Patchell-Evans Autism Research Group, Departments of Psychology/Psychiatry, Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, Canada, (2)The Kilee Patchell-Evans Autism Research Group, Dept. of Psychology, University of Western Ontario, London, ON, Canada, (3)Department of Pediatrics, Arkansas Children's Hospital Research Institute, Little Rock, AR
- 10:00 23 105.023 Prenatal Exposure to Propionic Acid and Lipopolysaccharide Produces Developmental Delay, Anxiety-Like Behavior, and Hyper-Sensitivity to Acoustic Startle in Adolescent Rats. K. A. Foley<sup>1</sup>, M. Kavaliers<sup>1</sup>, K. P. Ossenkopp<sup>2</sup> and D. F. MacFabe<sup>1</sup>, (1)The Kilee Patchell-Evans Autism Research Group, University of Western Ontario, London, ON, Canada, (2)The Kilee Patchell-Evans Autism Research Group, Dept. of Psychology, University of Western Ontario, London, ON, Canada
- 11:00 24 105.024 Time Course of Propionic Acid Induced Lipid, Neuroinflammatory and Cognitive Deficits In the Morris Water Maze-Further Development of A Novel Rodent Model of Autism. J. Mephram<sup>1</sup>, F. Boon, A. R. Taylor, R. H. Thomas, D. P. Cain, K. P. Ossenkopp and D. F. MacFabe, The Kilee Patchell-Evans Autism Research Group, Dept. of Psychology, University of Western Ontario, London, ON, Canada
- 9:00 25 105.025 Intraventricular Enteric Short Chain Fatty Acid Infusions in Rats Induce Behavioural, Neuropathological, Lipid and Epigenetic Changes Consistent with Autism. B. B. Nankova<sup>1</sup>, E. LaGamma<sup>1</sup>, A. R. Taylor<sup>2</sup>, L. J. Tichenoff<sup>1</sup> and D. F. MacFabe<sup>3</sup>, (1)Westchester Medical Centre, New York Medical College, Valhalla, NY, (2)The Kilee Patchell-Evans Autism Research Group, Dept. of Psychology, University of Western Ontario, London, ON, Canada, (3)The Kilee Patchell-Evans Autism Research Group, Departments of Psychology/Psychiatry, Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, Canada

Poster Sessions

106 - Brain Imaging: Functional

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 26 106.026 Making Tough Decisions: The Neural Correlates of Categorization in Children with and without Autism. D. L. Williams<sup>1</sup>, E. J. Carter<sup>2,3</sup>, J. F. Lehman<sup>4</sup> and N. J. Minshew<sup>5</sup>, (1)Speech-Language Pathology, Duquesne University, Pittsburgh, PA, (2)Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, (3)Psychology, Carnegie Mellon University, Pittsburgh, PA, (4)Computer Science, Carnegie Mellon University, Pittsburgh, PA, (5)Psychiatry & Neurology, University of Pittsburgh, Pittsburgh, PA
- 10:00 27 106.027 Dynamic Stimuli in a Social Incentive Delay Task: Examining the Need for More Ecologically Valid Stimulus Sets in ASD Reward Research. M. T. Perino<sup>1</sup>, V. Troiani<sup>1,2</sup>, E. Price<sup>1</sup>, J. M. Taylor<sup>3</sup>, S. J. Cayless<sup>1</sup>, E. N. Madva<sup>1</sup>, M. E. Riley<sup>1</sup>, S. Faja<sup>4</sup>, J. D. Herrington<sup>1</sup>, R. T. Schultz<sup>1,5</sup> and G. Kohls<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Neuroscience, University of Pennsylvania, Philadelphia, PA, (3)Department of Psychological & Brain Sciences, Dartmouth College, Hanover, NH, (4)University of Washington, Seattle, WA, (5)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA
- 11:00 28 106.028 Processing of Image Categories Prior to Awareness in Children with Autism Spectrum Disorder. V. Troiani<sup>1,2</sup>, E. Price<sup>2</sup> and R. T. Schultz<sup>2,3</sup>, (1)Neuroscience, University of Pennsylvania, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA
- 9:00 29 106.029 Atypical Development of Visual Processing During Adolescence in Autism. K. O'Hearn<sup>1</sup>, Pittsburgh, PA
- 10:00 30 106.030 Modulation of Inhibition Processing by Serotonin in Autism: An fMRI Study with Acute Tryptophan Depletion. E. Daly<sup>1</sup>, K. Rubia<sup>2</sup>, C. Ecker<sup>1</sup>, C. M. Murphy<sup>1</sup>, Q. Deeley<sup>1</sup> and D. G. Murphy<sup>1</sup>, (1)Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (2)Department of Child and Adolescent Psychiatry, King's College London, Institute of Psychiatry, London, United Kingdom
- 11:00 31 106.031 Functional Brain Maturation of Attention and Temporal Discounting in Children and Adults with ASD: An fMRI Investigation. C. M. Murphy<sup>1</sup>, A. Christakou<sup>2,3</sup>, E. M. Daly<sup>4</sup>, C. Ecker<sup>5</sup>, P. Johnston<sup>6</sup>, A. Smith<sup>7</sup>, V. Giampetro<sup>8</sup>, M. J. Brammer<sup>9</sup>, D. M. Robertson<sup>10</sup>, D. Spain<sup>6</sup>, M. Aims<sup>11</sup>, D. G. Murphy<sup>5</sup> and K. Rubia<sup>7</sup>, (1)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (2)Dept of Child Psychiatry, King's College London, Institute of Psychiatry, London, United Kingdom, (3)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (4)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (5)Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (7)Department of Child and Adolescent Psychiatry, King's College London, Institute of Psychiatry, London, United Kingdom, (8)Dept of Neuroimaging, King's College London, Institute of Psychiatry, London, United Kingdom, (9)Dept of Neuroimaging, King's College London, Institute of Psychiatry, London, United Kingdom, (10)Behavioural and Developmental Clinical Academic Group, South London and Maudsley NHS Trust, London, United Kingdom, (11)Institute of Psychiatry, University of Oxford; University of Cambridge, London, United Kingdom
- 9:00 32 106.032 The Neural Correlates of Impaired Visual Interference Control in Individuals with Autism Spectrum Disorder. S. E. Christ<sup>1</sup>, A. J. Moffitt<sup>1</sup>, L. E. Kester<sup>1</sup>, K. E. Bodner<sup>1</sup> and J. H. Miles<sup>2</sup>, (1)Psychological Sciences, University of Missouri, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 10:00 33 106.033 Differences in Neural Activation Associated with Visuomotor Sequence Learning in Autism. J. Muschelli<sup>1</sup>, B. S. Caffo<sup>2</sup>, J. J. Pekar<sup>3,4</sup> and S. H. Mostofsky<sup>3,4,5</sup>, (1)Biostatistics, Johns Hopkins School of Public Health, Baltimore, MD, (2)Johns Hopkins School of Public Health, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD, (4)Johns Hopkins School of Medicine, Baltimore, MD, (5)Johns Hopkins University School of Medicine, Baltimore, MD
- 11:00 34 106.034 fMRI Reveals Differences Between Neural Systems Recruited for Time Perception in Children with and without Autism. M. J. Allman<sup>1,2</sup>, S. E. Joel<sup>1,2,3</sup>, W. H. Meck<sup>4</sup>, J. J. Pekar<sup>1,2,3</sup>, M. F. Cataldo<sup>1,2</sup>, R. J. Landa<sup>1,5</sup>, S. H. Mostofsky<sup>1,2</sup> and M. B. Denckla<sup>1,2</sup>, (1)Johns Hopkins University School of Medicine, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)F. M. Kirby Research Center for Functional Brain Imaging, Baltimore, MD, (4)Department of Psychology and Neuroscience, Duke University, Durham, NC, (5)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD
- 9:00 35 106.035 Functional Brain Networks in Autism Spectrum Disorder in Different Attentional States. P. Barttfeld<sup>1</sup>, B. Wicker<sup>2</sup>, S. Cukier<sup>3</sup>, S. Navarta<sup>1</sup>, J. Calvar<sup>3</sup>, R. Leiguarda<sup>3</sup> and M. Sigman<sup>1</sup>, (1)Laboratorio de Neurociencia Integrativa, Physics Department, Buenos Aires, Argentina, (2)Mediterranean Institute of Cognitive Sciences, Aix-Marseille University, Marseille, France, (3)FLENI, Buenos Aires, Argentina
- 10:00 36 106.036 Searching for Neuronal Markers of Verbal Proficiency in Autism. A. Di Martino<sup>1</sup>, C. Kelly<sup>1</sup>, M. Mennes<sup>1</sup>, R. L. Grzadzinski<sup>1</sup>, A. Schvarcz<sup>1</sup>, D. Levy<sup>1</sup>, N. Adamo<sup>1</sup>, J. Raithel<sup>1</sup>, J. Rodman<sup>1</sup>, M. Garcia-Garcia<sup>1</sup>, E. Denio<sup>1</sup>, E. Petkova<sup>2,3</sup>, C. E. Lord<sup>4</sup>, F. X. Castellanos<sup>1,3</sup> and M. P. Milham<sup>3,5</sup>, (1)Child Study Center at the NYU Langone Medical Center, Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience, New York, NY, (2)Division of Biostatistics, NYU Child Study Center, New York, NY, (3)Nathan Kline Institute for Psychiatric Research, Orangeburg, NY, (4)Institute for Brain Development, Weill Cornell Medical College, White Plains, NY, (5)Child Mind Institute, Center for the Developing Brain, NY, NY
- 11:00 37 106.037 Greater Right Hemisphere Recruitment in Response to Figurative Speech in Autism. H. M. Wadsworth<sup>1</sup> and R. K. Kana, University of Alabama, Birmingham, AL

- 9:00 38 106.038 Cerebro-Cerebellar Resting State Functional Connectivity for Motor and Prefrontal Networks in Adolescents with Autism Spectrum Disorders. A. J. Khan<sup>1</sup>, A. Nair<sup>2</sup>, C. L. Keown<sup>1</sup>, P. Shih<sup>3</sup>, B. Keehn<sup>4</sup> and R. A. Müller<sup>1</sup>, (1)Brain Development Imaging Lab, Department Psychology, San Diego State University, San Diego, CA, (2)San Diego State University / University of California, San Diego, San Diego, CA, (3)Neuroscience Department, Brown University, Providence, RI, (4)Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA
- 10:00 39 106.039 'Spoken Vs Sung'- Investigating Auditory Brain Networks in Children with Autism. M. Sharda<sup>1</sup> and N. C. Singh<sup>2</sup>, (1)National Brain Research Centre, Manesar, Gurgaon, India, (2)Computational Neuroscience and Neuroimaging, National Brain Research Centre, Manesar, Haryana, India
- 11:00 40 106.040 Disruption of Functional Organization within the Primary Motor Cortex in Children with Autism. M. B. Nebel<sup>1,2</sup>, S. E. Joel<sup>1,2</sup>, J. Muschelli<sup>1,3</sup>, A. D. Barber<sup>1,2</sup>, B. S. Caffo<sup>3</sup>, J. J. Pekar<sup>1,2</sup> and S. H. Mostofsky<sup>1,2</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD, (3)Johns Hopkins School of Public Health, Baltimore, MD
- 9:00 41 106.041 Visuomotor Impairment and Underlying Cortico-Cerebellar Dysfunctions in Individuals with Autism. M. W. Mosconi<sup>1</sup>, University of Texas Southwestern Medical Center, Dallas, TX
- 10:00 42 106.042 Oxytocin's Signature in Social Deficits of Patients with Autism Spectrum Disorders. E. Andari<sup>1</sup>, Yerkes National Primate Research Center, Center for Translational Social Neuroscience, Emory University, Emory, GA
- 11:00 43 106.043 Behavioral and Neural Assessment of Implicit and Explicit Social Cognition In Autism. I. Dziobek<sup>1</sup>, G. Rosenblau<sup>2</sup>, D. Kliemann<sup>2</sup>, H. Kappelhoff<sup>2</sup> and H. R. Heekeren<sup>2</sup>, (1)Freie Universität, Berlin, Germany, (2)Freie Universität, Berlin, Germany
- 9:00 44 106.044 Neuroendophenotype Discovery Using An fMRI Social Battery Task. A. Ahmed<sup>1</sup>, Yale Child Study Center, Yale University, New Haven, CT
- 10:00 45 106.045 Autobiographical and Social Memory Narratives in Autism: Delineating the Role of the Hippocampus and Amygdala. R. S. Brezis<sup>1</sup>, University of Chicago, Chicago, IL
- 11:00 46 106.046 Early Neural Network Activation During Emotional Face Processing in Adolescents with Autism. R. Leung<sup>1,2</sup>, H. Qureshi<sup>1</sup>, E. W. Pang<sup>3,4,5</sup>, M. L. Smith<sup>2,4,6,7</sup> and M. J. Taylor<sup>1,2,4,7</sup>, (1)Diagnostic Imaging, Hospital for Sick Children, Toronto, ON, Canada, (2)Psychology, University of Toronto, Toronto, ON, Canada, (3)Department of Paediatrics, University of Toronto, Toronto, ON, Canada, (4)Hospital for Sick Children Research Institute, Neurosciences and Mental Health Program, Hospital for Sick Children, Toronto, ON, Canada, (5)Neurology, Hospital for Sick Children, Toronto, ON, Canada, (6)Psychology, Hospital for Sick Children, Toronto, ON, Canada, (7)Pediatrics, University of Toronto, Toronto, ON, Canada
- 9:00 47 106.047 Neural Correlates of Gender Differences in Patients with High-Functioning Autism Spectrum Disorder During Empathy. K. Schneider<sup>1,2</sup>, C. Regenbogen<sup>1,2</sup>, K. D. Pauly<sup>1,2</sup>, A. Gossen<sup>1,2</sup>, D. Schneider<sup>1</sup>, L. Mevissen<sup>1</sup>, T. M. Michel<sup>1</sup>, R. Gur<sup>3</sup>, U. Habel<sup>1,2</sup> and F. Schneider<sup>1,2,3</sup>, (1)Psychiatry, Psychotherapy, and Psychosomatics, RWTH Aachen University, Aachen, Germany, (2)JARA Translational Brain Medicine, Aachen, Germany, (3)Psychiatry, Perelman School of Medicine and the Philadelphia Veterans Administration Medical Center, Philadelphia, PA
- 10:00 48 106.048 Social Responsiveness Correlates with Neural Response to Affective Touch: An fNIRS Study. L. C. Anderson<sup>1</sup>, R. H. Bennett, D. Z. Bolling, K. A. Pelphrey and M. D. Kaiser, Child Study Center, Yale University, New Haven, CT
- 11:00 49 106.049 Social Responsiveness Scale Predicts Activity in Limbic Regions for An Emotion Recognition Task. W. K. Lloyd<sup>1</sup>, J. H. G. Williams<sup>2</sup>, G. D. Waiter<sup>1</sup>, J. S. Lobmaier<sup>3</sup> and D. I. Perrett<sup>4</sup>, (1)Aberdeen Biomedical Imaging Centre, University of Aberdeen, Aberdeen, United Kingdom, (2)Mental Health, University of Aberdeen, Aberdeen, United Kingdom, (3)Universität Bern, Bern, Switzerland, (4)School of Psychology, University of St. Andrews, St. Andrews, United Kingdom
- 9:00 50 106.050 Reduced Inferior Frontal Cortex Response to Explicit Emotion Judgment in Autism. M. S. Moore<sup>1</sup>, B. Wicker<sup>2</sup> and R. K. Kana<sup>3</sup>, (1)The University of Alabama, Tuscaloosa, AL, (2)Mediterranean Institute of Cognitive Sciences, Aix-Marseille University, Marseille, France, (3)University of Alabama at Birmingham, Birmingham, AL
- 10:00 51 106.051 Cerebellar Activation Differentiates Children with Autism and Siblings in a Static Face Processing Task. R. I. Pillai<sup>1</sup>, J. Tirrell, E. S. MacDonnell, H. Seib, K. A. Pelphrey and B. C. Vander Wyk, Child Study Center, Yale University, New Haven, CT
- 11:00 52 106.052 Spared Brain Function During Mentalizing and Self-Representation in Females with Autism Spectrum Conditions. M. V. Lombardo<sup>1</sup>, M. C. Lai<sup>1</sup>, B. Chakrabarti<sup>2</sup>, A. N. Ruigrok<sup>2</sup>, E. T. Bullmore<sup>2</sup>, J. Suckling<sup>4</sup>, M. R. C. AIMS Consortium<sup>5</sup> and S. Baron-Cohen<sup>1</sup>, (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Centre for Integrative Neuroscience and Neurodynamics, University of Reading, Reading, United Kingdom, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (4)Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom, (5)University of Cambridge, King's College London, University of Oxford, Cambridge, United Kingdom
- 9:00 53 106.053 Optimal Face Network Localization in Autism: A Comparison of Two Methodologies. A. Browne<sup>1</sup>, V. Troiani<sup>1,2</sup> and R. T. Schultz<sup>1,3</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Neuroscience, University of Pennsylvania, Philadelphia, PA, (3)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA
- 10:00 54 106.054 Self Representation and Frontal Brain Structure in Children with ASD. N. H. Kim, D. P. Carmody and M. Lewis, Institute for the Study of Child Development, Robert Wood Johnson Medical School - UMDNJ, New Brunswick, NJ



- 11:00 55 106.055 Self-Related Representation in Individuals with High-Functioning Autism. H. Komeda<sup>1</sup>, H. Kosaka<sup>2</sup>, D. N. Saito<sup>3</sup>, Y. Mano<sup>3</sup>, T. Fujii<sup>3</sup>, H. Yanaka<sup>3</sup>, T. Munese<sup>3</sup> and H. Okazawa<sup>7</sup>, (1)Center for Cognitive Brain Imaging, Carnegie Mellon University, Pittsburgh, PA, (2)Department of Neuropsychiatry, Faculty of Medical Sciences, University of Fukui, Fukui, Japan, (3)Research and Education Program for Life Science, University of Fukui, Fukui, Japan, (4)Department of Psychology, Northwestern University, Evanston, IL, (5)Child Development Research Center, University of Fukui, Fukui, Japan, (6)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan, (7)Biomedical Imaging Research Center, University of Fukui, Fukui, Japan
- 9:00 56 106.056 Neural Connectivity in Young Adults with ASD: A Comparison of Brain Function During Theory of Mind and Resting State. J. Ren<sup>1</sup>, A. Smith-Collins<sup>1</sup>, J. Clayden<sup>2</sup>, C. Clark<sup>2</sup> and D. H. Skuse<sup>1</sup>, (1)Behavioural and Brain Sciences, Institute of Child Health, University College London, London, United Kingdom, (2)Imaging and Biophysics Unit, Institute of Child Health, University College London, London, United Kingdom
- 10:00 57 106.057 Autistic Traits Associated with Diminished Response to Affective Touch. A. C. Voos<sup>1</sup>, K. A. Pelphrey and M. D. Kaiser, Child Study Center, Yale University, New Haven, CT
- 11:00 58 106.058 Neural Representations of Personality Traits in Autism: An Investigation of Individual Differences. A. Mizuno<sup>1</sup>, D. L. Williams<sup>2</sup>, T. A. Keller<sup>1</sup> and M. A. Just<sup>1</sup>, (1)Center for Cognitive Brain Imaging, Carnegie Mellon University, Pittsburgh, PA, (2)Speech-Language Pathology, Duquesne University, Pittsburgh, PA
- 9:00 59 106.059 Temperament and Sensitivity for Social and Non-Social Reward in Adolescents with Autism Spectrum Disorders. L. Poustka<sup>1</sup>, C. Bach<sup>1</sup>, F. Nees<sup>2</sup>, S. Steiner<sup>1</sup>, D. Brandeis<sup>1</sup> and T. Banaschewski<sup>1</sup>, (1)Child and Adolescent Psychiatry and Psychotherapy, Central Institute of Mental Health, Mannheim, Germany, (2)Department of Cognitive and Clinical Neuroscience, Central Institute of Mental Health, Mannheim, Germany
- 10:00 60 106.060 Correlates of Complex Imitation Fidelity to Patterns of BOLD Signal Generated During An fMRI Study of Simple Imitation. L. Braadbaart<sup>1</sup>, J. H. G. Williams<sup>2</sup> and G. D. Waiter<sup>3</sup>, (1)University of Aberdeen, Aberdeen, United Kingdom, (2)Mental Health, University of Aberdeen, Aberdeen, United Kingdom, (3)Aberdeen Biomedical Imaging Centre, University of Aberdeen, Aberdeen, United Kingdom
- 11:00 61 106.061 Different Brain Responses to Different Actions: A New Paradigm to Study Action Comprehension in Autism. F. Riva<sup>1,2</sup>, K. A. Pelphrey<sup>2</sup>, D. Z. Bolling<sup>2</sup> and B. C. Vander Wyk<sup>2</sup>, (1)Department of Psychology, University of Milano-Bicocca, Milano, Italy, (2)Child Study Center, Yale University, New Haven, CT
- 9:00 62 106.062 Understanding the "How" and "Why" of Actions in Autism Spectrum Disorders: The Role of Mirroring and Mentalizing Systems. L. Libero<sup>1</sup>, F. de Lange<sup>2</sup> and R. K. Kana<sup>1</sup>, (1)University of Alabama, Birmingham, AL, (2)Donders Institute for Brain, Cognition and Behavior, Radboud University, Nijmegen, Netherlands
- 10:00 63 106.063 An fMRI Study of Observing Communicative and Directive Actions in High-Functioning Autism. T. J. Perkins<sup>1</sup>, J. A. McGillivray<sup>2</sup>, R. Bittar<sup>3</sup>, D. Flanagan<sup>4</sup> and M. A. Stokes<sup>5</sup>, (1)Melbourne, VIC, Australia, (2)Psychology, Deakin University, Burwood, Australia, (3)Precision Neurosurgery, Melbourne, Australia, (4)Melbourne Brain Centre, Melbourne, Australia, (5)School of Psychology, Deakin University, Burwood, Australia
- 11:00 64 106.064 A Functional MRI Study of Imitation and the Mirror Neuron System in ASD. S. Carrington<sup>1,2</sup> and A. J. Bailey<sup>2,3</sup>, (1)Tower Building, Park Place, Cardiff University, Cardiff, Wales, United Kingdom, (2)Department of Psychiatry, University of Oxford, Headington, Oxford, United Kingdom, (3)UBC Institute of Mental Health, University of British Columbia, Vancouver, BC, Canada
- 9:00 65 106.065 "I See What You're Saying." An fMRI Study of Speech-Gesture Integration in Autism and Typical Development. S. Lee<sup>1</sup>, M. Melnick<sup>2</sup> and L. Bennetto<sup>2</sup>, (1)University of Rochester School of Medicine & Dentistry, Rochester, NY, (2)University of Rochester, Rochester, NY
- 10:00 66 106.066 The Neural Basis of Action Understanding in Autism and Typical Development. J. Pokorny<sup>1</sup>, N. V. Hatt<sup>2</sup>, S. J. Rogers<sup>3,4,5</sup> and S. M. Rivera<sup>2,6</sup>, (1)The M.I.N.D. Institute, University of California at Davis Medical Center, Davis, CA, (2)University of California, Davis, CA, (3)University of California, Davis, Sacramento, CA, (4)UC Davis MIND Institute, Sacramento, CA, (5)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, (6)Psychology, U.C. Davis Center for Mind & Brain, MIND Institute, Davis, CA

Poster Sessions

107 - Brain Imaging: Resting State fMRI and Structural Imaging

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 67 107.067 Aberrant White Matter Development Underlies Atypical Visual Orienting At 6 Months in Prodromal Autism. J. T. Elison<sup>1,2</sup>, S. Paterson<sup>3</sup>, J. J. Wolff<sup>4</sup>, T. Handler<sup>5</sup>, K. Botteron<sup>6</sup>, R. T. Schultz<sup>3,7</sup>, J. Piven<sup>8,9</sup> and I. B. I. S. Network<sup>10</sup>, (1)University of North Carolina, Chapel Hill, NC, (2)California Institute of Technology, Pasadena, CA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Psychiatry, Washington University, St. Louis, MO, (6)Washington University School of Medicine, St. Louis, MO, (7)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA, (8)Psychiatry, University of North Carolina, Chapel Hill, NC, (9)The Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (10)Autism Center of Excellence, Chapel Hill, NC



- 10:00 68 107.068 Functional MRI Endophenotypes of Autism. M. D. Spencer<sup>1</sup>, R. J. Holt<sup>1</sup>, L. R. Chura<sup>1</sup>, J. Suckling<sup>2</sup>, A. J. Calder<sup>3</sup>, E. T. Bullmore<sup>4</sup> and S. Baron-Cohen<sup>1</sup>, (1)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom, (3)MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom, (4)Department of Psychiatry, Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom
- 11:00 69 107.069 Dual-Boot MRI for Multi-Site and Longitudinal Studies of Autism Under Stable Conditions. T. E. Conturo<sup>1</sup>, A. R. McMichael<sup>1</sup>, O. El-Ghazzawy<sup>1</sup>, S. G. Kim<sup>2</sup> and D. Purdy<sup>3</sup>, (1)Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO, (2)Department of Radiology, University of Pittsburgh, Pittsburgh, PA, (3)Siemens Medical Solutions, Houston, TX
- 9:00 70 107.070 Atypical Brain Responses to Illusory Auditory Pitch in Children with Autism. J. Brock<sup>1</sup> and B. W. Johnson, Centre for Cognition and its Disorders, Macquarie University, Sydney, Australia
- 10:00 71 107.071 A MEG Investigation of Phonological Processing in Autism. L. B. Wilson<sup>1</sup>, E. Slason<sup>1</sup>, B. E. Pasko<sup>1</sup>, K. L. McFadden<sup>1</sup>, S. Hepburn<sup>2</sup> and D. C. Rojas<sup>1</sup>, (1)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, (2)University of Colorado/JFK Partners, Aurora, CO
- 11:00 72 107.072 Abnormal Lateralization of Auditory Magnetic Fields Evoked by Clicks In Autism Spectrum Disorders (ASD). E. V. Orekhova<sup>1</sup>, A. V. Butorina<sup>2</sup>, M. M. Tsetlin<sup>2</sup>, S. I. Novikova<sup>2</sup>, M. Elam<sup>3</sup> and T. A. Stroganova<sup>2</sup>, (1)University of Gothenburg, Gothenburg, Sweden, (2)MEG Center, Moscow State University of Psychology and Education, Moscow, Russia, (3)Sahlgrenska University Hospital, Gothenburg, Sweden
- 9:00 73 107.073 An MEG Study of High-Frequency Brain Oscillations in Autism and First-Degree Relatives During Picture Naming. I. Buard<sup>1</sup>, E. Kronberg<sup>2</sup>, S. J. Rogers<sup>3</sup>, S. Hepburn<sup>4</sup> and D. C. Rojas<sup>2</sup>, (1)Department of Psychiatry, University of Colorado-Anschutz Medical Campus School of Medicine, Aurora, CO, (2)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, (3)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, (4)University of Colorado/JFK Partners, Aurora, CO
- 10:00 74 107.074 An MEG Study of Inhibition in Adolescents with Autism Spectrum Disorders. S. Varatharajah<sup>1,2,3</sup>, H. Qureshi<sup>2</sup>, E. W. Pang<sup>3,4</sup>, M. J. Taylor<sup>2,3</sup> and E. Anagnostou<sup>3,4,5</sup>, (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)The Hospital for Sick Children, Toronto, ON, Canada, (5)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada
- 11:00 75 107.075 Impact of Methodological Variables on Functional Connectivity MRI Findings for Autism Spectrum Disorders. A. Nair<sup>1</sup>, C. L. Keown<sup>2</sup>, M. C. Datko<sup>2</sup>, B. Keehn<sup>3</sup>, P. Shih<sup>4</sup> and R. A. Muller<sup>5</sup>, (1)San Diego State University/University of California, San Diego, CA, (2)Brain Development Imaging Lab, San Diego State University, San Diego, CA, (3)Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA, (4)Neuroscience Department, Brown University, Providence, RI, (5)San Diego State University, San Diego, CA
- 9:00 76 107.076 MEG Measures of Inhibition in Adults with Autism Spectrum Disorders. S. Varatharajah<sup>1,2,3</sup>, H. Qureshi<sup>2</sup>, K. A. R. Doyle-Thomas<sup>1</sup>, J. Vidal<sup>2</sup>, M. Batty<sup>4</sup>, E. W. Pang<sup>3,5</sup>, E. Anagnostou<sup>3,5,6</sup> and M. J. Taylor<sup>2,3</sup>, (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)Centre de PedoPsychiatrie, INSERM U930, Tours France, (5)The Hospital for Sick Children, Toronto, ON, Canada, (6)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada
- 10:00 77 107.077 Functional Connectivity in ASD with Pharmacological Modulation of the Beta-Adrenergic System. J. P. Hegarty<sup>1</sup>, A. Narayanan<sup>1,2</sup>, C. White<sup>2</sup>, A. Abduljalil<sup>2</sup>, P. Schmalbrock<sup>2</sup>, B. J. Ferguson<sup>1</sup>, C. R. McKinley<sup>1</sup> and D. Q. Beversdorf<sup>2</sup>, (1)University of Missouri, Columbia, Columbia, MO, (2)The Ohio State University, Columbus, OH, (3)Radiology, Neurology, Psychology, and Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 11:00 78 107.078 Increased Connectivity in Children with Autism Spectrum Disorders: Evidence Consistent with Poor Network Segregation. B. Yerys<sup>1</sup>, D. N. Abrams<sup>2</sup>, E. M. Gordon<sup>3</sup>, R. Weinblatt<sup>2</sup>, K. F. Jankowski<sup>4</sup>, J. F. Strang<sup>2</sup>, L. Kenworthy<sup>2</sup>, R. T. Schultz<sup>5</sup>, C. J. Vaidya<sup>3</sup> and W. D. Gaillard<sup>6</sup>, (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Georgetown University, Washington, DC, (4)University of Oregon, Eugene, OR, (5)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (6)Childrens National Medical Center, Washington, D.C.
- 9:00 79 107.079 Lack of Evidence for Neural Underconnectivity in High-Functioning Adults with Autism. D. P. Kennedy<sup>1</sup>, J. M. Tyszka, L. K. Paul and R. Adolphs, California Institute of Technology, Pasadena, CA
- 10:00 80 107.080 Local Functional Connectivity in ASD Is Reduced, Not Increased. S. Khan<sup>1</sup>, A. Gramfort<sup>1</sup>, N. Shetty<sup>1</sup>, J. M. Moran<sup>2</sup>, S. M. Lee<sup>2</sup>, J. D. E. Gabrieli<sup>2</sup>, B. M. Joseph<sup>3</sup>, H. Tager-Flusberg<sup>3</sup>, M. R. Herbert<sup>1</sup>, M. S. Hämäläinen<sup>1</sup> and T. Kenet<sup>1</sup>, (1)Massachusetts General Hospital, Charlestown, MA, (2)Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, (3)Department of Psychology, Boston University, Boston, MA

- 11:00 81 107.081 The Brain Connectome: A Multimodal Study of Discordant Monozygotic Autism Twins. K. Mevel<sup>1</sup>, P. Fransson<sup>2</sup>, P. Lichtenstein<sup>3</sup>, H. Anckarsäter<sup>4</sup>, H. Forsberg<sup>5</sup> and S. Bölte<sup>1</sup>, (1)Department of Women's and Children's Health, Astrid Lindgren Children's Hospital, Q2:07, Center of Neurodevelopmental Disorders (KIND), Karolinska Institute, Stockholm, Sweden, (2)Department of Clinical Neuroscience Retzius Väg 8, Building A2:3, Karolinska Institute, Stockholm, Sweden, (3)Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm, Sweden, (4)Department of Forensic Psychiatry, Institute of Neuroscience and Physiology, Sahlgren's Academy, University of Gothenburg, Gothenburg, Sweden, (5)Neuropediatric Research Unit, Department of Women's and Children's Health, Astrid Lindgren Children's Hospital Q2:07, Karolinska Institute, Stockholm, Sweden
- 9:00 82 107.082 Autism Risk Allele in PLAUR Is Associated with Reduced Structural Connectivity in ASD. D. Beck-Pancer<sup>1,2</sup>, J. D. Rudie<sup>1</sup>, L. M. Hernandez<sup>1,2</sup>, E. M. Kilroy<sup>1</sup>, P. M. Thompson<sup>3</sup>, P. Levitt<sup>4</sup>, D. H. Geschwind<sup>3</sup>, S. Y. Bookheimer<sup>2</sup> and M. Dapretto<sup>1,2</sup>, (1)Brain Mapping Center, University of California, Los Angeles, CA, (2)Department of Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, CA, (3)Department of Neurology, University of California, Los Angeles, CA, (4)Zilkha Neurogenetic Institute, Keck School of Medicine, University of Southern California, Los Angeles, CA
- 10:00 83 107.083 A Cerebral Spectrum From Autism to Dyslexia: Determining Cortical Surface Complexity Utilizing Spherical Harmonics. M. F. Casanova<sup>1</sup>, M. Nitzken<sup>2</sup>, E. L. Williams<sup>3</sup>, A. E. Switala<sup>1</sup> and A. S. El-Baz<sup>2</sup>, (1)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (2)Bioengineering, University of Louisville, Louisville, KY, (3)University of Louisville, Louisville, KY
- 11:00 84 107.084 ASD Geometric Responders: Toward a Biologically Meaningful Subgroup. S. Marinero<sup>1</sup>, K. Campbell, S. Solso, R. Hazin, E. Courchesne and K. Pierce, Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, La Jolla, CA
- 9:00 85 107.085 Cortical Morphology and Links to Resting-State Oscillatory Activity in Autism Spectrum Disorders. L. Cornew<sup>1</sup>, T. P. L. Roberts, J. McDaniel and J. C. Edgar, Lurie Family Foundations MEG Imaging Center, Department of Radiology, Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 86 107.086 Neuroanatomical Correlates of Cognitive Flexibility in Adolescents with Autism and the Broader Phenotype. R. J. Holt<sup>1</sup>, L. R. Chura<sup>1</sup>, A. M. Dean<sup>2</sup>, S. Baron-Cohen<sup>1</sup> and M. D. Spencer<sup>1</sup>, (1)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom
- 11:00 87 107.087 Decreased Gray Matter in Orbitofrontal and Superior Temporal Areas in Autism: A Voxel-Based Morphometry Study. A. J. Rozsa<sup>1</sup>, L. Libero, H. D. Deshpande, M. Morris and R. K. Kana, University of Alabama, Birmingham, AL
- 9:00 88 107.088 Mapping Cortical Anatomy in Young Children with Autism Using Surface Based Morphometry. A. Raznahan<sup>1</sup>, R. Lenroot<sup>2</sup>, A. Thurm<sup>3</sup>, M. Gozzi<sup>3</sup>, A. Hanley<sup>1</sup>, S. J. Spence<sup>4</sup>, S. Swedo<sup>3</sup> and J. Giedd<sup>1</sup>, (1)Child Psychiatry Lab, National Institute of Mental Health, Bethesda, MD, (2)University of New South Wales, Sydney, Australia, (3)Pediatrics & Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (4)Children's Hospital, Boston, MA
- 10:00 89 107.089 Preliminary Findings From a Longitudinal Examination of Brain Volume From 6 to 24 Months in Infants At High Familial Risk for Autism. H. C. Hazlett<sup>1</sup>, H. Gu<sup>2</sup>, M. Styner<sup>3</sup>, D. L. Collins<sup>4</sup>, V. Fonov<sup>5</sup>, G. Gerig<sup>6</sup>, K. Botteron<sup>7</sup>, S. R. Dager<sup>8</sup>, S. Paterson<sup>9</sup>, R. T. Schultz<sup>9,10</sup>, A. C. Evans<sup>4</sup>, J. Piven<sup>11,12</sup> and I. B. I. S. Network<sup>13</sup>, (1)Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, NC, (3)UNC, Chapel Hill, NC, (4)Montreal Neurological Institute, Montreal, QC, Canada, (5)Montreal Neurological Institute, Montreal, QC, (6)University of Utah, Salt Lake City, UT, (7)Washington University School of Medicine, St. Louis, MO, (8)University of Washington, Seattle, WA, (9)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (10)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA, (11)Psychiatry, University of North Carolina, Chapel Hill, NC, (12)The Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (13)Autism Center of Excellence, Chapel Hill, NC
- 11:00 90 107.090 Cortical Thickness in Adults with Autism. P. C. Regener<sup>1</sup>, L. S. McKay<sup>2</sup>, D. R. Simmons<sup>1</sup>, P. McAleer<sup>1</sup>, D. Marjoram<sup>1</sup>, J. Piggot<sup>3</sup> and F. E. Pollick<sup>1</sup>, (1)School of Psychology, University of Glasgow, Glasgow, United Kingdom, (2)Netherlands Institute for Neuroscience, Amsterdam, Netherlands, (3)Department of Psychiatry, University of Dundee, Dundee, United Kingdom
- 9:00 91 107.091 Self-Injurious Behaviours Are Associated with Alterations in the Somatosensory System in Children and Adolescents with Autism Spectrum Disorders: A Multimodal Brain Imaging Study. E. G. Duerden<sup>1</sup>, S. W. Roberts<sup>2,3</sup>, J. Villafuerte<sup>4</sup>, M. M. Chakravarty<sup>4</sup>, K. M. Mak-Fan<sup>1</sup>, J. P. Lerch<sup>5</sup> and M. J. Taylor<sup>1</sup>, (1)Department of Diagnostic Imaging, Hospital for Sick Children, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (4)Kimmel Family Translational Imaging-Genetics Laboratory, Research Imaging Centre, Centre for Addiction and Mental Health, Toronto, ON, Canada, (5)Mouse Imaging Centre, The Hospital for Sick Children, Toronto, ON, Canada

- 10:00 92 107.092 The Effect of Age and Symptom Severity On Brain Surface Area In Autism Spectrum Disorders. K. A. R. Doyle-Thomas<sup>1</sup>, A. Kushki<sup>2</sup>, E. G. Duerden<sup>3</sup>, M. J. Taylor<sup>3</sup>, J. P. Lerch<sup>4</sup>, L. V. Soorya<sup>5</sup>, A. T. Wang<sup>5</sup>, J. Fan<sup>6</sup> and E. Anagnostou<sup>2</sup>, (1)Bloorview Research Institute, Toronto, ON, Canada, (2)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Department of Diagnostic Imaging, Hospital for Sick Children, Toronto, ON, Canada, (4)Mouse Imaging Centre, The Hospital for Sick Children, Toronto, ON, Canada, (5)Psychiatry, Mount Sinai School of Medicine, New York, NY, (6)Psychiatry, Mount Sinai School of Medicine, New York, NY
- 11:00 93 107.093 Abnormal Brain Surface Morphology and Gyrfication Pattern in Children with Autism Spectrum Provides Clues to Prenatal Onset. G. Fung<sup>1</sup>, S. E. Chua<sup>1</sup>, P. Chan<sup>2</sup>, K. Yu<sup>1</sup>, C. Wong<sup>1</sup>, C. Tang<sup>1</sup>, A. Lam<sup>2</sup>, P. L. Khong<sup>3</sup>, H. Mak<sup>3</sup>, C. Cheung<sup>1</sup> and G. M. McAlonan<sup>1,4</sup>, (1)Department of Psychiatry, University of Hong Kong, Hong Kong, (2)Queen Mary Hospital, Hospital Authority, Hong Kong, (3)Department of Radiology, University of Hong Kong, Hong Kong, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom
- 9:00 94 107.094 Age-Related Differences in Optic Nerve Geometry in Autism Spectrum – a Potential Imaging Marker?. C. Cheung<sup>1</sup>, C. P. W. Tsang<sup>1</sup>, G. Fung<sup>1</sup>, S. E. Chua<sup>1,2</sup> and G. M. McAlonan<sup>3,4</sup>, (1)Department of Psychiatry, University of Hong Kong, Hong Kong, (2)State Key Laboratory for Brain and Cognitive Sciences, Hong Kong, (3)King's Academic Health Care Partners, Behavioural and Developmental Disorders Clinical Academic Group, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom
- 10:00 95 107.095 Imaging Radial Cortical Anisotropy to Measure Microstructure of the Cortex in Autism: A Novel Method for the Detection of Early Brain Changes. R. M. McKavanagh and S. A. Chance, Dept of Clinical Neurosciences, Neuroanatomy & Cognition Group, University of Oxford, Oxford, United Kingdom
- 11:00 96 107.096 Analysis of High Quality Diffusion Tensor Imaging in Young Children with Autism. L. Walker<sup>1,2</sup>, M. Gozzi<sup>3</sup>, A. Thurm<sup>3</sup>, B. Behseta<sup>3</sup>, R. Lenroot<sup>4</sup>, S. Swedo<sup>3</sup> and C. Pierpaoli<sup>1</sup>, (1)PPITS/STBB/NICHD/NIH, Bethesda, MD, (2)CNRM, USUHS, Bethesda, MD, (3)National Institutes of Health - National Institute of Mental Health, Bethesda, MD, (4)University of New South Wales, Sydney, Australia
- 9:00 97 107.097 Associations Between White Matter Integrity and Anxiety Symptoms in Children with Autism Spectrum Disorders. L. E. Bradstreet<sup>1</sup>, H. Eavani<sup>1</sup>, L. Berry<sup>1</sup>, I. Gisman<sup>1</sup>, R. T. Schultz<sup>1,2</sup> and J. D. Herrington<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA
- 10:00 98 107.098 Correlation Between Gyral Window and Corpus Callosum: An MRI Study. B. A. Dombroski<sup>1</sup>, A. E. Switala<sup>2</sup>, A. S. El-Baz<sup>3</sup> and M. F. Casanova<sup>4</sup>, (1)Department of Anatomical Sciences & Neurobiology, University of Louisville, Louisville, KY, (2)Department of Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (3)Bioengineering, University of Louisville, Louisville, KY, (4)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY
- 11:00 99 107.099 Investigating Superficial White Matter Connections Using Diffusion Tensor Tractography. S. H. Ameis<sup>1,2</sup>, C. Rockel<sup>3,4</sup>, T. Cunningham<sup>5</sup>, F. Liu<sup>6</sup>, N. Law<sup>7</sup>, R. J. Schachar<sup>8</sup> and D. Mabbott<sup>9</sup>, (1)University of Toronto, Toronto, ON, Canada, (2)Psychiatry, The Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, (3)Haematology/Oncology, The Hospital for Sick Children, Toronto, ON, Canada, (4)Biomedical Engineering, McMaster University, Hamilton, ON, Canada, (5)Psychology, The Hospital for Sick Children, Toronto, ON, Canada, (6)Sick Kids Research Institute, The Hospital for Sick Children, Toronto, ON, Canada, (7)Neuroscience and Mental Health, The Hospital for Sick Children, Toronto, ON, Canada, (8)Neurosciences and Mental Health Psychiatry Dept., The Hospital for Sick Children, Toronto, ON, Canada, (9)Pediatric Brain Tumour Program, Haematology/Oncology, The Hospital for Sick Children, Toronto, ON, Canada
- 9:00 100 107.100 Atypical Relation Between Age and Measures of White Matter Diffusivity in Children with An Autism Spectrum Disorder (ASD). K. M. Mak-Fan<sup>1</sup>, D. J. Morris<sup>2</sup>, J. Vidal<sup>3</sup>, E. Anagnostou<sup>4,5</sup>, W. Roberts<sup>6,7</sup> and M. J. Taylor<sup>8,9,10</sup>, (1)University of Toronto, Toronto, ON, Canada, (2)Diagnostic Imaging, SickKids Hospital, Toronto, ON, Canada, (3)Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada, (4)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (5)The Hospital for Sick Children, Toronto, ON, Canada, (6)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (7)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (8)Department of Diagnostic Imaging, Hospital for Sick Children, Toronto, ON, Canada, (9)Hospital for Sick Children Research Institute, Neurosciences and Mental Health Program, Hospital for Sick Children, Toronto, ON, Canada, (10)Psychology, University of Toronto, Toronto, ON, Canada
- 10:00 101 107.101 Longitudinal DTI of the Corpus Callosum in Individuals with Autism Spectrum Disorder: Differences in Fractional Anisotropy. A. Alexander<sup>1</sup>, B. G. Travers<sup>2</sup>, N. Adluru<sup>3</sup>, N. Lange<sup>4</sup>, C. Ennis<sup>5</sup>, P. T. Fletcher<sup>6</sup>, M. B. DuBray<sup>7</sup>, A. Froehlich<sup>8</sup> and J. E. Lainhart<sup>9</sup>, (1)Psychiatry, University of Wisconsin, Madison, WI, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI, (3)Waisman Center, University of Wisconsin, Madison, WI, (4)Psychiatry, Harvard University, Cambridge, MA, (5)University of Wisconsin, Madison, WI, (6)School of Computing, University of Utah, SLC, UT, (7)Interdepartmental Program in Neuroscience, University of Utah, Salt Lake City, UT, (8)University of Utah, Salt Lake City, UT, (9)Psychiatry, University of Utah, Salt Lake City, UT



- 11:00 102 107.102 Structural White Matter Abnormalities in Children and Adolescents with High-Functioning Autism Spectrum Disorders. C. Cullell<sup>1</sup>, M. Rosa<sup>2</sup>, O. Puig<sup>1,2</sup>, V. Sánchez<sup>1,2</sup>, L. Lázaro<sup>1,2</sup> and R. Calvo<sup>1,2</sup>, (1)CIBERSAM, Barcelona, Spain, (2)Department of Child and Adolescent Psychiatry and Psychology, Hospital Clínic de Barcelona, Barcelona, Spain
- 9:00 103 107.103 DSM Through the Looking Glass: Corpus Callosum Volume in High-Functioning Autism and Asperger Syndrome. L. R. Chura<sup>1</sup>, D. L. Floris<sup>1</sup>, R. J. Holt<sup>1</sup>, S. Baron-Cohen<sup>1</sup> and M. D. Spencer<sup>1</sup>, Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom
- 10:00 104 107.104 Is Myelin Content Altered In Young Adults with Autism?. J. Zinkstok<sup>1</sup>, S. Kolind<sup>2</sup>, V. D'Almeida<sup>2,3</sup>, A. Shahidiani<sup>2,3</sup>, S. C. Williams<sup>1,2</sup>, D. G. Murphy<sup>4</sup> and S. C. Deoni<sup>2</sup>, (1)Institute of Psychiatry, King's College, London, United Kingdom, (2)Centre for Neuroimaging Sciences, King's College, London, United Kingdom, (3)Forensic and Developmental Neuroscience, Institute of Psychiatry, King's College, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, King's College, Institute of Psychiatry, London, United Kingdom
- 11:00 105 107.105 Macrocephalic Individuals with Autism Have Increased White Matter Whereas Normocephalic Individuals with Autism Exhibit Preserved Volumes. R. J. Jou<sup>1,2</sup>, K. A. DeBenedictis<sup>2</sup>, D. M. DePedro<sup>2</sup>, I. Y. Murphy<sup>2</sup> and K. A. Pelphrey<sup>2</sup>, (1)Investigative Medicine Program, Yale University Graduate School of Arts & Sciences, New Haven, CT, (2)Yale University, Child Study Center, New Haven, CT
- 9:00 106 107.106 Glutamate Dysfunction in the Basal Ganglia of Autism Spectrum Disorders : An MRS Study. Y. Yoshihara<sup>1</sup>, G. Sugihara<sup>2</sup>, A. Ishizuka<sup>3</sup>, H. Yogo<sup>3</sup>, K. Nakamura<sup>4</sup>, T. Sugiyama<sup>5</sup>, K. Matsumoto<sup>2</sup>, K. J. Tsuchiya<sup>2</sup>, K. Suzuki<sup>2</sup>, N. Takei<sup>2</sup>, M. Tsujii<sup>6</sup> and N. Mori<sup>4</sup>, (1)Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (3)Department of Radiology, Koujin Hospital, Nagoya, Japan, (4)Psychiatry and Neurology, Hamamatsu University School of Medicine, Hamamatsu, Japan, (5)Child and Adolescent Psychiatry, Hamamatsu University School of Medicine, Hamamatsu, Japan, (6)Department of Contemporary Sociology, Chukyo University, Nagoya, Japan
- 10:00 107 107.107 Glutamate / Glutamine in the Basal Ganglia Is Associated with Executive Function and Communication Impairments in Autism: A [1H]MRS Study. J. Horder<sup>1</sup>, M. A. Mendez<sup>1</sup>, T. J. Lavender<sup>2</sup>, S. Maltezos<sup>3</sup>, C. M. Murphy<sup>4</sup>, C. Ecker<sup>5</sup>, E. Daly<sup>1</sup> and D. G. Murphy<sup>6</sup>, (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom, (2)Institute of Psychiatry, King's College, London, United Kingdom, (3)The Maudsley Hospital, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, King's College, Institute of Psychiatry, London, United Kingdom, (5)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom
- 11:00 108 107.108 Altered Development of Striatal Structures Is Involved In Autistic Behaviour. M. Langen<sup>1</sup>, H. Nederveen<sup>1</sup>, D. Bos<sup>1</sup>, S. Noordermeer<sup>1</sup>, H. van Engeland<sup>1</sup> and S. Durston<sup>1</sup>, Department of Child and Adolescent Psychiatry, Rudolf Magnus Institute of Neuroscience, University Medical Center, Utrecht, Netherlands
- 9:00 109 107.109 Linking GABA to Tactile Function in ASD: A Pilot Magnetic Resonance Spectroscopy (MRS) Study. D. J. McGonigle<sup>1</sup>, L. White<sup>2</sup>, N. Puts<sup>3</sup>, R. Kent<sup>4</sup>, S. Carrington<sup>5</sup>, M. Tommerdahl<sup>6</sup>, R. Edden<sup>7</sup>, K. Singh<sup>8</sup>, D. Jones<sup>9</sup> and S. R. Leekam<sup>10</sup>, (1)Schools of Biosciences/Psychology, Cardiff University, Cardiff, United Kingdom, (2)WARC, School of Psychology, Cardiff University, Cardiff, United Kingdom, (3)School of Biosciences, Cardiff University, Cardiff, United Kingdom, (4)WARC, School of Psychology, Cardiff University, Cardiff, United Kingdom, (5)Wales Autism Research Centre, School of Psychology, Cardiff University, Cardiff, United Kingdom, (6)University of North Carolina, Chapel Hill, NC, (7)Division of Neuroradiology, John Hopkins University, Baltimore, MD, (8)CUBRIC, School of Psychology, Cardiff University, Cardiff, United Kingdom, (9)CUBRIC, School of Psychology, Cardiff University, Cardiff, United Kingdom, (10)Park Place, Cardiff University, Cardiff, United Kingdom
- 10:00 110 107.110 Reduced Auditory Cortical GABA Concentration in ASD and First Degree Relatives. D. C. Rojas<sup>1</sup>, S. E. Steinmetz<sup>1</sup>, D. Singel<sup>1</sup>, S. Hepburn<sup>1</sup> and M. Brown<sup>2</sup>, (1)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, (2)Radiology, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO

Poster Sessions

108 - Cell Biology

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 111 108.111 The Therapeutic Effect of Memantine Through the Stimulation of Synapse Formation and Dendritic Spine Maturation in Autism and Fragile X Syndrome. H. Wei<sup>1</sup>, M. Malik<sup>2</sup>, C. Dobkin<sup>1</sup>, A. Sheikh<sup>1</sup>, W. T. Brown<sup>3</sup> and X. Li<sup>1</sup>, (1)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 10:00 112 108.112 Correlation Between Hepatocyte Growth Factor (HGF) and GABA Plasma Levels in Autistic Children. A. J. Russo<sup>1</sup>, Health Research Institute, Oneonta, NY; Biology, Hartwick College, Oneonta, NY
- 11:00 113 108.113 Heavy Metal Exposures As a Risk Factor for Autism in Oman. M. I. Waly<sup>1</sup>, Y. M. Al-Farsi<sup>1</sup>, A. Ali<sup>1</sup>, M. Al-Sharbaty<sup>1</sup>, M. M. Al-Khaduri<sup>1</sup>, A. Ouhiti<sup>1</sup>, M. Al-Shafae<sup>1</sup>, O. A. Al-Farsi<sup>1</sup> and R. Deth<sup>2</sup>, (1)Sultan Qaboos University, Muscat, Oman, (2)Northeastern University, Boston, MA



- 9:00 114 108.114 The Oxytocin Agonist WAY267464 Is Also A Potent Vasopressin 1A Antagonist. C. Grundschober<sup>1</sup>, C. Risterucci<sup>1</sup>, T. Mueggler<sup>1</sup>, B. Biemans<sup>1</sup>, C. Bissantz<sup>2</sup>, S. Belli<sup>3</sup>, M. Schmitt<sup>4</sup> and P. Schnider<sup>2</sup>, (1)CNS Discovery, F. Hoffmann-La Roche, Basel, Switzerland, (2)Medicinal Chemistry, F. Hoffmann-La Roche, Basel, Switzerland, (3)Early ADME, F. Hoffmann-La Roche, Basel, Switzerland, (4)DMPK Development, F. Hoffmann-La Roche, Basel, Switzerland
- 10:00 115 108.115 Spontaneous Integration of Human DNA Fragments Into Host Genomes. K. Koyama<sup>1</sup> and T. A. Deisher, Sound Choice Pharmaceutical Institute, Seattle, WA
- 11:00 116 108.116 qRT-PCR-Based Assessment of Redox and Methylation Cycle Gene Expression in Autism. M. S. Trivedi<sup>1</sup>, N. Hodgson<sup>1</sup>, S. Al Mughairy<sup>2</sup>, M. Kesir<sup>3</sup>, D. Feingold<sup>3</sup>, M. I. Waly<sup>4</sup>, Y. Alfarsi<sup>4</sup> and R. Deth<sup>3</sup>, (1)Pharmaceutical Sciences, Northeastern University, Boston, MA, (2)Biology, Northeastern University, Boston, MA, (3)Northeastern University, Boston, MA, (4)Sultan Qaboos University, Muscat, Oman
- 9:00 117 108.117 Effects of Prenatal and Postnatal Sex Steroid Hormones on the Development of Autistic Traits in Children At 18-24 Months of Age. B. Auyeung<sup>1</sup>, J. Ahluwalia<sup>2</sup>, L. Thomson<sup>3</sup>, K. Taylor<sup>4</sup>, G. Hackett<sup>5</sup> and S. Baron-Cohen<sup>1</sup>, (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Medical Director's Office, Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom, (3)Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom, (4)Department of Clinical Biochemistry, Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom, (5)Obstetrics and Gynaecology, Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom
- 10:00 118 108.118 Understanding Autism: How a Single Mutation Contributes to the Autism Phenotype. A. Chiochetti<sup>1,2,3</sup>, D. Haslinger<sup>2</sup>, J. Kellermann<sup>4</sup>, R. Waltes<sup>1</sup>, F. Poustka<sup>1</sup>, J. W. Bauer<sup>5</sup>, C. M. Freitag<sup>1</sup>, H. Hintner<sup>5</sup>, F. Lottspeich<sup>4</sup>, S. Wiemann<sup>3</sup>, L. Breitenbach-Koller<sup>2</sup> and S. M. Klauck<sup>3</sup>, (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe-University, Frankfurt am Main, Germany, (2)Department of Cell Biology, Paris-Lodron University, Salzburg, Austria, (3)Division of Molecular Genome Analysis, German Cancer Research Center (DKFZ), Heidelberg, Germany, (4)Protein Analysis, Max Planck Institute for Biochemistry, Munich, Germany, (5)Division of Molecular Dermatology and EB House Austria, Department of Dermatology, Paracelsus Medical University, Salzburg, Austria
- 11:00 119 108.119 Autism in Oman: Nutritional Deficiencies in Vitamin B12 and Folate Associated with Gender-Specific Abnormalities in Serum Thiol Levels. N. Hodgson<sup>1</sup>, R. Deth<sup>2</sup>, M. I. Waly<sup>3</sup> and Y. Alfarsi<sup>3</sup>, (1)Pharmaceutical Sciences, Northeastern University, Boston, MA, (2)Northeastern University, Boston, MA, (3)Sultan Qaboos University, Muscat, Oman
- 9:00 120 108.120 IL-6 Elevation in Brain Causes Neural Circuitry Imbalance and Mediates Autism-Like Behavior. X. Li<sup>1</sup>, H. Wei<sup>2</sup>, K. Chadman<sup>2</sup>, D. McCloskey<sup>3</sup>, A. Sheikh<sup>2</sup>, M. Malik<sup>4</sup> and W. T. Brown<sup>5</sup>, (1)New York State Institute for Basic Research in Developmental Disabilities, New York, NY, (2)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)College of Staten Island/CUNY, Staten Island, NY, (4)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (5)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 10:00 121 108.121 Identification of Transcriptional Targets of RORA, a Novel Candidate Gene for Autism Spectrum Disorder. T. Sarachana<sup>1</sup> and V. W. Hu, Biochemistry and Molecular Biology, The George Washington University, Washington, D.C.
- 11:00 122 108.122 Identification of Maternal Antibody Targets in Autism. D. Braunschweig<sup>1</sup> and J. Van de Water, University of California, Davis, CA
- 9:00 123 108.123 The Glutathione Pathway and Mercury Sensitivity in Autism. M. Garrecht<sup>1</sup>, Swinburne University, Glen Iris, Australia
- 10:00 124 108.124 Neuroigin Has Cell-Autonomous As Well As Cell-Non-Autonomous Functions In C. Elegans. J. B. Rand<sup>1</sup>, G. P. Mullen, E. A. Mathews and J. W. Hunter, Genetic Models of Disease, Oklahoma Medical Research Foundation, Oklahoma City, OK
- 11:00 125 108.125 Differential Immune Response to the Environmental Toxicant, BDE-49 in Children with Autism Spectrum Disorders. M. D. Eloi<sup>1</sup>, D. Zhou<sup>2</sup>, R. Boyce<sup>1</sup>, X. Yang<sup>2</sup>, I. N. Pessah<sup>3</sup> and J. Van de Water<sup>4</sup>, (1)School of Medicine, Department of Internal Medicine, Division of Rheumatology, Allergy and Clinical Immunology, University of California, Davis, CA, (2)School of Medicine, Department of Public Health, Division of Biostatistics, University of California, Davis, CA, (3)University of California, M.I.N.D. Institute, Davis, CA, (4)University of California, Davis, M.I.N.D. Institute, Sacramento, CA
- 9:00 126 108.126 Immune Dysfunction in Fragile X Syndrome and Autism. M. Careaga<sup>1,2</sup>, K. Basuta<sup>1</sup>, F. Tassone<sup>1,3</sup> and P. Ashwood<sup>1,2</sup>, (1)University of California, Davis, MIND Institute, Sacramento, CA, (2)Department of Medical Microbiology and Immunology Univ. California, Davis, CA, Davis, CA, (3)Department of Biochemistry and Molecular Medicine, University of California Davis School of Medicine, Davis, CA
- 10:00 127 108.127 Implications of Altered Brain Deiodinase Type 2 (D2) Expression in Animal Models and Postmortem Human Brains Derived From ASD Donors. E. M. Sajdel-Sulkowska<sup>1</sup>, A. Khan<sup>2</sup> and A. M. Zavacki<sup>3</sup>, (1)Psychiatry, Harvard Medical School/ BWH, Boston, MA, (2)Psychiatry, HMS/BWH, Boston, MA, (3)Medicine, HMS/BWH, Boston, MA
- 11:00 128 108.128 The Implications of Prostaglandin E2-Wnt Signaling Pathway Interaction in Autism. C. Wong<sup>1,2</sup>, H. Li<sup>1</sup> and D. A. Crawford<sup>1,2,3</sup>, (1)School of Kinesiology and Health Science, York University, Toronto, ON, Canada, (2)Neuroscience Graduate Diploma Program, York University, Toronto, ON, Canada, (3)Department of Biology, York University, Toronto, ON, Canada

- 9:00 129 108.129 Maternal Inflammation Increases the Number of Basal Forebrain Cholinergic Neurons and Alters Neuregulin-1 Expression in the Hippocampus. L. Pratt<sup>1</sup>, L. Ni<sup>2</sup> and G. M. Jonakait<sup>2</sup>, (1)Rutgers University-Newark, Newark, NJ, (2)New Jersey Institute of Technology, Newark, NJ
- 10:00 130 108.130 Developmental Expression of Neuroligin and Neurexin mRNAs in the Fragile X Mouse. J. Lai<sup>1</sup>, S. Jacobs<sup>2</sup>, L. Doering<sup>2</sup> and J. A. Foster<sup>1</sup>, (1)Psychiatry and Behavioural Neuroscience, McMaster University, Hamilton, ON, Canada, (2)Pathology and Molecular Medicine, McMaster University, Hamilton, ON, Canada

Poster Sessions

109 - Genetics and Genomics

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 131 109.131 The Broader Autism Phenotype in Simplex and Multiplex Families. J. Gerdtts<sup>1</sup>, R. Bernier<sup>1</sup>, K. Ankenman<sup>1</sup> and G. Dawson<sup>2</sup>, (1)University of Washington, Seattle, WA, (2)University of North Carolina, Autism Speaks, Chapel Hill, NC
- 10:00 132 109.132 Understanding Parents' Opinions About Clinical Genetic Testing in ASD. J. Parr<sup>1</sup>, Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom
- 11:00 133 109.133 A Role for UBE3A in Structural Plasticity During the Critical Period of Neocortical Development. P. A. McCoy<sup>1,2</sup> and B. D. Philpot<sup>1,2,3</sup>, (1)Cell and Molecular Physiology, UNC, Chapel Hill, NC, (2)Carolina Institute for Developmental Disabilities, UNC, Chapel Hill, NC, (3)Neuroscience Center, UNC, Chapel Hill, NC
- 9:00 134 109.134 Blood Gene Expression Differences Between Autism Spectrum Disorders and Other Types of Developmental Delay. S. Letovsky<sup>1</sup>, M. E. Causey<sup>2</sup>, C. Proulx<sup>3</sup>, J. Skoletsky<sup>3</sup> and I. Hertz-Picciotto<sup>4</sup>, (1)SynapDx Corporation, Southborough, MA, (2)SynapDx Corporation, Belmont, MA, (3)SynapDx Corporation, Woburn, MA, (4)The UC Davis Medical Investigation of Neurodevelopmental Disorders (MIND) Institute, University of California Davis, Sacramento, CA
- 10:00 135 109.135 De Novo Point Mutations, Revealed by Whole-Exome Sequencing, Are Strongly Associated with Autism Spectrum Disorders. S. J. Sanders<sup>1</sup> and M. W. State<sup>2</sup>, (1)Genetics, Yale University, New Haven, CT, (2)Yale University School of Medicine, New Haven, CT
- 11:00 136 109.136 Blood-Based Gene Expression Signatures of Autistic Infants and Toddlers. S. J. Glatt<sup>1</sup>, M. T. Tsuang<sup>2</sup>, M. E. Winn<sup>3,4</sup>, S. D. Chandler<sup>2</sup>, M. Collins<sup>2</sup>, L. Lopez<sup>5</sup>, M. Weinfeld<sup>6</sup>, C. Carter<sup>7</sup>, N. Schork<sup>8</sup>, K. Pierce<sup>5</sup> and E. Courchesne<sup>7</sup>, (1)Psychiatry and Behavioral Sciences & Neuroscience and Physiology, SUNY Upstate Medical University, Syracuse, NY, (2)Center for Behavioral Genomics, Department of Psychiatry, University of California, San Diego, La Jolla, CA, (3)Graduate Program in Biomedical Sciences, Department of Medicine, University of California San Diego, La Jolla, CA, (4)Scripps Translational Science Institute, La Jolla, CA, (5)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, CA, (6)Neurosciences, University of California, San Diego, UCSD

- Autism Center of Excellence, La Jolla, CA, (7)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, La Jolla, CA, (8)Molecular and Experimental Medicine and UCSD Autism Center of Excellence, The Scripps Translational Research Institute, La Jolla, CA
- 9:00 137 109.137 Common SNPs, Rare CNVs and the Expression Network Between?. Y. Cheng<sup>1</sup>, K. Tsang<sup>1</sup>, E. Frank<sup>1</sup> and L. A. Weiss<sup>2</sup>, (1)Psychiatry and Institute for Human Genetics, UCSF, San Francisco, CA, (2)UCSF Department of Psychiatry, Institute for Human Genetics, San Francisco, CA
- 10:00 138 109.138 Genetic Abnormalities in Adults with Autism Spectrum Disorders. G. Stobbe<sup>1</sup>, F. Hisama<sup>1</sup>, L. Hudgings<sup>1</sup>, O. Thompson and R. Wu, University of Washington, Seattle, WA
- 11:00 139 109.139 The CNV Module of AutDB: A New Resource for the Clinical Genetics of Autism Spectrum Disorders. E. Larsen<sup>1</sup> and S. B. Basu, MindSpec Inc., McLean, VA
- 9:00 140 109.140 The Human Gene Module of AutDB: A Gene Reference Resource for Autism Research. T. Wadkins<sup>1</sup> and S. B. Basu, MindSpec Inc., McLean, VA
- 10:00 141 109.141 Evaluation of GABA(A) Receptor (GABA-R) Subunits Polymorphisms in An Argentinean Population of Autism Spectrum Disorders (ASD). C. V. Sesarini<sup>1</sup>, A. R. Cajal<sup>2</sup>, L. Costa<sup>1</sup>, M. Naymark<sup>3</sup>, M. Garcia Coto<sup>4</sup>, R. C. Pallia<sup>3</sup>, G. E. Agosta<sup>3</sup>, N. Grafana<sup>5</sup> and P. F. Argibay<sup>1</sup>, (1)Brain and Cognition Laboratory, Instituto de Ciencias Básicas y Medicina Experimental (ICBME), Hospital Italiano de Buenos Aires, Buenos Aires, Argentina, (2)Instituto de Ciencias Básicas y Medicina Experimental (ICBME), Hospital Italiano de Buenos Aires, Buenos Aires, Argentina, (3)Hospital Italiano de Buenos Aires, Buenos Aires, Argentina, (4)Centro de Investigaciones del Desarrollo Psiconeurológico (CIDEP), Buenos Aires, Argentina, (5)Hospital Carlos G Durand, Buenos Aires, Argentina
- 11:00 142 109.142 Screening for Variants in the PTEN Gene in ASD Patients in Saudi Arabia. A. Adi<sup>1</sup>, B. A. Al Tawil<sup>2</sup>, M. Aldosari<sup>3</sup>, A. Almuslamani<sup>3</sup>, M. Nester<sup>3</sup>, M. Ghannam<sup>1</sup>, B. F. Meyer<sup>1</sup> and N. Al Tassan<sup>1</sup>, (1)Department of Genetics, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (2)Department of Genetics, Research Center, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (3)Department of Neurosciences, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia
- 9:00 143 109.143 DNA Methylation of the Oxytocin Receptor (OXTR) and Associated Genes in Autism Spectrum Disorder (ASD). D. Butcher<sup>1</sup>, D. Grafodatskaya<sup>1</sup>, R. Rajendram<sup>1</sup>, S. Goodman<sup>1</sup>, Y. Lou<sup>1</sup>, C. Zhao<sup>1</sup>, S. W. Scherer<sup>2</sup>, W. Roberts<sup>3,4</sup>, E. Anagnostou<sup>5</sup> and R. Weksberg<sup>1</sup>, (1)Genetics and Genome Biology, The Hospital for Sick Children, Toronto, ON, Canada, (2)The Centre for Applied Genomics, The Hospital for Sick Children, Toronto, ON, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (5)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

- 10:00 144 109.144 Disclosing Results of Autism Genomic Testing—Systematic Review and Applying Its Results to Clinical Practice. B. Chung<sup>1</sup>, D. Cheuk<sup>2</sup>, M. Tang<sup>3</sup>, E. Lau<sup>3</sup>, Y. K. Chan<sup>3</sup> and Y. L. Lau<sup>4</sup>, (1)Queen Mary Hospital, Pokfulam Road, The University of Hong Kong, China, (2)Queeh Mary Hospital, Hong Kong, (3)Tsan Yuk Hospital, Hong Kong, (4)The University of Hong Kong, China
- 11:00 145 109.145 Using Cluster Analysis to Define Subgroups of Phenotypic Expression for Autism Spectrum Disorders. O. J. Veatch<sup>1</sup>, B. Yaspan<sup>1</sup>, N. Schnetz-Boutaud<sup>1</sup>, M. A. Pericak-Vance<sup>2</sup> and J. L. Haines<sup>1</sup>, (1)Center for Human Genetics, Vanderbilt University, Nashville, TN, (2)Husman Institute for Human Genomics, University of Miami, Miami, FL
- 9:00 146 109.146 Applying Atomistic Modeling to Predict NLGN3 Isoform Binding to Neurexin 1- Beta. N. Doan<sup>1</sup>, T. A. Deisher<sup>1</sup>, S. D. Solares<sup>2</sup> and Z. Talebizadeh<sup>3</sup>, (1)Sound Choice Pharmaceutical Institute, Seattle, WA, (2)University of Maryland, College Park, MD, (3)Children's Mercy Hospital and University of Missouri-Kansas City, Kansas City, MO
- 10:00 147 109.147 Tactile Sensitivity Phenotypes Associated with Variation in the Autism Candidate Gene GABRB3 in Typical Developing Children. T. Tavassoli<sup>1</sup>, B. Auyeung<sup>1</sup>, L. Murphy<sup>2</sup>, S. Baron-Cohen<sup>1</sup> and B. Chakrabarti<sup>3</sup>, (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)ARC, Cambridge, United Kingdom, (3)Centre for Integrative Neuroscience and Neurodynamics, University of Reading, Reading, United Kingdom
- 11:00 148 109.148 Autism Incidence and Association with MECP2 Variants on a Positively-Selected Haplotype in North-Eastern China. X. Zhou<sup>1,2</sup>, Y. Xu<sup>1,2,3</sup>, L. J. Wu<sup>1,2</sup>, Q. Ayub<sup>1</sup>, C. Tyler-Smith<sup>1</sup> and Y. Xue<sup>1</sup>, (1)The Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambs., United Kingdom, (2)Department of Children's and Adolescent Health, Public Health College of Harbin Medical University, Harbin, China, (3)Center for Behavioural Science, School of Medicine, Nankai University, Tianjin, China
- 9:00 149 109.149 Dravet Syndrome-Genetic Analysis of SCN1A and PCDH19 Mutations for 17 Chinese Children. V. C. N. Wong<sup>1</sup>, A. K. Y. Kwong and C. W. Fung, Department of Paediatrics and Adolescent Medicine, The University of Hong Kong, China
- 10:00 150 109.150 Genome-Wide Transcriptome Profiling Reveals the Functional Impact of Rare De Novo CNVs and Recurrent Events At 16p11.2 and 7q11.23 in ASD. R. Luo<sup>1</sup>, S. J. Sanders<sup>2</sup>, Y. Tian<sup>3</sup>, I. Voineagu<sup>4</sup>, N. Huang<sup>5</sup>, S. H. Chu<sup>6</sup>, L. Klei<sup>7</sup>, C. Cai<sup>8</sup>, J. K. Lowe<sup>9</sup>, J. Ou<sup>4</sup>, M. E. Hurles<sup>10</sup>, B. Devlin<sup>7</sup>, M. W. State<sup>11</sup> and D. H. Geschwind<sup>9</sup>, (1)Los Angeles, CA, (2)Child Study Center and Departments of Psychiatry and Genetics, Yale University School of Medicine, New Haven, CT, (3)Bioinformatics IDP, University of California, Los Angeles, CA, (4)Neurology, UCLA, Los Angeles, CA, (5)Wellcome Trust Sanger Institute, Cambridge, United Kingdom, (6)Carnegie Mellon University, Pittsburgh, PA, (7)University of Pittsburgh School of Medicine, Pittsburgh, PA, (8)University of California, Los Angeles, CA, (9)Center for Neurobehavioral Genetics, University of California, Los Angeles, CA, (10)Wellcome Trust Sanger Institute, Cambridge, United Kingdom, (11)Yale University School of Medicine, New Haven, CT
- 11:00 151 109.151 Global DNA Methylation Changes in Brain Tissues From Individuals with Autism. V. W. Hu<sup>1</sup>, Y. Hong and M. Xu, Biochemistry and Molecular Biology, The George Washington University School of Medicine and Health Sciences, Washington, D.C.
- 9:00 152 109.152 Concentration of Double Strand Break Specification Signatures in Autism Associated Genes. A. Omaie<sup>1</sup>, N. Doan<sup>2</sup>, T. A. Deisher<sup>2</sup> and S. D. Solares<sup>3</sup>, (1)Seattle University, Seattle, WA, (2)Sound Choice Pharmaceutical Institute, Seattle, WA, (3)University of Maryland, College Park, MD
- 10:00 153 109.153 Alternative RNA Splicing in Autism Spectrum Disorders. B. Stamova<sup>1</sup>, Y. Tian<sup>1</sup>, C. W. Nordahl<sup>2</sup>, M. D. Shen<sup>2</sup>, D. G. Amaral<sup>2</sup> and F. R. Sharp<sup>1</sup>, (1)UC Davis, MIND Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA
- 11:00 154 109.154 Case-Control Haplotype Analysis Indicates Association of TPH1 Gene with Autism Spectrum Disorders (ASD) In the Indian Population. A. S. Singh<sup>1</sup>, U. Rajamma<sup>1</sup>, S. Sinha<sup>2</sup>, A. Chatterjee<sup>2</sup> and S. Ghosh<sup>3</sup>, (1)Manovikas Biomedical Research and Diagnostic Centre, Manovikas Kendra Rehabilitation and Research Institute for the Handicapped, Kolkata, India, (2)Out-Patient Department, Manovikas Kendra Rehabilitation and Research Institute for the Handicapped, Kolkata, India, (3)Human Genetics Unit, Indian Statistical Institute, Kolkata, India
- 9:00 155 109.155 Annexins: A Putative Role in the Etiology of ASD. I. C. Conceição<sup>1</sup>, C. Correia<sup>2,3</sup>, I. Sousa<sup>2</sup>, A. F. Sequeira<sup>4</sup>, B. Oliveira<sup>5</sup>, J. Coelho<sup>5</sup>, J. Almeida<sup>6</sup>, C. Café<sup>6</sup>, F. Duque<sup>6</sup>, D. Pinto<sup>7</sup>, W. Roberts<sup>8,9</sup>, K. Gao<sup>10</sup>, J. K. Lowe<sup>11,12</sup>, S. W. Scherer<sup>13</sup>, D. H. Geschwind<sup>12,14,15</sup>, G. Oliveira<sup>5</sup> and A. M. Vicente<sup>2,3</sup>, (1)Instituto Nacional de Saúde Dr Ricardo Jorge, Lisboa, Portugal, (2)Instituto Gulbenkian de Ciência, Oeiras, Portugal, (3)Instituto Nacional de Saúde Dr. Ricardo Jorge, Lisboa, Portugal, (4)Instituto Gulbenkian de Ciência, Lisbon, Portugal, (5)Instituto Nacional de Saúde Dra Ricardo Joge, Lisbon, Portugal, (6)Hospital Pediátrico de Coimbra, Coimbra, Portugal, (7)The Centre for Applied Genomics, The Hospital for Sick Children, Toronto, ON, Canada, (8)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (9)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (10)David Geffen School of Medicine, University of California, Los Angeles, CA, (11)Neurology, University of California, Los Angeles, CA, (12)Center for Neurobehavioral Genetics, University of California, Los Angeles, CA, (13)University of Toronto, Toronto, ON, Canada, (14)University of California, Los Angeles, CA, (15)Center for Neurobehavioral Genetics, University of California, Los Angeles, CA
- 10:00 156 109.156 Identification of Genetic Risk Factors Involved in Autism Spectrum Disorders. C. Sin<sup>1,2</sup>, H. Li<sup>1</sup>, C. Wong<sup>1,2,3</sup> and D. A. Crawford<sup>1,2,3</sup>, (1)School of Kinesiology and Health Science, York University, Toronto, ON, Canada, (2)Neuroscience Graduate Diploma Program, York University, Toronto, ON, Canada, (3)Department of Biology, York University, Toronto, ON, Canada



- 11:00 157 109.157 Association of Gain of DNA Methylation At the Arylsulfatase A Gene Promoter with Autism Spectrum Disorders. D. Grafodatskaya<sup>1</sup>, R. Rajendram<sup>1</sup>, Y. Lou<sup>1</sup>, D. Butcher<sup>1</sup>, L. Senman<sup>2</sup>, C. Windpassinger<sup>3</sup>, W. Roberts<sup>2</sup>, S. W. Scherer<sup>4</sup> and R. Weksberg<sup>1</sup>, (1)Genetics and Genome Biology, The Hospital for Sick Children, Toronto, ON, Canada, (2)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (3)Institute of Human Genetics, Medical University of Graz, Graz, Austria, (4)The Centre for Applied Genomics, The Hospital for Sick Children, Toronto, ON, Canada
- 9:00 158 109.158 Styles of Participation in the Simons Simplex Collection and Ethical Implications of Genetics Research. J. S. Singh<sup>1</sup>, School of History, Technology and Society, Georgia Institute of Technology, Atlanta, GA
- 10:00 159 109.159 Relationship Between the CNTNAP2 Gene Variant and Cognitive and Behavioral Flexibility in Children with Autism Spectrum Disorders. A. C. Sharber<sup>1</sup>, L. Kenworthy<sup>1</sup>, J. Strang<sup>1</sup>, D. N. Abrams<sup>1</sup>, J. M. Devaney<sup>2</sup> and B. Yerys<sup>3</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Children's Research Institute, Center for Genetic Medicine Research, Children's National Medical Center, Washington, DC, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA
- 11:00 160 109.160 Parents' Opinions about Clinical Genetic Testing in ASD. J. Parr<sup>1</sup>, A. Hames<sup>1</sup>, R. Alegbo<sup>1</sup>, A. Henderson<sup>2</sup>, D. Garland<sup>3</sup>, T. Finch<sup>4</sup> and J. McLaughlin<sup>5</sup>, (1)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom, (2)Northern Genetics Service, Newcastle Upon Tyne NHS Foundation Trust, Newcastle, United Kingdom, (3)Newcastle Autism Resource Centre, National Autistic Society, Newcastle, United Kingdom, (4)Institute of Health and Society, Newcastle University, Newcastle, United Kingdom, (5)Policy, Ethics and Life Sciences Research Centre, Newcastle University, Newcastle, United Kingdom
- 9:00 161 109.161 An Item-Level Approach to Genome-Wide Association of Autism Spectrum Disorders. J. J. Connolly<sup>1</sup>, J. Glessner<sup>2,3</sup> and H. Hakonarson<sup>1,3</sup>, (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, (3)University of Pennsylvania, Philadelphia, PA
- 10:00 162 109.162 Identification of DNA Methylation Alterations in Children with Autism Spectrum Disorders Conceived Using Assisted Reproduction. R. Rajendram<sup>1</sup>, D. Grafodatskaya<sup>2</sup>, L. Senman<sup>3</sup>, W. Roberts<sup>3</sup>, S. W. Scherer<sup>4</sup> and R. Weksberg<sup>2</sup>, (1)Toronto, ON, Canada, (2)Genetics and Genome Biology, The Hospital for Sick Children, Toronto, ON, Canada, (3)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (4)The Centre for Applied Genomics, The Hospital for Sick Children, Toronto, ON, Canada
- 11:00 163 109.163 Advanced Maternal Age and Autism Spectrum Disorders (ASDs): The Role of Covert Mosaicism, Uniparental Disomy, and DNA Methylation in the Etiology of ASDs. E. R. Berko<sup>1</sup>, F. Beren<sup>2</sup>, M. Suzuki<sup>3</sup>, S. Molholm<sup>2</sup>, J. J. Foxe<sup>4</sup>, R. W. Marion<sup>5</sup> and J. M. Grealley<sup>3</sup>, (1)Dept of Genetics, Albert Einstein College of Medicine, Bronx, NY, (2)Stern College for Women of Yeshiva University, New York, NY, (3)Dept of Genetics and Center for Epigenomics, Albert Einstein College of Medicine, Bronx, NY, (4)Dept of Pediatrics & Neuroscience, Albert Einstein College of Medicine, Bronx, NY, (5)Dept of Pediatrics, Albert Einstein College of Medicine, Bronx, NY
- 9:00 164 109.164 Autism, Obesity, and mTOR: Are There Any Connections?. Z. Talebizadeh<sup>1</sup> and M. Miralles<sup>1</sup>, Children's Mercy Hospital and University of Missouri-Kansas City, Kansas City, MO
- 10:00 165 109.165 Subgroup Analyses Suggest Interplay of Rare and Common Variants In the Etiology of Autism. M. W. Marquardt<sup>1</sup>, T. N. Takahashi and J. H. Miles, University of Missouri – Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO
- 11:00 166 109.166 Discovery and Analysis of New Alternatively Spliced Isoforms of Autism Candidate Genes. S. Kang<sup>1</sup>, X. Yang<sup>2,3</sup>, G. N. Lin<sup>1</sup>, R. Corominas<sup>1</sup>, Y. Shen<sup>2,3</sup>, S. A. Wanamaker<sup>2,3</sup>, S. Tam<sup>2,3</sup>, M. Rodriguez<sup>2,3</sup>, M. Broly<sup>2,3</sup>, J. Sebat<sup>1</sup>, K. Salehi-Ashtiani<sup>2,3</sup>, D. E. Hill<sup>2,3</sup>, M. Vidal<sup>2,3</sup>, T. Hao<sup>2,3</sup> and L. M. Iakoucheva<sup>1</sup>, (1)Department of Psychiatry, University of California San Diego, La Jolla, CA, (2)Center for Cancer Systems Biology (CCSB) and Department of Cancer Biology, Dana-Farber Cancer Institute, Boston, MA, (3)Department of Genetics, Harvard Medical School, Boston, MA
- 9:00 167 109.167 Baseline Physiological Defensiveness: Predicting Severity of Social Responsiveness Scale Scores. T. A. Hassenfeldt<sup>1</sup>, M. Patriquin and A. Scarpa, Department of Psychology, Virginia Tech, Blacksburg, VA

Poster Sessions

110 - Neuropathology

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 168 110.168 Cortical Organization in the Brains of Autistic Subjects: A Correlation Between Pyramidal Cell Size and Core Minicolumnar Width. M. F. Casanova<sup>1</sup>, A. S. El-Baz<sup>2</sup> and A. E. Switala<sup>1</sup>, (1)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (2)Bioengineering, University of Louisville, Louisville, KY
- 10:00 169 110.169 Alteration of Astrocyte in the Frontal Cortex of Autistic Subjects. A. M. Sheikh<sup>1</sup>, W. Guang<sup>2</sup>, F. Cao<sup>3</sup>, A. Yin<sup>4</sup>, M. Malik<sup>5</sup>, W. T. Brown<sup>6</sup> and X. Li<sup>7</sup>, (1)NY State Institute for Basic Research in Developmental Disabilities, New York, NY, (2)NY State Institute for Basic Research in Developmental Disabilities, New York, NY, (3)NY State Institute for Basic Research in Developmental Disabilities, New York, NY, (4)NY State Institute for Basic Research in Developmental Disabilities, NY, NY, (5)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (6)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (7)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY



- 11:00 170 110.170 Comprehensive Analysis of Glial Abnormalities in the Amygdala in Autism. J. T. Morgan<sup>1</sup>, D. G. Amaral and C. M. Schumann, Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA
- 9:00 171 110.171 Cajal-Retzius Cell Number in Layer I of the Superior Temporal Lobe Is Similar in Autistic and Control Human Brains. E. Ejaz, J. Camacho and V. Martinez Cerdeno<sup>1</sup>, Pathology and Laboratory Medicine, University of California, Davis, Sacramento, CA
- 10:00 172 110.172 Benzodiazepine Binding Site and GABA-B Receptor Density in the Cerebellar Cortex, Broca's, and Wernicke's Areas in Individuals with Autism. G. J. Blatt<sup>1</sup>, C. R. Clancy, S. C. Kern, A. L. Oblak and T. T. Gibbs, Boston University School of Medicine, Boston, MA
- 11:00 173 110.173 Morphological Analysis of Dendritic Spines on Cortical Pyramidal Cells in ASD. T. A. Avino<sup>1</sup>, C. Wojcik, A. Mann and J. J. Hutsler, Psychology, University of Nevada, Reno, NV
- 9:00 174 110.174 A Stereological Investigation of Regional Cerebellar Purkinje Cell Densities in Autism: Clues About Direct Gaze and Executive Function Impairments. J. Skefos<sup>1</sup>, T. Yuce<sup>2</sup>, K. Enzer<sup>2</sup>, E. Levy<sup>2</sup>, K. Weed<sup>2</sup> and M. Bauman<sup>1</sup>, (1)Anatomy & Neurobiology, Boston University School of Medicine, Boston, MA, (2)Boston University, Boston, MA
- 10:00 175 110.175 Evidence of Oxidative Damage and Inflammation Associated with Low Glutathione Redox Status in the Autism Brain. S. Rose<sup>1</sup>, S. Melnyk, O. Pavliv, S. Bai, T. G. Nick, R. E. Frye and S. J. James, University of Arkansas for Medical Sciences, Little Rock, AR
- 11:00 176 110.176 Comparative Neuropathology of Lissencephaly with ARX Mutation: Consideration of Neocortical Interneuron Distribution of Various Lissencephalies. M. Itoh<sup>1</sup>, Mental Retardation and Birth Defect Reserch, National Center of Neurology and Psychiatry, Kodaira, Japan
- 11:00 179 111.179 Mobile Brain-Body Imaging of ASD Participants During Natural Movement. M. Westerfield<sup>1</sup>, K. Vo<sup>2</sup>, D. Lock<sup>3</sup>, S. Wee<sup>1</sup>, D. Sarma<sup>3</sup>, S. Makeig<sup>3</sup> and J. Townsend<sup>1</sup>, (1)Neurosciences, University of California, San Diego, La Jolla, CA, (2)Chicago Medical School, North Chicago, IL, (3)Swartz Center for Computational Neuroscience, University of California, San Diego, La Jolla, CA
- 9:00 180 111.180 Neuromodulation Effects on Error Monitoring and Correction Function in Autism Spectrum Disorders. E. M. Sokhadze<sup>1</sup>, L. L. Sears<sup>2</sup>, G. Sokhadze<sup>3</sup>, A. S. El-Baz<sup>4</sup> and M. F. Casanova<sup>5</sup>, (1)University of Louisville, Louisville, KY, (2)Pediatrics, University of Louisville, Louisville, KY, (3)Psychology & Brain Sciences, University of Louisville, Louisville, KY, (4)Bioengineering, University of Louisville, Louisville, KY, (5)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY
- 10:00 181 111.181 Resting-State Gamma Power in Young Children with ASD Participating in a Treatment Program. K. A. McEvoy<sup>1,2,3</sup>, A. Norona<sup>2</sup> and S. S. Jeste<sup>2</sup>, (1)Neuroscience Interdepartmental Program, UCLA, Los Angeles, CA, (2)Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA, (3)Medical Scientist Training Program, UCLA, Los Angeles, CA
- 11:00 182 111.182 Neural Correlates of Learning From Social Engagement in Children with ASD. L. Elder<sup>1</sup>, A. Norona, C. Shimizu and S. S. Jeste, Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA
- 9:00 183 111.183 Attentional Mechanisms in Autism Spectrum Disorders and Schizophrenia: An Event-Related Potential Study. C. T. W. M. Vissers<sup>1,2</sup>, S. Koolen<sup>3</sup>, D. J. Chwilla<sup>2</sup> and J. I. M. Egger<sup>1,2,3</sup>, (1)Centre of Excellence for Neuropsychiatry, Vincent van Gogh Institute for Psychiatry, Venray, Netherlands, (2)Donders Institute for Brain, Cognition and Behaviour, Centre for Cognition, Radboud University Nijmegen, Nijmegen, Netherlands, (3)Behavioural Science Institute, Radboud University Nijmegen, Nijmegen, Netherlands
- 10:00 184 111.184 Monitoring in Language Perception in High-Functioning Adults with Autism Spectrum Disorder: Evidence From Event-Related Potentials. S. Koolen<sup>1</sup>, C. T. W. M. Vissers<sup>2,3</sup>, J. I. M. Egger<sup>1,2,3</sup> and L. Verhoeven<sup>1</sup>, (1)Behavioural Science Institute, Radboud University, Nijmegen, Netherlands, (2)Centre of Excellence for Neuropsychiatry, Vincent van Gogh Institute for Psychiatry, Venray, Netherlands, (3)Donders Institute for Brain, Cognition and Behaviour, Centre for Cognition, Radboud University, Nijmegen, Netherlands

Poster Sessions

111 - Neurophysiology I

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 177 111.177 Basic Information Processing in Children with Autism Spectrum Disorders. G. F. Madsen<sup>1</sup>, N. Bilenberg<sup>1</sup> and B. Oranje<sup>2</sup>, (1)Child and Adolescent Psychiatry, University of Southern Denmark, Odense C, Denmark, (2)Center for Neuropsychiatric Schizophrenia Research (CNSR) and Center for Clinical Intervention and Neuropsychiatric Schizophrenia Research (CINS), Psychiatric Center Glostrup, University of Copenhagen, Glostrup, Denmark
- 10:00 178 111.178 Sensory Change Detection and Attention in Autism: An EEG and Event-Related Brain Potential Study. M. Zinni<sup>1</sup>, D. Trauner and J. Townsend, Neurosciences, University of California, San Diego, La Jolla, CA

- 11:00 185 111.185 Sleep Spindles and K-Complexes: EEG Markers of Poor Sleep in Autism. S. M. Duplan<sup>1</sup>, M. Chicoine<sup>2</sup>, C. Berthiaume<sup>3</sup>, E. Chevrier<sup>4</sup>, L. Mottron<sup>5,6,7,8,9</sup> and R. Godbout<sup>4,10,11</sup>, (1)Sleep Laboratory and Clinic, Hôpital Rivière-des-Prairies, Montréal, QC, Canada, (2)Hôpital Rivière-des-Prairies, Montréal, QC, Canada, (3)Hopital Riviere-des-Prairies, Montreal, QC, Canada, (4)Sleep Laboratory & Clinic, Hôpital Rivière-des-Prairies, Montréal, QC, Canada, (5)Autism Excellence Center, Hôpital Rivière-des-Prairies, Montréal, QC, Canada, (6)Psychiatry, Université de Montréal, Montréal, QC, Canada, (7)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (8)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (9)Psychiatry, University of Montreal, Montréal, QC, Canada, (10)Psychiatry, Université de Montreal, Montreal, QC, Canada, (11)7070 Boul. Perras, Sleep Laboratory & Clinic, Montreal, QC, Canada
- 9:00 186 111.186 Auditory Processing and Language Impairment in Children with ASD. S. Yau<sup>1</sup>, B. W. Johnson<sup>2</sup> and J. Brock<sup>2</sup>, (1)Centre for Cognition and its Disorders, Macquarie Centre for Cognitive Science, Sydney, Australia, (2)Centre for Cognition and its Disorders, Macquarie University, Sydney, Australia
- 10:00 187 111.187 Neural Correlates of Environmental Sound and Emotional Semantic Integration in Children with Autism. J. McCleery<sup>1</sup>, V. Vogel-Farley<sup>2</sup>, C. Stefanidou<sup>3</sup>, S. Utz<sup>3</sup> and C. A. Nelson<sup>4</sup>, (1)Edgbaston, University of Birmingham, Birmingham, United Kingdom, (2)Labs of Cognitive Neuroscience, Children's Hospital, Boston, MA, (3)School of Psychology, University of Birmingham, Birmingham, United Kingdom, (4)Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA
- 11:00 188 111.188 ERP Phase Synchrony in Language Networks Is Highly Correlated with Language and Cognitive Abilities in Autistic and Typical Children. K. M. Martien<sup>1</sup>, H. Bharadwaj<sup>2</sup> and M. R. Herbert<sup>3</sup>, (1)Pediatrics, Lurie Center for Autism, Massachusetts General Hospital, Lexington, MA, (2)Pediatric Neurology, Massachusetts General Hospital, Charlestown, MA, (3)Massachusetts General Hospital, Charlestown, MA
- 9:00 189 111.189 Short-Duration Visual Evoked Potentials (VEPs) in Children with ASD. P. M. Weinger<sup>1,2</sup>, J. Gordon<sup>2</sup>, T. Navalta<sup>2</sup>, L. V. Soorya<sup>3</sup> and V. Zemon<sup>1</sup>, (1)Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, (2)Psychology, Hunter College, City University of New York, New York, NY, (3)Psychiatry, Mount Sinai School of Medicine, New York, NY
- 10:00 190 111.190 Reduced Resting Gamma Power Is Associated with Symptom Severity in Autism. M. E. Villalobos<sup>1</sup>, C. R. Maxwell<sup>1</sup>, R. T. Schultz<sup>1</sup>, B. Herpertz-Dahlmann<sup>2</sup>, K. Konrad<sup>3</sup> and G. Kohls<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Child and Adolescent Psychiatry, University Hospital Aachen, Aachen, Germany, (3)Child Neuropsychology Section, University Hospital Aachen, Aachen, Germany
- 11:00 191 111.191 Early Processing of Emotional Faces in Children with Autism: An Event-Related Potential Study. M. Batty<sup>1</sup>, E. Meaux<sup>1</sup> and M. J. Taylor<sup>2</sup>, (1)Centre de Pédopsychiatrie, INSERM U930, Tours, France, (2)Department of Diagnostic Imaging, Hospital for Sick Children, Toronto, ON, Canada
- 9:00 192 111.192 Auditory Integration As a Neural Marker of Language Disorders in ASD. J. E. Oram Cardy<sup>1</sup>, R. Nicolson<sup>2</sup>, L. M. D. Archibald<sup>1</sup>, J. Boehm<sup>1</sup>, H. M. Brown<sup>3</sup>, M. E. Stothers<sup>3</sup>, C. McCarthy<sup>4</sup> and E. Kwok<sup>3</sup>, (1)Communication Sciences and Disorders, University of Western Ontario, London, ON, Canada, (2)Psychiatry, University of Western Ontario, London, ON, Canada, (3)Health and Rehabilitation Sciences, University of Western Ontario, London, ON, Canada, (4)Kinesiology, University of Western Ontario, London, ON, Canada
- 10:00 193 111.193 Electrophysiological Indices of Empathic Response and Their Relation to Autistic Traits. C. E. Mukerji<sup>1</sup>, R. Bernier<sup>2</sup>, A. Naples<sup>1</sup>, G. Righi<sup>1</sup>, D. Perszyk<sup>1</sup>, M. Coffman<sup>1</sup> and J. McPartland<sup>1</sup>, (1)Yale Child Study Center, New Haven, CT, (2)University of Washington, Seattle, WA
- 11:00 194 111.194 Three Strategies for Prospective Mapping of Neurophysiological Measures on to Behavioural Outcomes. M. Elsabbagh<sup>1</sup>, E. Mercure<sup>2</sup>, A. Pickles<sup>3</sup>, T. Charman<sup>4</sup>, M. H. Johnson<sup>5</sup> and BASIS team<sup>6</sup>, (1)Psychiatry, McGill University, Montreal, QC, Canada, (2)Institute of Cognitive Neuroscience, University College, London, United Kingdom, (3)Institute of Psychiatry, King's College, London, United Kingdom, (4)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (5)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom, (6)Centre for Brain and Cognitive Development, Birkbeck, London, United Kingdom
- 9:00 195 111.195 Brain Response to Gaze Contingent Eye-Contact in ASD. A. Naples<sup>1</sup>, M. Coffman, C. E. Mukerji, J. Wu, L. Mayes and J. McPartland, Yale Child Study Center, New Haven, CT
- 10:00 196 111.196 Developmental Changes in Mu Suppression to Observed and Executed Actions in Autism Spectrum Disorders. L. M. Oberman<sup>1</sup>, J. McCleery<sup>2</sup>, E. Hubbard<sup>3</sup>, R. Bernier<sup>4</sup>, J. R. Wiersema<sup>5</sup>, R. Raymaekers<sup>6</sup> and J. A. Pineda<sup>7</sup>, (1)Beth Israel Deaconess Medical Center, Boston, MA, (2)University of Birmingham, Birmingham, United Kingdom, (3)Vanderbilt, Nashville, TN, (4)University of Washington, Seattle, WA, (5)Department of Experimental, Clinical and Health Psychology, Ghent University, Ghent, Belgium, (6)Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium, (7)University of California, San Diego, CA

Poster Sessions

112 - Neurophysiology II

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 197 112.197 Ambient Prism Lenses Modulate Spatial Attention in Autism: An Event-Related Potential Study. G. Sokhadze<sup>1</sup>, M. Kaplan<sup>2</sup>, S. M. Edelson<sup>3</sup>, E. M. Sokhadze<sup>4</sup>, A. S. El-Baz<sup>5</sup>, B. A. Dombroski<sup>6</sup> and M. F. Casanova<sup>4</sup>, (1)University of Louisville, Louisville, KY, (2)Center for Visual Management, Tarrytown, NY, (3)Autism Research Institute, San Diego, CA, (4)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (5)Bioengineering, University of Louisville, Louisville, KY, (6)Department of Anatomical Sciences & Neurobiology, University of Louisville, Louisville, KY
- 10:00 198 112.198 EEG Measures of Response to Attentional Network (ANT) Task in Autistic and Neurotypical Individuals. C. Chesnutt<sup>1</sup>, M. Baker<sup>2</sup>, M. O'Boyle<sup>3</sup> and D. Richman<sup>4</sup>, (1)Texas Tech University, Lubbock, TX, (2)Electrical and Computer Engineering, Texas Tech University, Lubbock, TX, (3)Human Development and Family Studies, Texas Tech University, Lubbock, TX, (4)Burkhart Center for Autism, Texas Tech University, Lubbock, TX
- 11:00 199 112.199 Reduced Transient and Steady-State Auditory Gamma-Band Activity in Children with Autism Spectrum Disorders and Their Unaffected Siblings. K. L. McFadden<sup>1</sup>, S. E. Steinmetz<sup>1</sup>, A. S. Moiyadi<sup>1</sup>, L. B. Wilson<sup>1</sup>, E. Kronberg<sup>1</sup>, S. Hepburn<sup>1,2</sup> and D. C. Rojas<sup>1</sup>, (1)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, (2)University of Colorado / JFK Partners, Aurora, CO
- 9:00 200 112.200 Support Vector Machine (SVM) Analysis of Auditory Oddball Event-Related Potentials (ERP) Classifies Toddlers with and without Early Signs of Autism. A. E. Lane<sup>1</sup>, J. Eldridge<sup>1</sup>, K. Harpster<sup>2</sup>, S. J. Dennis<sup>1</sup>, T. Shahin<sup>1</sup> and M. Belkin<sup>1</sup>, (1)The Ohio State University, Columbus, OH, (2)Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 10:00 201 112.201 The High Frequency Brain Response to Illusory Contour in Boys with Autism: The Missing Processing Stage?. T. A. Stroganova<sup>1</sup>, E. V. Orekhova<sup>2</sup>, M. M. Tsetlin<sup>1,3</sup> and A. A. Morozov<sup>4</sup>, (1)MEG Center, Moscow State University of Psychology and Education, Moscow, Russia, (2)Neuroscience, Sahlgrenska University Hospital, Gothenburg, Sweden, (3)Laboratory of Developmental Psychogenetics, Psychological Institute of Russian Academy of Education, Moscow, Russia, (4)Lab 144, Institute of Radio Engineering and Electronics, Moscow, Russia
- 11:00 202 112.202 Genotype Phenotype Interactions of Epilepsy in Children and Adolescents with Autism Spectrum Disorders. M. Byrd<sup>1</sup>, O. J. Veatch<sup>2</sup>, J. Paolicchi<sup>3</sup>, J. L. Haines<sup>2</sup> and G. Barnes<sup>1</sup>, (1)Neurology, Vanderbilt, Nashville, TN, (2)Center for Human Genetics, Vanderbilt University, Nashville, TN, (3)Neurology, Vanderbilt University Medical Center, Nashville, TN
- 9:00 203 112.203 Autonomic Responses to Social and Non-Social Reward Among Children with Autism. E. E. Neuhaus<sup>1</sup>, T. P. Beauchaine<sup>2</sup> and R. Bernier<sup>1</sup>, (1)University of Washington, Seattle, WA, (2)Washington State University, Pullman, WA
- 10:00 204 112.204 Regulation of Heart Rate in Adolescence: Relations to Social Anxiety and Intervention Effects. K. Schohl<sup>1</sup>, B. Dolan<sup>1</sup>, J. S. Karst<sup>2</sup>, A. Meyer<sup>2</sup>, S. Stevens<sup>1</sup>, N. Fritz<sup>1</sup>, C. Gasaway<sup>1</sup>, S. Brockman<sup>1</sup>, G. McDonald<sup>1</sup>, R. Rimmel<sup>1</sup> and A. V. Van Hecke<sup>3</sup>, (1)Marquette University, Milwaukee, WI, (2)Marquette University, Milwaukee, WI, (3)Psychology, Marquette University, Milwaukee, WI
- 11:00 205 112.205 Emotional Conflict Adaptation in Autism. S. E. White<sup>1</sup>, W. Ernst<sup>2</sup>, W. A. Worsham<sup>3</sup> and M. South<sup>2,3</sup>, (1)Neuroscience, Brigham Young University, Provo, UT, (2)Neuroscience, Brigham Young University, Provo, UT, (3)Psychology, Brigham Young University, Provo, UT
- 9:00 206 112.206 The Long and Short of It: Serotonin Transporter Allele Variants and Emotion Processing in Adults with Autism Spectrum Disorders. S. Faja<sup>1</sup>, S. J. Webb<sup>2,3</sup>, E. M. Wijsman<sup>4</sup>, E. H. Aylward<sup>5</sup> and G. Dawson<sup>6</sup>, (1)Box 357920, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Seattle Children's Research Institute, Seattle, WA, (4)University of Washington, Seattle, WA, (5)Seattle Children's Research Institute, Seattle, WA, (6)University of North Carolina, Autism Speaks, Chapel Hill, NC
- 10:00 207 112.207 Dissociation in Autism Between Reading Gaze Direction Versus Mental States From the Eyes. C. Ashwin<sup>1,2</sup>, A. J. Calder<sup>3</sup> and S. Baron-Cohen<sup>4</sup>, (1)Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)Psychology, University of Bath, Bath, United Kingdom, (3)MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom
- 11:00 208 112.208 Impaired Classical Conditioning in Persons with Autism Spectrum Disorder. P. S. Powell<sup>1</sup>, M. E. Crisler<sup>1</sup>, L. G. Klinger<sup>1,2</sup>, B. G. Travers<sup>1,3</sup> and M. R. Klinger<sup>1,4</sup>, (1)University of Alabama, Tuscaloosa, AL, (2)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC, (3)Waisman Center, University of Wisconsin-Madison, Madison, WI, (4)Allied Health, University of North Carolina School of Medicine, Chapel Hill, NC
- 9:00 209 112.209 Neural Mechanisms of Social and Non-Social Reward and Their Relation to Autistic Traits. A. Cox<sup>1</sup>, A. Naples<sup>1</sup>, H. Rutherford<sup>1</sup>, M. Coffman<sup>1</sup>, C. E. Mukerji<sup>1</sup>, L. Mayes<sup>1</sup> and J. McPartland<sup>1</sup>, Yale Child Study Center, New Haven, CT
- 10:00 210 112.210 Repetitive Transcranial Magnetic Stimulation (rTMS) Modulates Event-Related Potential Indices of Attention in Autism. M. F. Casanova<sup>1</sup>, J. M. Baruth<sup>2</sup>, L. L. Sears<sup>3</sup>, A. S. El-Baz<sup>4</sup> and E. M. Sokhadze<sup>5</sup>, (1)University of Louisville, Louisville, KY, (2)Anatomical Sciences & Neurobiology, University of Louisville, Louisville, KY, (3)Pediatrics, University of Louisville, Louisville, KY, (4)Bioengineering, University of Louisville, Louisville, KY, (5)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY

- 11:00 211 112.211 Functional Rehabilitation of Social Communication in Young Children with Autism: Clinical and Neurobiological Correlates. E. Meaux<sup>1</sup>, R. Blanc<sup>1</sup>, J. Malvy<sup>1</sup>, C. Barthelemy<sup>2</sup>, J. Martineau<sup>3</sup> and M. Batty<sup>1</sup>, (1)Centre de Pédopsychiatrie, Tours, France, (2)Centre de Pédopsychiatrie, Tours, France, (3)Tours, France
- 9:00 212 112.212 Low Iron Status and Sleep Disturbance in Children with Autism. R. Lane<sup>1</sup>, A. W. Buckley<sup>2</sup>, B. Felt<sup>3</sup>, C. Farmer<sup>2</sup>, A. Thurm<sup>2</sup> and S. Swedo<sup>2</sup>, (1)University of Michigan Medical School, Ann Arbor, MI, (2)Pediatrics & Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (3)Pediatrics and Communicable Diseases, University of Michigan Medical School, Ann Arbor, MI
- 10:00 213 112.213 Sources of Variable Functionality of the Execution/Observation Matching System in ASD. R. Bernier<sup>1</sup>, B. Aaronson<sup>2</sup> and J. McPartland<sup>3</sup>, (1)University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Yale Child Study Center, New Haven, CT
- 11:00 214 112.214 ERP Response to Affective Pictures in Children and Adolescents with Autism Spectrum Disorders. W. A. Worsham<sup>1</sup>, M. South, P. E. Clayson and M. J. Larson, Psychology, Brigham Young University, Provo, UT
- 9:00 215 112.215 An Investigation Into the Role of the Mirror Neuron System in Facial Emotion Processing in High Functioning Autism Utilizing Transcranial Magnetic Stimulation. K. Young<sup>1</sup>, T. J. Perkins<sup>2</sup>, D. Kidgell<sup>3</sup>, J. A. McGillivray<sup>2</sup> and M. A. Stokes<sup>4</sup>, (1)School of Psychology, Deakin University, Melbourne, Australia, (2)Psychology, Deakin University, Burwood, Australia, (3)School of Exercise and Nutrition Science, Faculty of Health, Deakin University, Burwood, Australia, (4)School of Psychology, Deakin University, Burwood, Australia
- 10:00 216 112.216 Animacy and Intentionality in the Mirror Neuron System in the Broader Autism Phenotype. G. P. Moseley<sup>1</sup>, A. Naples<sup>2</sup>, R. Bernier<sup>3</sup>, C. E. Mukerji<sup>2</sup>, M. Coffman<sup>2</sup>, G. Righi<sup>2</sup> and J. McPartland<sup>2</sup>, (1)Psychology, Yale University, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)University of Washington, Seattle, WA

## **IMFAR 12th Annual Meeting**

**May 2 – 4, 2013**

**Kursaal Centre**

**San Sebastian, Spain**

**Abstract submission will be much earlier  
for this meeting. Watch our website for details.**

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2:00-4:00P	<b>IES – Grand Ballroom Centre</b> Communicating Autism Science			1:00-5:30P <b>Poster Session –</b> Sheraton Hall
2:00-4:00P	<b>Oral Session –</b> Grand Ballroom East Large, Controlled Trials	<b>Oral Session –</b> Grand Ballroom West Cognition & Behavior: Across the Lifespan	<b>Oral Session –</b> Osgoode Ballroom East Clinical Phenotype: Influences	Clinical Phenotype Genetic, Prenatal & Biological Risk Factors Impact of Families & Quality of Life Schools, Employment & Community Screening, Incidence, Prevalence & Study Methods Social Risk Factors & Influences on Phenotype Use, Access & Evaluation of Services
4:00-4:30P	Break – Sheraton Hall			
4:30-6:00P	<b>INSAR Awards Ceremony – Grand Ballroom Centre</b>  Lifetime Achievement Award – Susan Folstein, M.D.  Advocate Award – Temple Grandin, Ph.D. (pre-recorded message)  Slifka/Ritvo Innovation in Autism Research Awards (to be announced)			
6:00-8:00P	<b>Reception</b> Dominion Ballroom			

**Invited Educational Symposium**  
**113 - Communicating Autism Science**  
 2:00 PM - 4:00 PM - Grand Ballroom Centre

*Session Chair: A. Singer; Autism Science Foundation*

Dissemination of autism research no longer ends with publication in a peer-reviewed journal. Media interest in autism science has grown steadily over the past few years and most scientists can now expect to hear from press after publishing research findings. Press and other stakeholders, many of whom write blogs, have also become regular attendees at scientific meetings and conferences. This symposium will teach attendees the best ways to interact with the press and other stakeholders, while still maintaining a commitment to scientific principles and integrity. Attendees will gain specific skills in creating a communications plan around their research, will learn how to work with their university press office, will get actionable tips from media regarding what makes a great interview, and will learn specific techniques for handling challenging questions and presenting potentially controversial findings.

- 2:00 113.001 Media Training 101: J. E. Rubinstein<sup>1</sup>, Rubenstein Associates, New York, NY
- 2:30 113.002 Working with the Press
- 3:00 113.003 Communicating Directly with Families and Other Stakeholders. D. Marnane<sup>1</sup>, Autism Speaks, New York, NY
- 3:30 113.004 Working with Your Press Office. E. B. Welker<sup>1</sup>, Kennedy Krieger Institute, Baltimore, MD

**Oral Sessions**  
**114 - Large, Controlled Trials**  
 2:00 PM - 4:00 PM - Grand Ballroom East

- 2:00 114.001 Treating Anxiety Disorders in Children with High Functioning Autism Spectrum Disorder: A Controlled Trial. A. M. Chalfant<sup>1</sup>, R. Rapee<sup>2</sup>, L. Carroll<sup>3</sup> and H. Lyneham<sup>2</sup>, (1)Annie's Centre, Randwick, Australia, (2)Psychology, Macquarie University, Sydney Australia, North Ryde, Australia, (3)Children's Hospital Westmead, Westmead, Australia
- 2:15 114.002 Omega-3 Fatty Acid Supplementation in Children with Autism. L. A. Carpenter<sup>1</sup>, S. L. Logan<sup>2</sup>, L. B. King<sup>1</sup>, J. Charles<sup>1</sup>, L. DeVane<sup>3</sup>, I. Singh<sup>1</sup>, W. Jenner<sup>1</sup>, C. A. Cheely<sup>1</sup> and J. S. Nicholas<sup>2</sup>, (1)Pediatrics, Medical University of South Carolina, Charleston, SC, (2)Medicine, Medical University of South Carolina, Charleston, SC, (3)Psychiatry, Medical University of South Carolina, Charleston, SC
- 2:30 114.003 Family Cognitive Behavioral Therapy for Anxiety in Autism Spectrum Disorders. J. J. Wood<sup>1</sup>, E. A. Storch<sup>2</sup> and J. M. Ehrenreich<sup>3</sup>, (1)University of California, Los Angeles, Los Angeles, CA, (2)Departments of Pediatrics and Psychiatry, University of South Florida, St. Petersburg, FL, (3)Psychology, University of Miami, Miami, FL
- 2:45 114.004 Treatment As Usual and Peer Engagement in Teens with High Functioning Autism. F. Orlich<sup>1</sup>, R. Montague<sup>2</sup>, R. Bernier<sup>3</sup>, R. Oti<sup>4</sup>, C. Kasari<sup>5</sup>, C. E. Lord<sup>6</sup> and B. King<sup>7</sup>, (1)PO Box 5371, University of Washington and Seattle Children's, Seattle, WA, (2)Seattle Children's, Seattle, WA, (3)University of Washington, Seattle, WA, (4)Child Psychiatry, Seattle Children's Hospital and Research Institute, Seattle, WA, (5)University of California, Los Angeles, CA, (6)Institute for Brain Development, Weill Cornell Medical College, White Plains, NY, (7)University of Washington and Seattle Children's Hospital, Seattle, WA

- 3:00 114.005 Efficacy of the LEAP and TEACCH Comprehensive Treatment Models for Preschoolers with ASD. B. Boyd<sup>1</sup>, K. Hume<sup>2</sup>, M. Alessandri<sup>3</sup>, A. Gutierrez<sup>3</sup>, L. D. Johnson<sup>4</sup>, L. A. Sperry<sup>5</sup> and S. L. Odum<sup>6</sup>, (1)Occupational Science, University of North Carolina, Chapel Hill, NC, (2)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, NC, (3)Psychology, University of Miami, Coral Gables, FL, (4)Educational Psychology, University of Minnesota, Minneapolis, MN, (5)Arts, Education and Law, Griffith University, Brisbane, Australia, (6)University of North Carolina, Chapel Hill, NC
- 3:15 114.006 Effectiveness of a Province-Wide Early Intervention Program for Preschoolers with ASD. I. M. Smith<sup>1</sup>, H. E. Flanagan<sup>2</sup>, K. Fossum<sup>3</sup>, T. Vaillancourt<sup>4</sup> and S. E. Bryson<sup>5</sup>, (1)NS, Canada, (2)IWK Health Centre, Halifax, NS, Canada, (3)Dalhousie University, Halifax, NS, Canada, (4)University of Ottawa, Ottawa, ON, Canada, (5)Dalhousie University/IWK Health Centre, Halifax, NS, Canada
- 3:30 114.007 A Randomized Controlled Trial of Preschool-Based Joint Attention Intervention for Children with Autism. A. Kaale<sup>1</sup>, L. Smith<sup>2</sup> and E. Sponheim<sup>1</sup>, (1)Oslo University Hospital, Oslo, Norway, (2)Centre for Child and Adolescent Mental Health, Oslo, Norway
- 3:45 114.008 Sapropterin As a Treatment for Autistic Disorder: Results of A Randomized, Double-Blind, Placebo-Controlled Trial and An Open Label Extension. C. Klaiman<sup>1</sup>, L. Masaki<sup>2</sup>, G. R. Elliott<sup>2</sup> and L. Huffman<sup>3,4</sup>, (1)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)Children's Health Council, Palo Alto, CA, (3)Pediatrics, Stanford University School of Medicine, Palo Alto, CA, (4)Evaluation and Quality Improvement, Children's Health Council, Palo Alto, CA
- 2:30 115.003 Postural Stability and Symmetry in Persons with Autism Spectrum Disorder: Relation Between Symptom Severity and Wii Balance Board Performance. B. G. Travers<sup>1,2</sup>, P. S. Powell<sup>1</sup>, L. G. Klinger<sup>1,3</sup> and M. R. Klinger<sup>1,3</sup>, (1)University of Alabama, Tuscaloosa, AL, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI, (3)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC
- 2:45 115.004 Specificity of Action Model Formation Deficits in Autism and Their Relationship to Social and Motor Impairments. S. H. Mostofsky<sup>1</sup>, Kennedy Krieger Institute, Baltimore, MD; Johns Hopkins School of Medicine, Baltimore, MD
- 3:00 115.005 Motor Resonance in Adolescents and Adults with Autism Spectrum Disorder. M. R. Klinger<sup>1</sup>, B. G. Travers<sup>2</sup>, P. S. Powell<sup>3</sup> and L. G. Klinger<sup>4</sup>, (1)Allied Health, University of North Carolina School of Medicine, Chapel Hill, NC, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI, (3)University of Alabama, Tuscaloosa, AL, (4)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC
- 3:15 115.006 Objective Measures of Imitation and Movement End-Point Re-Enactment in Autism. H. J. Stewart<sup>1</sup>, R. D. McIntosh<sup>1</sup> and J. H. G. Williams<sup>2</sup>, (1)University of Edinburgh, Edinburgh, United Kingdom, (2)Mental Health, University of Aberdeen, Aberdeen, United Kingdom
- 3:30 115.007 Atypical Updating of Face Representations with Experience in Children with Autism. L. Ewing<sup>1</sup>, E. Pellicano<sup>1,2</sup> and G. Rhodes<sup>1</sup>, (1)School of Psychology, University of Western Australia, Perth, Australia, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom
- 3:45 115.008 Theory of Mind in Children with Autism Spectrum Disorder: A "Non-Verbal" Task Highlights the Importance of Language. L. Leung<sup>1</sup>, J. L. Libby-Morris<sup>2</sup>, N. J. Sasson<sup>3</sup> and R. T. Schopler<sup>4</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Texas at Dallas, Richardson, TX, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

**Oral Sessions**

**115 - Cognition & Behavior: Across the Lifespan**

2:00 PM - 4:00 PM - Grand Ballroom West

- 2:00 115.001 Do Alterations in Low-Level Visual and Auditory Processing Co-Occur in Autistic Individuals?. A. A. Simard-Meilleur<sup>1</sup>, A. Bertone<sup>1,2,3</sup> and L. Mottron, M.D.<sup>1</sup>, (1)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (3)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada
- 2:15 115.002 Rates of Audiovisual Speech Integration Covary with Low-Level Multisensory Temporal Processing in ASD Individuals. M. T. Wallace<sup>1</sup>, J. K. Siemann<sup>2</sup>, B. C. Schneider<sup>2</sup>, H. E. Eberly<sup>2</sup>, T. G. Woynaroski<sup>1</sup>, J. H. Foss-Feig<sup>3</sup>, S. M. Camarata<sup>1</sup> and R. A. Stevenson<sup>1</sup>, (1)Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Vanderbilt University, Nashville, TN

**Oral Sessions**

**116 - Clinical Phenotype: Influences**

2:00 PM - 4:00 PM - Osgoode Ballroom East

- 2:00 116.001 Assessment of Symptom Severity in Siblings with Autism Spectrum Disorder: Comparing Parental Report Versus Direct Observation Methods Using Multilevel Modeling. E. Duku<sup>1</sup>, S. Georgiades, P. Szatmari, J. Cairney and K. Georgiades, Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada

- 2:15 116.002 Comparing Autism Screeners and Physician Surveillance Techniques At 18- and 24-Month Well Child Visits. K. C. Greer<sup>1</sup>, A. B. Barber<sup>2</sup>, A. Evans<sup>1</sup>, J. M. Pierucci<sup>2</sup>, K. M. Dickey<sup>2</sup>, M. R. Klinger<sup>3</sup> and L. G. Klinger<sup>4</sup>, (1)University of Alabama School of Medicine, Tuscaloosa, AL, (2)University of Alabama - ASD Clinic, Tuscaloosa, AL, (3)Allied Health, University of North Carolina School of Medicine, Chapel Hill, NC, (4)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC
- 2:30 116.003 Do Developmental Profiles of Toddlers with ASD Differ Based on Sibling Status Vs. Clinical Referral?. C. A. Saulnier<sup>1</sup>, K. Chawarska<sup>2</sup> and A. Klin<sup>3</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA
- 2:45 116.004 Social Economic Status and the M-CHAT: Unreliable Results for Mothers with Low Education Level. A. Scarpa<sup>1</sup>, N. M. Reyes<sup>2</sup>, M. Patriquin<sup>3</sup>, J. Lorenzi<sup>4</sup>, T. A. Hassenfeldt<sup>1</sup>, V. Desai<sup>5</sup> and K. Kerkering<sup>6</sup>, (1)Department of Psychology, Virginia Tech, Blacksburg, VA, (2)Psychology, Virginia Tech, Blacksburg, VA, (3)Virginia Tech, Blacksburg, VA, (4)Psychology, Virginia Tech, Blacksburg, VA, (5)Carilion Clinic, Roanoke, VA
- 3:00 116.005 Identifying Subgroups within PDD-NOS. L. A. Brennan<sup>1</sup>, D. A. Fein<sup>2</sup> and M. Barton<sup>2</sup>, (1)Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT
- 3:15 116.006 Examining Sex Differences in Item Endorsement on the Modified Checklist for Autism in Toddlers (M-CHAT). N. N. Ludwig<sup>1</sup>, D. L. Robins<sup>1</sup> and D. A. Fein<sup>2</sup>, (1)Georgia State University, Atlanta, GA, (2)University of Connecticut, Storrs, CT
- 3:30 116.007 Using the DISCO to Understand Associated Symptoms and Associated Developmental Conditions. S. R. Leekam<sup>1</sup>, J. Turk<sup>2</sup> and I. A. van Berckelaer-Onnes<sup>3</sup>, (1)Park Place, Cardiff University, Cardiff, Wales, (2)Sunshine House, London, England, (3)Clinical Child and Adolescent Studies, Leiden University, Leiden, Netherlands
- 3:45 116.008 Simons Variation in Individuals Project: Characterizing the Phenotype of 16p11.2 Deletion Syndrome. E. Hanson<sup>1,2</sup>, R. P. Goin-Kochel<sup>3</sup>, J. A. Burko<sup>2</sup>, B. M. Cerban<sup>2</sup>, W. Chung<sup>4</sup>, S. M. Kanne<sup>3</sup>, A. Laakman<sup>3</sup>, A. Lian Cavanagh<sup>2</sup>, R. McNally Keehn<sup>1,2</sup>, F. K. Miller<sup>5</sup>, J. E. Olson<sup>2</sup>, A. V. Snow<sup>1,2</sup>, L. Green Snyder<sup>2</sup>, J. E. Spiro<sup>6</sup>, A. D. Stevens<sup>7</sup>, N. Visyak<sup>2</sup>, J. Tjernagel<sup>6</sup>, J. R. Wenegrat<sup>7</sup> and R. Bernier<sup>7</sup>, (1)Harvard Medical School, Boston, MA, (2)Children's Hospital Boston, Boston, MA, (3)Baylor College of Medicine, Houston, TX, (4)Columbia University, New York, NY, (5)University of Michigan, Ann Arbor, MI, (6)Simons Foundation, New York, NY, (7)University of Washington, Seattle, WA

Poster Sessions

117 - Clinical Phenotype

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 1 117.001 Television and Video Game Use Among Children with ASD Compared to Typically Developing Siblings. M. O. Mazurek<sup>1</sup>, K. Soh<sup>2</sup> and C. Wenstrup<sup>2</sup>, (1)Health Psychology, University of Missouri, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 2:00 2 117.002 A Comparative Analysis of Three Autism Spectrum Disorder Screening Measures in a Clinical Population. C. Corsello<sup>1</sup>, T. E. Gadowski<sup>2</sup>, J. A. Estabillo<sup>2</sup>, N. Akshoomoff<sup>3</sup> and J. Sebat<sup>4</sup>, (1)Rady Children's Hospital, San Diego, CA, (2)Psychiatry, University of California, San Diego, La Jolla, CA, (3)Department of Psychiatry, University of California, San Diego, La Jolla, CA, (4)Department of Psychiatry, University of California, San Diego, La Jolla, CA
- 3:00 3 117.003 A New Scoring Algorithm of Autism Diagnostic Interview-Revised (ADI-R) Using Signal Detection Theory Based Analysis. S. H. Kim<sup>1</sup>, J. Zhang<sup>1</sup> and C. E. Lord<sup>2</sup>, (1)University of Michigan, Ann Arbor, MI, (2)Weill Cornell Medical College, White Plains, NY
- 1:00 4 117.004 A Preliminary Analysis of Multi-Level ASD Screening: M-CHAT-R & STAT. M. Khowaja<sup>1</sup>, D. L. Robins<sup>2</sup> and L. B. Adamson<sup>3</sup>, (1)Georgia State University, Atlanta, GA, (2)Georgia State University, Atlanta, GA, (3)Psychology, Georgia State University, Atlanta, GA
- 2:00 5 117.005 ADOS Module 4: Increases in Sensitivity and Comparability to Other Modules Using a Revised Diagnostic Algorithm. V. Hus<sup>1</sup> and C. E. Lord<sup>2</sup>, (1)University of Michigan, Ann Arbor, MI, (2)Weill Cornell Medical College, White Plains, NY
- 3:00 6 117.006 Ascertainment of Quantitative Autistic Traits in a National Survey Involving 22,529 Japanese Schoolchildren. Y. Kamio<sup>1</sup>, N. Inada<sup>1</sup>, A. Moriwaki<sup>1</sup>, M. Kuroda<sup>2</sup> and J. N. Constantino<sup>3</sup>, (1)National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan, (2)Shukutoku University, Chiba, Japan, (3)Washington University School of Medicine, Saint Louis, MO
- 1:00 7 117.007 Characteristics of Children Misidentified by the SCQ in a Clinic-Referred Sample. A. N. Esler<sup>1</sup> and J. E. Choi<sup>2</sup>, (1)Pediatrics, University of Minnesota, Minneapolis, MN, (2)Department of Child and Adolescent Psychiatry, University of California, San Francisco, CA
- 2:00 8 117.008 Comparisons Between the DISCO and the ADI-R and the ADOS. I. Noens<sup>1</sup> and G. Nygren<sup>2</sup>, (1)K.U. Leuven, Parenting and Special Education Research Unit, Leuven Autism Research, Leuven, Belgium, (2)Department of Neuroscience and Physiology, Child and Adolescent Psychiatry, Sahlgrenska University Hospital, Gothenburg, Sweden
- 3:00 9 117.009 Cross-Informant Reliability & Validity of Autism Screening Using the First Year Inventory in Israel. A. Ben-Sasson<sup>1</sup>, S. Meyer<sup>1,2</sup> and H. Amit Ben-Simhon<sup>1,3</sup>, (1)University of Haifa, Haifa, Israel, (2)Child Development Center at Maccabi Hod Hasharon, Kfar Saba, Israel, (3)Child Development Center Maccabi Haifa, Haifa, Israel



- 1:00 10 117.010 Early Autism Screening and Identification (EASI) Clinic: A Nurse Practitioner and Physician Clinic Model. M. T. Ott<sup>1</sup>, J. Plumb<sup>2</sup>, S. Vogel<sup>3</sup>, R. Eikov<sup>1</sup>, M. McCullough<sup>1</sup>, C. Colameco<sup>4</sup> and S. E. Levy<sup>5</sup>, (1)Child Development, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Child Development, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Communication Disorders, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)Children's Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA
- 2:00 11 117.011 NDAR, a Resource to Help Define and Improve Phenotype and Sub-Phenotype Definition in Autism Research. S. I. Novikova<sup>1</sup>, S. H. Kim<sup>2</sup>, A. Thurm<sup>3</sup>, B. Koser<sup>1</sup>, M. Martin<sup>1</sup>, C. Shugars<sup>1</sup>, D. Hall<sup>4</sup> and G. F. Farber<sup>5</sup>, (1)National Institute of Mental Health, Rockville, MD, (2)University of Michigan Autism and Communication Disorders Center, Ann Arbor, MI, (3)National Institutes of Health - National Institute of Mental Health, Bethesda, MD, (4)National Institute of Mental Health (NIMH), Rockville, MD, (5)Office of Technology Development and Coordination, National Institute of Mental Health, Rockville, MD
- 3:00 12 117.012 Psychometric Analysis of the RAADS Screen Scale for Adult ASD. J. Eriksson<sup>1</sup> and S. Bejerot, Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden
- 1:00 13 117.013 Screening Measures and Diagnostic Outcomes in Young Children Evaluated for An Autism Spectrum Disorder. K. Guest<sup>1</sup>, S. E. O'Kelley<sup>2</sup> and F. J. Biasini<sup>1</sup>, (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)UAB Civitan-Sparks Clinics, Birmingham, AL
- 2:00 14 117.014 Simons Simplex Collection: ADOS and ADI-R Training and Reliability Maintenance in Multi-Site Phenotyping Research. J. E. Olson<sup>1,2</sup>, L. Green-Synder<sup>1,2</sup>, E. Brooks<sup>1,3</sup>, A. N. Esler<sup>4</sup>, K. Gotham<sup>1</sup>, F. K. Miller<sup>2,5</sup>, S. Risi<sup>1</sup>, J. Tjebm<sup>1,3</sup>, L. C. White<sup>1,3</sup> and C. E. Lord<sup>1,6</sup>, (1)University of Michigan Autism & Communication Disorders Center, Ann Arbor, MI, (2)Children's Hospital Boston/Harvard Medical Center, Boston, MA, (3)Simons Foundation, New York, NY, (4)Pediatric Clinical Neuroscience, University of Minnesota, Minneapolis, MN, (5)University of Michigan, Ann Arbor, MI, (6)Institute for Brain Development, Weill Cornell Medical College, White Plains, NY
- 3:00 15 117.015 The First Year Inventory: Comparing Parent Report and Clinical Observation in High and Low-Risk for ASD Infants At 12 Months. G. M. Chen<sup>1</sup>, J. P. Rowberry<sup>2</sup>, S. Macari<sup>1</sup>, D. Campbell<sup>1</sup> and K. Chawarska<sup>1</sup>, (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Pediatrics, Yale University School of Medicine, New Haven, CT
- 1:00 16 117.016 The Influence of Examiner and Observer Level of Experience on the Inter-Rater Reliability of ADOS Item and Algorithm Scores and Diagnostic Outcomes. G. Pasco<sup>1</sup>, K. Hudry<sup>2</sup>, S. Chandler<sup>1</sup>, T. Charman<sup>1</sup> and & the BASIS Team<sup>3</sup>, (1)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (2)La Trobe University, Bundoora, VIC, Australia, (3)British Autism Study of Infant Siblings, London, United Kingdom
- 2:00 17 117.017 The Modified Checklist for Autism in Toddlers: A Follow up Study Investigating the Early Detection of Autism Spectrum Disorders in a Low Risk Sample. C. Chlebowski<sup>1</sup>, D. L. Robins<sup>2</sup>, M. Barton<sup>1</sup> and D. A. Fein<sup>1</sup>, (1)University of Connecticut, Storrs, CT, (2)Georgia State University, Atlanta, GA
- 3:00 18 117.018 Understanding the Diagnostic Process of Autism Spectrum Disorders: What Methods Are Used and Who Is Making Diagnoses?. S. M. Brown<sup>1</sup>, C. A. McMorris<sup>1</sup>, J. H. Schroeder<sup>1</sup>, J. M. Bebko<sup>1</sup> and J. J. A. Holden<sup>2</sup>, (1)Department of Psychology, York University, Toronto, ON, Canada, (2)Psychiatry & Physiology, Queen's University, Kingston, ON, Canada
- 1:00 19 117.019 Validity of the Social Responsiveness Scale to Differentiate HF-ASD From ODD/CD. H. Musch<sup>1</sup> and C. M. Freitag<sup>2</sup>, (1)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, JW Goethe University, Frankfurt Main, Germany, (2)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, JW Goethe University, Frankfurt am Main, Germany
- 2:00 20 117.020 Diagnostic Stability of Autism Spectrum Disorders Among Children and Siblings of Children with An Autism Spectrum Disorder Diagnosis. A. J. Hinnebusch<sup>1</sup>, K. Carr<sup>2</sup> and D. A. Fein<sup>3</sup>, (1)Clinical Psychology, The University Of Connecticut, Manchester, CT, (2)University of Connecticut, Storrs, CT, (3)Department of Psychology, University of Connecticut, Storrs, CT
- 3:00 21 117.021 Syndrome Specific and Non-Syndrome Specific Predictors of Developmental Change in Higher Functioning Children with Autism. K. E. Ono<sup>1</sup>, H. A. Henderson<sup>2</sup>, C. Hileman<sup>3</sup> and P. C. Mundy<sup>3</sup>, (1)University of Miami, Psychology, Miami, FL, (2)University of Miami, Coral Gables, FL, (3)MIND Institute, UC Davis, Sacramento, CA
- 1:00 22 117.022 Prospective Case Study of Siblings of Children with Autism Spectrum Disorders in Japan. F. Someki<sup>1</sup>, T. Miyachi<sup>2</sup>, K. J. Tsuchiya<sup>1</sup>, K. Matsumoto<sup>1</sup>, Y. Seno<sup>3</sup>, S. Nakajima<sup>1</sup> and M. Tsujii<sup>1</sup>, (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Nagoya City University Hospital, Nagoya, Japan, (3)Department of Educational and Developmental Science, Aichi Prefectural University, Nagakute, Japan, (4)Department of Contemporary Sociology, Chukyo University, Nagoya, Japan
- 2:00 23 117.023 Gender Differences in Pragmatic Language Features Associated with the Broad Autism Phenotype Among Parents of Children with Autism. J. Klusek<sup>1</sup> and M. Losh<sup>2</sup>, (1)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (2)The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL
- 3:00 24 117.024 Specific Phenotypes in Autism Spectrum Disorders Are More Prevalent in Affected Females. E. Ben Itzchak<sup>1</sup>, S. Ben-Shachar<sup>2</sup> and D. A. Zachor<sup>3</sup>, (1)Communication Disorders, Ariel University Center of Samaria, Ariel, Israel, (2)The Genetic Institute, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel, (3)Tel Aviv University / Assaf Harofeh Medical Center, Zerifin, Israel



- 1:00 25 117.025 Autism Spectrum Disorder: A Gender Defiant Disorder. S. Bejerot<sup>1</sup>, J. M. Eriksson<sup>2</sup>, M. B. Humble<sup>3</sup> and E. Eriksson<sup>4</sup>, (1)Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, (2)Karolinska Institutet, Stockholm, Sweden, (3)Clinical Neuroscience, Uppsala University Hospital, Uppsala, Sweden, (4)Department of Pharmacology, Institute of Neuroscience and Physiology, Göteborg, Sweden
- 2:00 26 117.026 Gender Differences in Clinical Presentation of Autism Spectrum Disorders. Y. J. Howe<sup>1</sup>, Y. E. Yatchmink<sup>1</sup> and E. M. Morrow<sup>2</sup>, (1)Division of Developmental Behavioral Pediatrics, Hasbro Children's Hospital, Brown Alpert Medical School, Providence, RI, (2)Molecular Biology, Cell Biology, & Biochemistry and Psychiatry & Human Behavior, Brown University, Providence, RI
- 3:00 27 117.027 Gender Differences in Emotional and Behavioral Characteristics of Children with ASD. W. T. Brooks<sup>1</sup> and E. M. Butter<sup>2</sup>, (1)1581 Dodd Dr., The Ohio State University Nisonger Center, Columbus, OH, (2)Nationwide Children's Hospital, Westerville, OH
- 1:00 ▶ 28 117.028 Disparity in Report of Autism-Related Behaviors by Child Sex and SES: Findings From a Population-Based Study in Taiwan. P. C. Tsai<sup>1</sup>, L. C. Lee<sup>1</sup>, I. T. Li<sup>2</sup>, R. A. Harrington<sup>1</sup>, P. Yang<sup>3</sup>, C. L. Chang<sup>4</sup> and F. W. Lung<sup>5</sup>, (1)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Calo Hospital, Pingtung, Taiwan, (3)Psychiatry, Kaohsiung Medical University, Kaohsiung, Taiwan, (4)Psychiatry, Kaohsiung Armed Forces General Hospital, Kaohsiung, Taiwan, (5)Taipei City Psychiatric Center, Taipei City Hospital, Taipei, Taiwan
- 2:00 29 117.029 Evaluating Interactions Between Autism Severity and Typically Developing Adolescent Siblings' Resources and Coherence Levels. L. O. Smith<sup>1</sup> and J. H. Elder<sup>2</sup>, (1)University of Florida, Palm Harbor, FL, (2)College of Nursing, University of Florida, Gainesville, FL
- 3:00 30 117.030 Correspondance Between Maternal Concerns and Concurrent Infant Behavior in 12-Month-Old Infants At Risk for Autism. M. R. Thompson<sup>1</sup>, H. Tager-Flusberg<sup>1</sup> and C. A. Nelson<sup>2</sup>, (1)Department of Psychology, Boston University, Boston, MA, (2)Laboratories of Cognitive Neuroscience, Harvard Medical School/ Children's Hospital, Boston, MA
- 1:00 31 117.031 The Early Developmental Trajectory of Initiating Joint Attention, but Not Expressive Vocabulary, Predicts Later ASD Severity in ASD-Sibs. L. V. Ibanez<sup>1</sup>, D. S. Messinger<sup>2</sup>, Z. Warren<sup>3</sup> and W. L. Stone<sup>4</sup>, (1)Psychology/ CHDD, University of Washington, Seattle, WA, (2)Psychology, University of Miami, Coral Gables, FL, (3)Vanderbilt University, Nashville, TN, (4)University of Washington, Seattle, WA
- 2:00 32 117.032 Cognitive Profiles of Siblings of Individuals with ASD. J. M. Wolf, P. Ventola and K. A. Pelphrey, Child Study Center, Yale University, New Haven, CT
- 3:00 ▶ 33 117.033 Excess of Non-Verbal Cases of Autism Spectrum Disorders (ASDs) Presenting to Orthodox Clinical Practice in Africa: A Trend Possibly Resulting From Late Diagnosis and Intervention. M. O. Bakare<sup>1</sup>, Upper Chime, New Haven, Federal Neuro-Psychiatric Hospital, Upper Chime, New Haven, Enugu, Enugu State, Nigeria, Enugu, Nigeria
- 1:00 34 117.034 Predicting Externalizing Behavior in Children with An Autism Spectrum Disorder Using the Child Routines Questionnaire. M. Pennick<sup>1</sup>, L. Greening<sup>2</sup>, F. J. Biasini<sup>1</sup> and L. Stoppelbein<sup>1</sup>, (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Psychiatry, University of Mississippi Medical Center, Jackson, MS
- 2:00 35 117.035 Restricted, Repetitive Behavior: A Comparison of Children with Autism Spectrum Disorder, Obsessive-Compulsive Disorder, Down Syndrome and Two Typical Control Groups. D. W. Evans<sup>1</sup>, L. Scahill<sup>2</sup>, P. T. Orr<sup>3</sup>, S. M. Myers<sup>4</sup>, T. Challman<sup>4</sup>, G. S. Gerhard<sup>3</sup>, S. Lazar<sup>1</sup>, A. Morena De Luca<sup>3</sup> and D. H. Ledbetter<sup>3</sup>, (1)Bucknell University, Lewisburg, PA, (2)School of Medicine, Yale University, New Haven, CT, (3)Genomic Medicine, Geisinger Health System, Danville, PA, (4)Neurodevelopmental Pediatrics, Geisinger Health System, Danville, PA
- 3:00 36 117.036 Idiosyncratic Use of Language and Unusual References in Narratives of Optimal Outcome Children with a History of Autism Spectrum Disorders. J. Suh<sup>1</sup>, I. M. Eigsti<sup>1</sup>, M. Barton<sup>1</sup>, L. Naigles<sup>1</sup>, S. Strazza<sup>1</sup>, A. Orinstein<sup>1</sup>, E. Troyb<sup>1</sup>, K. E. Tyson<sup>1</sup>, M. Helt<sup>1</sup>, M. A. Rosenthal<sup>1</sup>, R. T. Schultz<sup>2</sup>, M. C. Stevens<sup>3</sup>, E. A. Kelley<sup>4</sup> and D. A. Fein<sup>1</sup>, (1)University of Connecticut, Storrs, CT, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)The Institute of Living, Hartford Hospital/Yale University, Hartford, CT, (4)Department of Psychology, Queen's University, Kingston, ON, Canada
- 1:00 37 117.037 The Behavior and Sensory Interests Questionnaire: Validation in a Sample of Children with Autism Spectrum Disorder. R. McNally Keehn<sup>1,2</sup>, N. Visyak<sup>1</sup>, E. Thorpe<sup>1</sup>, L. Harvey<sup>3</sup>, E. Baroni<sup>4</sup>, R. Hundley<sup>5</sup> and E. Hanson<sup>1,2</sup>, (1)Division of Developmental Medicine, Children's Hospital Boston, Boston, MA, (2)Harvard Medical School, Boston, MA, (3)University of Michigan Autism & Communication Disorders Center (UMACC), Ann Arbor, MI, (4)University of Maine, Orono, ME, (5)Pediatrics, Vanderbilt University, Nashville, TN
- 2:00 38 117.038 Investigating the Association Between Anxiety and Fixed Interests, Repetitive Behaviors in Preschool Children with ASD. K. A. Baird<sup>1</sup>, P. Szatmari<sup>2</sup>, S. Georgiades<sup>3</sup>, E. Duku<sup>4</sup>, S. E. Bryson<sup>5</sup>, E. Fombonne<sup>6,7</sup>, W. Roberts<sup>8</sup>, I. M. Smith<sup>5</sup>, T. Vaillancourt<sup>9</sup>, J. Volden<sup>10</sup>, C. Waddell<sup>11</sup> and L. Zwaigenbaum<sup>10</sup>, (1)Psychology, Neuroscience, and Behaviour, McMaster University, Ancaster, ON, Canada, (2)The Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (3)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (4)Room 203, Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (5)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (6)Montreal Children's Hospital, Montreal, QC, Canada, (7)Psychiatry, McGill University, Montreal, QC, Canada, (8)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (9)University of Ottawa, Ottawa, ON, Canada, (10)University of Alberta, Edmonton, AB, Canada, (11)Simon Fraser University, Vancouver, BC, Canada
- 3:00 39 117.039 Cognitive Profiles and ASD Symptomatology. J. E. Elgin<sup>1</sup>, K. Ankenman, L. Vincent and R. Bernier, University of Washington, Seattle, WA

- 1:00 40 117.040 Overfocusing: A Possible Extension of the Broad Autism Phenotype. R. Allen<sup>1</sup> and M. Kinsbourne, Psychology, The New School for Social Research, New York, NY
- 2:00 41 117.041 Sensory Characteristics of Japanese Children and Youth with Autism Spectrum Disorders. T. Hagiwara<sup>1</sup> and R. Iwanaga<sup>2</sup>, (1)Hokkaido University of Education, Asahikawa, Japan, (2)Nagasaki University, Nagasaki, Japan
- 3:00 42 117.042 Patterns of ASD-Onset and Parents' Beliefs about Causes. R. P. Goin-Kochel<sup>1</sup>, S. Mire<sup>2</sup> and A. G. Dempsey<sup>3</sup>, (1)Baylor College of Medicine, Houston, TX, (2)Department of Education, University of Houston, Houston, TX, (3)Center for Clinical Research & Evidence-Based Medicine, University of Texas Health Science Center at Houston, Houston, TX
- 1:00 43 117.043 Family History of Depression and Repetitive Behaviors in ASD. L. Nations<sup>1</sup>, J. Lee<sup>2</sup>, J. R. Gilbert<sup>1</sup>, M. A. Pericak-Vance<sup>1,3</sup> and M. L. Cuccaro<sup>1</sup>, (1)John P Hussman Institute for Human Genomics, Miami, FL, (2)University of Miami, Miami, FL, (3)Hussman Institute for Human Genomics, University of Miami, Miami, FL
- 2:00 44 117.044 The Broader Autism Phenotype As a Predictor for Autism Spectrum Disorders. J. A. Burko<sup>1</sup>, C. M. Slater<sup>1</sup>, L. M. Caccamo<sup>1</sup>, E. Hanson<sup>2,3</sup> and M. Gregas<sup>4</sup>, (1)Developmental Medicine, Children's Hospital Boston, Boston, MA, (2)Children's Hospital Boston, Boston, MA, (3)Harvard Medical School, Boston, MA, (4)Children's Hospital Boston, Boston, MA
- 3:00 ▶ 45 117.045 Broader Autism Phenotype In Parents of Children with Autism, A Case Control Study From Tunisia. N. Gaddour<sup>1</sup>, N. Boussaid<sup>2</sup>, S. Missaoui<sup>1</sup> and L. Gaha<sup>1</sup>, (1)University of Monastir, Monastir, Tunisia, (2)Faculty of Medicine, University of Monastir, Monastir, Tunisia
- 1:00 46 117.046 Use of Specific Language Constructs for a Family Genetics Study of Autism and Language Impairment. Z. Fermano<sup>1</sup>, J. Flax<sup>1</sup>, A. Hare<sup>1</sup>, B. Zimmerman-Bier<sup>2</sup>, C. Bartlett<sup>3</sup>, S. Buyske<sup>4</sup> and L. Brzustowicz<sup>1</sup>, (1)Department of Genetics, Rutgers University, Piscataway, NJ, (2)Saint Peter's University Hospital, New Brunswick, NJ, (3)The Research Institute at Nationwide Children's Hospital & The Ohio State University, Columbus, OH, (4)Department of Statistics, Rutgers University, Piscataway, NJ
- 2:00 47 117.047 Broad Autism Phenotype in Typically Developing Children Predicts Performance on An Eye-Tracking Measure of Joint Attention. M. R. Swanson<sup>1</sup>, V. Erstenyuk<sup>2</sup>, M. Jyotishi<sup>3</sup>, F. Masry<sup>3</sup>, G. Serlin<sup>4</sup> and M. J. Siller<sup>1,5</sup>, (1)Biopsychology and Behavioral Neuroscience Subprogram in Psychology, The Graduate Center of City University of New York, NY, (2)Psychology, Hunter College, City University of New York, NY, (3)Psychology, Hunter College, New York, NY, (4)Biopsychology and Behavioral Neuroscience Subprogram in Psychology, Graduate Center of the City University of New York, NY, (5)Psychology, Hunter College of the City University of New York, New York, NY
- 3:00 48 117.048 The Long-Term Course of Autism. Symptomatology and Social Adaptation Across the Life Span in a German Sample with Autism Spectrum Disorders. E. Duketis<sup>1</sup>, K. Teufel, R. Weber and C. M. Freitag, Child and Adolescent Psychiatry, Goethe University, Frankfurt, Germany
- 1:00 49 117.049 Social and Sexual Knowledge and Interests of High-Functioning Adults with ASD. M. E. Van Bourgondien<sup>1</sup>, TEACCH Division, The University of North Carolina, Chapel Hill, NC
- 2:00 50 117.050 Perceptions of Social Functioning In Young Children with ASD: Comparing Parent and Teacher Reports. M. B. Jackson<sup>1</sup>, M. Adolphson Horn<sup>1</sup> and E. Laugeson<sup>2</sup>, (1)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (2)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 3:00 51 117.051 Exploring the Associated Features of ASD. R. Kent<sup>1</sup>, S. R. Leekam<sup>1</sup>, J. Gould<sup>2</sup> and L. Wing<sup>2</sup>, (1)Park Place, Cardiff University, Cardiff, United Kingdom, (2)National Autistic Society, Kent, UK, United Kingdom
- 1:00 52 117.052 Exploring the Sensory Symptoms in Adults with ASD Through Self-Report. L. White<sup>1</sup>, R. Kent<sup>2</sup>, S. R. Leekam<sup>2</sup>, D. J. McGonigle<sup>3</sup>, J. Gould<sup>4</sup> and A. Kourkoulou<sup>2</sup>, (1)WARC, School of Psychology, Cardiff University, Cardiff, United Kingdom, (2)Park Place, Cardiff University, Cardiff, United Kingdom, (3)Schools of Biosciences/Psychology, Cardiff University, Cardiff, United Kingdom, (4)National Autistic Society, Kent, United Kingdom
- 2:00 53 117.053 Adults Presenting for a First Diagnosis of An Autism Spectrum Disorder: Issues and Opportunities. K. A. Loveland<sup>1</sup> and W. B. Bonnen<sup>2</sup>, (1)Psychiatry & Behavioral Sciences, University of Texas Health Science Center, Houston, Houston, TX, (2)Psychiatry & Behavioral Sciences, University of Texas Health Science Center Houston, Houston, TX
- 3:00 54 117.054 Adaptive Functioning on the Borderlands of the Autism Spectrum. R. A. Varrall<sup>1</sup>, D. H. Skuse<sup>2</sup> and W. P. Mandy<sup>3</sup>, (1)Great Ormond Street Hospital, London, United Kingdom, (2)Behavioural and Brain Sciences, Institute of Child Health, University College, London, United Kingdom, (3)University College, London, United Kingdom
- 1:00 55 117.055 Sensory Subtypes in Children with ASD: Latent Profile Analysis Using a National Survey of Sensory Features. K. K. Ausderau<sup>1</sup>, J. Sideris<sup>2</sup> and G. T. Baranek<sup>3</sup>, (1)University of North Carolina, Chapel Hill, NC, (2)Frank Porter Graham Institute, Chapel Hill, NC, (3)Occupational Science, University of North Carolina, Chapel Hill, NC
- 2:00 56 117.056 Autistic Characteristics Before and After the Age of Three in Children with Autism Spectrum Disorder. J. Shenouda<sup>1</sup>, S. Neves and W. Zahorodny, Pediatrics, UMDNJ-New Jersey Medical School, Newark, NJ
- 3:00 57 117.057 Developmental Phenotypes and Severity Profiles of Autism Spectrum Disorders in Preschool Children. K. A. Penner<sup>1,2</sup>, D. Chudley<sup>3</sup> and A. Hanlon-Deerman<sup>1,2</sup>, (1)Pediatrics and Child Health, University of Manitoba, Winnipeg, MB, Canada, (2)Child Development Clinic, Children's Hospital, Winnipeg, MB, Canada, (3)University of Manitoba, Winnipeg, MB, Canada

- 1:00 58 117.058 Quantitative Analysis of Prosody in Conversational Speech in Autism Spectrum Disorders and in Developmental Language Disorders. G. Kiss<sup>1</sup>, J. van Santen<sup>2</sup>, E. T. Prud'hommeaux<sup>2</sup> and L. M. Black<sup>2</sup>, (1)CSLU, BME, OHSU, Beaverton, OR, (2)Center for Spoken Language Understanding, Oregon Health & Science University, Beaverton, OR
- 2:00 59 117.059 Narrative Ability In Autism and the Broad Autism Phenotype. A. H. Hogan-Brown<sup>1</sup>, N. Friend, J. Lebersfeld, L. F. Ayres and M. Losh, The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL
- 3:00 60 117.060 Internalizing Problems, Socialization Issues, and Attention Deficit/Hyperactivity Issues of Children with Autism Born Late Preterm. C. M. Brewton<sup>1</sup>, A. T. Dovi<sup>1</sup>, E. Allain<sup>1</sup> and A. G. Dempsey<sup>2</sup>, (1)School Psychology, University of Houston, Houston, TX, (2)Center for Clinical Research & Evidence-Based Medicine, University of Texas Health Science Center at Houston, Houston, TX

**Poster Sessions**  
**118 - Genetic, Prenatal and Biological Risk Factors**  
 1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 ▶ 61 118.061 Prevalence of Emotional and Behavioural Disorders in Young Children with Autistic Disorder in Jamaica. M. Samms-Vaughan<sup>1</sup>, J. A. T. Reece, S. Pellington and S. C. Smile, The University of the West Indies, Kingston 7, Jamaica
- 2:00 62 118.062 Relationship of Neonatal Head Ultrasound Abnormalities to Adult Autism Spectrum Disorders in a Low Birthweight Population. T. Z. Movsas<sup>1</sup>, J. A. Pinto-Martin<sup>2</sup>, A. H. Whitaker<sup>3</sup>, J. F. Feldman<sup>4</sup>, J. M. Lorenz<sup>5</sup>, S. Korzeniewski<sup>6</sup>, S. E. Levy<sup>7</sup> and N. S. Paneth<sup>1</sup>, (1)Dept of Epidemiology, College of Human Medicine, Michigan State University, East Lansing, MI, (2)University of Pennsylvania School of Nursing and School of Medicine, Philadelphia, PA, (3)Dept of Psychiatry, Div of Child & Adolescent Psychiatry, New York State Institute, New York, NY, (4)Dept of Psychiatry, Division of Child and Adolescent Psychiatry, New York State Institute, New York, NY, (5)Dept of Pediatrics, New York Presbyterian Hospital-Columbia University Medical Center, New York, NY, (6)Perinatal Epidemiology Unit, Wayne State Univ School of Medicine, Detroit, MI, (7)Center for Autism Research, Children's Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA
- 3:00 63 118.063 Longitudinal Measures of Community and Social Participation in Young Adults with Autism. E. Myers<sup>1</sup>, G. Stobbe<sup>2</sup>, B. Davis<sup>1</sup> and K. Bjornson<sup>3</sup>, (1)Pediatrics, University of Washington, Seattle, WA, (2)Neurology and Psychiatry, University of Washington, Seattle, WA, (3)Pediatrics, University of Washington, Seattle, WA

- 1:00 ▶ 64 118.064 Seafood Consumption and Blood Mercury Concentrations in Jamaican Children with and without Autism Spectrum Disorders. M. H. Rahbar<sup>1,2</sup>, M. Samms-Vaughan<sup>3</sup>, K. A. Loveland<sup>4</sup>, M. Ardjomand-Hessabi<sup>1</sup>, Z. Chen<sup>1</sup>, J. Bressler<sup>5</sup>, S. Pellington<sup>3</sup>, M. L. Grove<sup>5</sup>, K. M. Bloom<sup>1</sup>, D. A. Pearson<sup>4</sup>, G. C. Lalor<sup>6</sup> and E. Boerwinkle<sup>2</sup>, (1)Biostatistics, Epidemiology, Research Design (BERD) Core, Center for Clinical and Translational Sciences (CCTS), The University of Texas Health Science Center at Houston, Houston, TX, (2)Epidemiology, Human Genetics, and Environmental Sciences, The University of Texas School of Public Health, Houston, TX, (3)Department of Child Health, The University of the West Indies, Kingston 7, Jamaica, (4)Dept. of Psychiatry & Behavioral Sciences, University of Texas Medical School, Houston, TX, (5)Human Genetics Center, The University of Texas School of Public Health, Houston, TX, (6)International Centre for Environmental Nuclear Science, The University of the West Indies, Kingston, Jamaica
- 2:00 65 118.065 Genetic Polymorphism of Methylenetetrahydrofolate Reductase in Children with Autism in Northeast China. K. Wu<sup>1</sup>, L. Xia<sup>2</sup>, D. Zhao<sup>1</sup>, W. Xia<sup>1</sup> and L. J. Wu<sup>1</sup>, (1)Harbin Medical University, Harbin, China, (2)The First Hospital of Harbin Medical University, Harbin, China
- 3:00 66 118.066 Community Influenza Level and Risk of Autism Spectrum Disorders. O. Zerbo<sup>1</sup>, A. M. Iosif<sup>1</sup>, C. K. Walker<sup>1</sup> and I. Hertz-Picciotto<sup>1,2</sup>, (1)Public Health Sciences, University of California Davis, Davis, CA, (2)The UC Davis Medical Investigation of Neurodevelopmental Disorders (MIND) Institute, University of California Davis, Sacramento, CA
- 1:00 67 118.067 Intrauterine and Neonatal Levels of Neurotrophic Factors and Matrix Metalloproteinases-9 and Risk of Autism Spectrum Disorders. M. W. Abdallah<sup>1,2,3</sup>, B. D. Pearce<sup>4</sup>, N. Larsen<sup>3</sup>, K. Greaves-Lord<sup>5,6</sup>, E. C. Bonefeld-Jørgensen<sup>7</sup>, B. Nørgaard-Pedersen<sup>3</sup>, D. M. Hougaard<sup>3</sup>, E. L. Mortensen<sup>8</sup> and J. Grove<sup>9</sup>, (1)Department of Epidemiology, Aarhus University Faculty of Health Sciences, Aarhus C, Denmark, (2)Department of Psychiatry and Psychotherapy, Rostock University Hospital, Rostock, Germany, (3)Department of Clinical Biochemistry and Immunology, Statens Serum Institute, Copenhagen, Denmark, (4)Department of Epidemiology, Rollins School of Public Health, Emory University, Atlanta, GA, (5)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC - Sophia's Children's Hospital, Rotterdam, Netherlands, (6)Academie, Yulius, Rotterdam, Netherlands, (7)Center for Arctic Environmental Medicine & Unit of Cellular and Molecular Toxicology, Aarhus University Faculty of Health Sciences, Aarhus C, Denmark, (8)Institute of Public Health and Center for Healthy Aging, University of Copenhagen, Copenhagen, Denmark, (9)Department of Biomedicine and Bioinformatics Research Centre (BiRC), Aarhus University Faculty of Health Sciences, Aarhus, Denmark
- 2:00 ▶ 68 118.068 Behavior Changes Associated with Food Intake and Eating Disorders in Children with Autism in Oman. Y. M. Al-Farsi<sup>1</sup>, M. I. Waly<sup>1</sup>, M. Al-Sharbaty<sup>1</sup>, M. M. Al-Khaduri<sup>1</sup>, O. A. Al-Farsi<sup>1</sup>, M. Al-Shafae<sup>1</sup> and R. Deth<sup>2</sup>, (1)Sultan Qaboos University, Muscat, Oman, (2)Northeastern University, Boston, MA



- 3:00 ▶ 69 118.069 Association of Adverse Antenatal and Perinatal Events with Occurrence of Autism: A Case Control Study. Y. M. Al-Farsi<sup>1</sup>, M. M. Al-Khaduri<sup>1</sup>, M. Al-Sharbaty<sup>1</sup>, M. I. Waly<sup>1</sup>, O. A. Al-Farsi<sup>1</sup>, M. Al-Shafae<sup>1</sup> and R. Deth<sup>2</sup>, (1)Sultan Qaboos University, Muscat, Oman, (2)Northeastern University, Boston, MA
- 1:00 70 118.070 Assisted Reproduction Techniques and ASD. M. A. Stokes<sup>1</sup>, J. A. McGillivray<sup>2</sup>, J. A. Manjiviona<sup>3</sup>, K. Saunders<sup>4</sup> and T. Attwood<sup>5</sup>, (1)School of Psychology, Deakin University, Burwood, Australia, (2)Psychology, Deakin University, Burwood, Australia, (3)Department of Psychology, The University of Melbourne, Melbourne, Australia, (4)Private practitioner, Melbourne, Australia, (5)Psychology, Griffith University, Brisbane, Australia
- 2:00 71 118.071 In Utero Exposure to B2AR Agonists and Risk for Autism Spectrum Disorders. N. B. Gidaya<sup>1</sup>, B. K. Lee<sup>1</sup>, I. Burstyn<sup>1</sup>, E. L. Mortensen<sup>2</sup> and C. J. Newschaffer<sup>1</sup>, (1)Drexel University School of Public Health, Philadelphia, PA, (2)Institute of Public Health and Center for Healthy Aging, University of Copenhagen, Copenhagen, Denmark
- 3:00 72 118.072 Prenatal Influences on Autism Spectrum Disorders: Negative Evidence From a Twin Study. L. Meyer and H. H. Goldsmith, Psychology, University of Wisconsin-Madison, Madison, WI
- 1:00 73 118.073 Maternal Dietary Fat and Fatty Acid Intake in Association with Autism Spectrum Disorder. K. Lyall<sup>1,2</sup>, K. Munger<sup>2</sup>, E. O'Reilly<sup>2</sup>, S. L. Santangelo<sup>3,4,5</sup> and A. Ascherio<sup>2,5</sup>, (1)University of California, Davis, MIND Institute, Sacramento, CA, (2)Nutrition, Harvard School of Public Health, Boston, MA, (3)Department of Psychiatry, Harvard Medical School, Boston, MA, (4)Psychiatric and Neurodevelopmental Genetics Unit, Center for Human Genetic Research, Massachusetts General Hospital, Boston, MA, (5)Epidemiology, Harvard School of Public Health, Boston, MA
- 2:00 74 118.074 Maternal Immune-Mediated Conditions in Association with Child Immune-Related Outcomes and Autism Spectrum Disorders. K. Lyall<sup>1</sup>, P. Ashwood<sup>1</sup>, J. Van de Water<sup>1,2</sup> and I. Hertz-Picciotto<sup>1,2</sup>, (1)University of California, Davis, MIND Institute, Sacramento, CA, (2)University of California, Davis, CA
- 3:00 75 118.075 A Familial History of Pink Disease Identified As a Risk Factor for Autism Spectrum Disorders. K. Shandley and D. W. Austin, Faculty of Life and Social Sciences, Swinburne University of Technology, Hawthorn, Australia
- 1:00 76 118.076 The Fertility Behavior of Parents with Children with Autism. K. R. Makovi<sup>1</sup>, K. Y. Liu<sup>2,3</sup> and P. S. Bearman<sup>3</sup>, (1)Sociology, Columbia University, New York, NY, (2)Paul F. Lazarsfeld Center for the Social Sciences, New York, NY, (3)Columbia University, New York, NY
- 2:00 77 118.077 Maternal Hospitalization for Infection During Pregnancy and Risk of Autism Spectrum Disorders. B. K. Lee<sup>1</sup>, C. Dalman<sup>2</sup>, C. J. Newschaffer<sup>1</sup>, I. Burstyn<sup>1</sup>, Å. Blomström<sup>2</sup>, S. Idring<sup>2</sup>, H. Karlsson<sup>3</sup>, R. M. Gardner<sup>4</sup> and C. Magnusson<sup>2</sup>, (1)Drexel University School of Public Health, Philadelphia, PA, (2)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (3)The Stanley Neurovirology Laboratory, Johns Hopkins University School of Medicine, Baltimore, MD, (4)Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden
- 3:00 78 118.078 Genome-Wide DNA Methylation in Pregnancy – Preliminary Results From the EARLI Study. J. Feinberg<sup>1</sup>, S. Brown<sup>2</sup>, D. Hiller<sup>3</sup>, L. A. Croen<sup>4</sup>, I. Hertz-Picciotto<sup>5</sup>, C. J. Newschaffer<sup>6</sup>, A. Feinberg<sup>3</sup> and M. D. Fallin<sup>7</sup>, (1)Johns Hopkins School of Medicine, Baltimore, MD, (2)Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, (3)Center for Epigenetics, Johns Hopkins School of Medicine, Baltimore, MD, (4)Kaiser Permanente Division of Research, Oakland, CA, (5)Public Health Sciences, M.I.N.D. Institute, UC Davis, Davis, CA, (6)Drexel University School of Public Health, Philadelphia, PA, (7)Johns Hopkins School of Public Health, Baltimore, MD
- 1:00 79 118.079 Birth Weight in ASD-Affected Twin Pairs. W. Froehlich<sup>1</sup>, S. Cleveland<sup>1</sup>, A. Londono Tobon<sup>1</sup>, A. Torres<sup>1</sup>, J. M. Phillips<sup>1</sup>, B. Cohen<sup>2</sup>, T. Torigoe<sup>2</sup>, J. Miller<sup>2</sup>, A. Fedele<sup>2</sup>, J. Collins<sup>3</sup>, K. S. Smith<sup>3</sup>, L. Lotspeich<sup>1</sup>, L. A. Croen<sup>4</sup>, S. Ozonoff<sup>5</sup>, C. Lajonchere<sup>2</sup>, J. K. Grether<sup>3</sup>, N. Risch<sup>4,6</sup> and J. Hallmayer<sup>1</sup>, (1)Stanford University, Stanford, CA, (2)Autism Genetic Resource Exchange, Los Angeles, CA, (3)California Department of Public Health, Richmond, CA, (4)Kaiser Permanente, Division of Research, Oakland, CA, (5)MIND Institute, UC Davis, Sacramento, CA, (6)University of California, San Francisco, CA
- 2:00 80 118.080 Thyroid Hormones in Pregnancies At Elevated Risk of Autism Spectrum Disorders. I. Burstyn<sup>1</sup>, S. Devaraj<sup>2</sup>, L. A. Croen<sup>3</sup>, M. D. Fallin<sup>4</sup>, I. Hertz-Picciotto<sup>5</sup> and C. J. Newschaffer<sup>6</sup>, (1)1505 Race Street, Room 1332, Drexel University, Philadelphia, PA, (2)Baylor College of Medicine, Houston, TX, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)Johns Hopkins School of Public Health, Baltimore, MD, (5)University of California, Davis, CA, (6)Drexel University School of Public Health, Philadelphia, PA
- 3:00 81 118.081 Residential Proximity to Agricultural Pesticides and Cognitive and Behavioral Scores in the CHARGE Study. J. F. Shelton<sup>1</sup>, E. M. Geraghty<sup>2</sup>, D. J. Tancredi<sup>3</sup> and I. Hertz-Picciotto<sup>4,5</sup>, (1)UC Davis Department of Public Health Sciences, Davis, CA, (2)General Internal Medicine, UC Davis School of Medicine, Sacramento, CA, (3)UC Davis School of Medicine and Center for Healthcare Policy and Research, Sacramento, CA, (4)Department of Public Health Sciences, University of California, Davis, CA, (5)M.I.N.D. Institute, Sacramento, CA
- 1:00 82 118.082 Prenatal Biomarkers of Oxidative Stress and Reduced Methylation Capacity in An Autism High-Risk Pregnancy Cohort. S. J. James<sup>1</sup>, S. Melnyk<sup>1</sup>, L. A. Croen<sup>2</sup>, M. D. Fallin<sup>3</sup>, I. Hertz-Picciotto<sup>4</sup> and C. J. Newschaffer<sup>5</sup>, (1)University of Arkansas for Medical Sciences, Little Rock, AR, (2)Kaiser Permanente Division of Research, Oakland, CA, (3)Johns Hopkins School of Public Health, Baltimore, MD, (4)Public Health Sciences, M.I.N.D. Institute, UC Davis, Davis, CA, (5)Drexel University School of Public Health, Philadelphia, PA
- 2:00 83 118.083 Frequency of Autism Spectrum Disorder Among Children with Cerebral Palsy, Metropolitan Atlanta Developmental Disabilities Surveillance Program, 2006-2008. D. Christensen<sup>1</sup>, M. Yeargin-Allsopp, N. Doernberg and K. Van Naarden Braun, Centers for Disease Control and Prevention, Atlanta, GA



- 3:00 84 118.084 Folic Acid Supplements in Pregnancy and Severe Language Delay in Children. C. Roth<sup>1,2</sup>, P. Magnus<sup>3</sup>, S. Schjolberg<sup>1</sup>, C. Stoltenberg<sup>4</sup>, P. Surén<sup>5</sup>, I. W. McKeague<sup>2</sup>, G. Davey Smith<sup>6</sup>, T. Reichborn-Kjennerud<sup>7</sup> and E. Susser<sup>8,9</sup>, (1)Division of Mental Health, Norwegian Institute of Public Health, Oslo, Norway, (2)Columbia University, New York, NY, (3)Epidemiology, Norwegian Institute of Public Health, Oslo, Norway, (4)The Norwegian Institute of Public Health, Oslo, Norway, (5)Norwegian Institute of Public Health, Oslo, Norway, (6)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (7)Adult Mental Health, Norwegian Institute of Public Health, Oslo, Norway, (8)Columbia University, New York, NY, (9)New York State Psychiatric Institute, New York, NY
- 1:00 85 118.085 Maternal Chemical and Drug Intolerance: A Risk Factor for Autism and ADHD?. R. F. Palmer<sup>1</sup>, L. Heilbrun<sup>2</sup> and C. S. Miller<sup>1</sup>, (1)Family and Community Medicine, University of Texas Health Science Center, San Antonio, TX, (2)Family and Community Medicine, University of Texas Health Science Center, San Antonio, TX
- 2:00 86 118.086 Prenatal Cytokine Expression Profiles in An Autism High-Risk Pregnancy Cohort: Preliminary Results From the EARLI Study. V. Yau<sup>1</sup>, J. Van de Water<sup>2,3</sup>, L. A. Croen<sup>4</sup>, M. D. Fallin<sup>5</sup>, I. Hertz-Picciotto<sup>2,6</sup> and C. J. Newschaffer<sup>7</sup>, (1)Division of Research, Autism Research Program, Kaiser Permanente, Oakland, CA, (2)University of California, Davis, CA, (3)University of California, Davis, MIND Institute, Sacramento, CA, (4)Kaiser Permanente Division of Research, Oakland, CA, (5)Johns Hopkins School of Public Health, Baltimore, MD, (6)Public Health Sciences, M.I.N.D. Institute, UC Davis, Davis, CA, (7)Drexel University School of Public Health, Philadelphia, PA
- 3:00 87 118.087 Effects of Prenatal Stress, Prenatal Diet, and Maternal Genotype on Autistic-Like Behavior in Mice. K. L. Jones<sup>1</sup>, M. J. Will<sup>1</sup>, P. M. Hecht<sup>1</sup>, C. Giesing<sup>1</sup>, C. L. Parker<sup>1</sup>, K. Webb<sup>1</sup>, K. Poet<sup>1</sup>, K. Bohnert<sup>1</sup>, N. Ackermann<sup>1</sup>, E. Hayes<sup>1</sup>, M. McAnally<sup>1</sup>, A. Kohler<sup>1</sup>, K. Fritsche<sup>1</sup>, M. Tilley<sup>2</sup> and D. Q. Beversdorf<sup>3</sup>, (1)University of Missouri, Columbia, MO, (2)Central Methodist University, Fayette, MO, (3)University of Missouri, Columbia, MO
- 1:00 88 118.088 Prenatal Interaction Between Genotype and Stress in the Development of Autism Spectrum Disorder. P. Hecht<sup>1</sup>, K. L. Jones<sup>1</sup>, M. Tilley<sup>2</sup> and D. Q. Beversdorf<sup>3</sup>, (1)University of Missouri, Columbia, MO, (2)Central Methodist University, Fayette, MO, (3)Radiology, Neurology, Psychology, and Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 2:00 89 118.089 Using Data From the SC Autism and Developmental Disabilities Monitoring Project to Assess Perinatal and Neonatal Risk Factors for Autism. L. B. King<sup>1</sup>, J. S. Nicholas<sup>2</sup>, L. A. Carpenter<sup>1</sup>, J. Charles<sup>1</sup>, W. Jenner<sup>1</sup> and T. Hulse<sup>1</sup>, (1)Pediatrics, Medical University of South Carolina, Charleston, SC, (2)Medicine, Medical University of South Carolina, Charleston, SC

- 3:00 90 118.090 Artificial Reproductive Technology Exposure in Children with Autism Spectrum Disorders and Their Siblings. R. Maxim, MD<sup>1</sup>, E. S. Ambrecht<sup>2</sup>, J. K. Law<sup>3</sup>, C. M. Anderson<sup>3</sup>, C. Guild<sup>4</sup>, M. W. Baig<sup>5</sup>, D. H. Zand<sup>6</sup>, A. Nay<sup>7</sup>, R. Grimmer<sup>8</sup>, A. R. Marvin<sup>9</sup> and P. A. Law<sup>3</sup>, (1)Saint Louis University, Clayton, MO, (2)Center for Outcomes Research and Department of Pediatrics, Saint Louis University, St. Louis, MO, (3)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (4)Center for Outcomes Research and Department of Pediatrics., Saint Louis University, St. Louis, MO, (5)SSM Cardinal Glennon Children's Hospital, St. Louis, MO, (6)Saint Louis University School of Medicine, St. Louis, MO, (7)Saint Louis University, St. Louis, MO, (8)Saint Louis University, St. Louis, MO, (9)Kennedy Krieger Institute, Baltimore, MD
- 1:00 91 118.091 The Relationship Between Autism Spectrum Disorders and the Distribution of Hazardous Air Pollutants in Four New Jersey Counties. R. M. McWilliams<sup>1</sup>, D. E. Wartenberg<sup>2</sup> and N. J. Jain<sup>3</sup>, (1)Rutgers University, New Brunswick, NJ, (2)DEOM, UMDNJ — Robert Wood Johnson Medical School, Piscataway, NJ, (3)Epidemiology & Biostatistics, UMDNJ-RWJMS, Piscataway, NJ
- 2:00 92 118.092 Autism Spectrum Disorders and Attention Deficit Hyperactivity Disorder in a Low Birth Weight Cohort: Evidence for a Shared Familial Risk Factor. C. B. Christman<sup>1</sup>, A. H. Whitaker<sup>2</sup>, J. F. Feldman<sup>3</sup>, J. A. Pinto-Martin<sup>4</sup>, S. E. Levy<sup>5</sup>, A. E. Silberman<sup>6</sup>, N. S. Paneth<sup>7</sup> and J. M. Lorenz<sup>8</sup>, (1)Department of Pediatrics, Division of Neonatology, New York Presbyterian Hospital-Columbia University Medical Center, New York, NY, (2)Department of Psychiatry, Division of Child and Adolescent Psychiatry, New York State Psychiatric Institute, New York, NY, (3)Dept of Psychiatry, Division of Child and Adolescent Psychiatry, New York State Institute, New York, NY, (4)University of Pennsylvania School of Nursing and School of Medicine, Philadelphia, PA, (5)Center for Autism Research, Children's Hospital of Philadelphia/ University of Pennsylvania, Philadelphia, PA, (6)New York State Psychiatric Institute, New York, NY, (7)Dept of Epidemiology, College of Human Medicine, Michigan State University, East Lansing, MI, (8)Dept of Pediatrics, New York Presbyterian Hospital-Columbia University Medical Center, New York, NY

**Poster Sessions**  
**119 - Impact of Families and Quality of Life**  
 1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 93 119.093 Clinical Validation of the Family Life Impairment Scale in Families Raising a Toddler on the Autism Spectrum. N. Mian<sup>1</sup>, T. W. Soto<sup>2</sup>, F. Martinez-Pedraza<sup>2</sup>, M. Maye<sup>3,4</sup> and A. S. Carter<sup>5</sup>, (1)University of Massachusetts, Boston, MA, (2)University of Massachusetts, Boston, MA, (3)University of Michigan Autism and Communication Disorders Center (UMACC), Ann Arbor, MI, (4)Psychology, University of Massachusetts, Boston, MA, (5)University of Massachusetts, Boston, MA

- 2:00 94 119.094 Maternal Cortisol Regulation Patterns, Perceived Parental Stress and Attachment Representations: Impact of a Service Dog's Presence in Families of Children with ASD. S. M. Fecteau<sup>1</sup>, M. Trudel<sup>2</sup>, N. Champagne<sup>3</sup> and F. Picard<sup>4</sup>, (1)Education, University of Sherbrooke, Longueuil, QC, Canada, (2)Psychoeducation, University of Sherbrooke, Longueuil, QC, Canada, (3)Fondation Mira, Ste-Madeleine, QC, Canada, (4)Laval University, Ste-Foy, QC, Canada
- 3:00 95 119.095 Depression and Stress Levels in Parents of Young Children with Autism. C. Hess<sup>1</sup>, R. J. Landa<sup>1</sup> and S. Tek<sup>2</sup>, (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute for Autism and Related Disorders, Baltimore, MD
- 1:00 96 119.096 Parent Stress, Parent-Child Interactions, and Symptom Expression in At-Risk Infants. A. M. Steiner<sup>1</sup>, G. W. Gengoux<sup>2</sup>, A. Smith<sup>1</sup> and K. Chawarska<sup>1</sup>, (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Stanford University School of Medicine/Lucile Packard Children's Hospital, Stanford, CA
- 2:00 97 119.097 Parenting Stress and Aberrant Behavior in Children with Autism Participating in a Multi-Disciplinary Program Providing Medical Care, Dietetic Support, Educational Assessment and Family Resources. L. Hewitson<sup>1</sup>, A. Potts and A. Behn, The Johnson Center for Child Health and Development, Austin, TX
- 3:00 98 119.098 You Had Me At Hello: How Introductory Type Affects Stigmatization. K. D. Baker<sup>1</sup>, J. M. Gillis<sup>2</sup> and C. R. Locke<sup>3</sup>, (1)Psychology, Auburn University, Auburn, AL, (2)Auburn University, Auburn, AL, (3)Sociology, Auburn University, AL
- 1:00 ▶ 99 119.099 Examining the Difference in Age of Diagnosis for Bilingual and English-only Children from K-2 Autistic Support Classroom. R. A. Wideman<sup>1</sup>, M. Xie<sup>2</sup>, E. M. Reisinger<sup>3</sup>, M. M. Downey<sup>2</sup> and D. S. Mandell<sup>2</sup>, (1)University of Pennsylvania, Philadelphia, PA, (2)University of Pennsylvania School of Medicine, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA
- 2:00 100 119.100 Service Efficacy As a Moderator of Caregiver Burden in Families of Individuals with Autism Spectrum Disorders. S. L. Fung<sup>1</sup>, A. Tint<sup>1</sup>, J. A. Weiss<sup>1</sup> and Y. Lunsky<sup>2</sup>, (1)York University, Toronto, ON, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada
- 3:00 101 119.101 Caregiver Characteristics of Participants in a PEERS Program Replication Study. R. Harwood<sup>1</sup>, C. White<sup>1</sup>, A. Pulido<sup>2</sup> and A. J. Lincoln<sup>3</sup>, (1)Center for Autism Research Evaluation and Service, San Diego, CA, (2)Alliant International University, San Diego, CA, (3)Alliant International University; Center for Autism Research, Evaluation and Service, San Diego, CA
- 1:00 ▶ 102 119.102 Family Cohesion and Parental Well-Being in Families of Children with An Autism Spectrum Disorder: The Role of Ethnicity. N. Ekas<sup>1</sup>, S. Celimli<sup>2</sup>, A. Gutierrez<sup>3</sup> and M. Alessandri<sup>3</sup>, (1)Texas Christian University, Fort Worth, TX, (2)University of Miami, Coral Gables, FL, (3)Psychology, University of Miami, Coral Gables, FL
- 2:00 103 119.103 Predictors of Positive and Negative Cognitive Appraisals in Families Raising a Child with Autism. S. Quirke<sup>1,2</sup>, I. Sladeczek<sup>1</sup> and E. Fombonne<sup>2,3</sup>, (1)McGill University, Montreal, QC, Canada, (2)Montreal Children's Hospital, Montreal, QC, Canada, (3)Psychiatry, McGill University, Montreal, QC, Canada
- 3:00 104 119.104 Effect of Emotional Disclosure Through Online Journal Writing on Maternal Stress and Quality of Mother-Child Relationship Among Mothers of Children with ASD or Related Disorders. R. V. Whitney<sup>1</sup>, Baltimore, MD
- 1:00 105 119.105 Effectiveness of the Collaborative Coaching Model When Working with Families of Children with Sensory Processing Dysfunctions. C. Schranz<sup>1</sup> and D. Sood<sup>2</sup>, (1)Governors State University, University Park, IL, (2)Occupational Therapy, Governors State University, University Park, IL
- 2:00 106 119.106 Predictors of Distress in Mothers of Children with Autism Spectrum Disorders. J. A. MacMullin<sup>1</sup>, J. A. Weiss<sup>1</sup> and Y. Lunsky<sup>2</sup>, (1)Department of Psychology, York University, Toronto, ON, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada
- 3:00 107 119.107 Carer Burden Amongst Family Members of Young People with An ASD or ADHD. T. Cadman<sup>1</sup>, H. Eklund<sup>1</sup>, D. Howley<sup>1</sup>, H. L. Hayward<sup>1</sup>, J. Findon<sup>1</sup>, H. Clarke<sup>1</sup>, J. Beecham<sup>2</sup>, K. Xenitidis<sup>3</sup>, D. G. Murphy<sup>1</sup>, P. Asherson<sup>4</sup> and K. Glaser<sup>5</sup>, (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom, (2)Personal Social Services Research Unit at the LSE, London School of Economics and Political Science, London, United Kingdom, (3)Adult Attention Deficit Hyperactivity Disorder (ADHD) Service, South London and Maudsley NHS trust, London, United Kingdom, (4)MRC Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, Kings College, London, United Kingdom, (5)Department of Gerontology, Kings College, London, United Kingdom
- 1:00 108 119.108 Dyadic Effects of Mothers' and Fathers' Well-Being in Family Impairment. F. Martinez-Pedraza<sup>1</sup>, T. W. Soto, M. Maye and A. S. Carter, University of Massachusetts, Boston, MA
- 2:00 109 119.109 Parental Perspectives of Media Use Among Adolescents with An Autism Spectrum Disorder: A Preliminary Study. M. H. Kuo<sup>1</sup>, J. Magill-Evans and L. Zwaigenbaum, University of Alberta, Edmonton, AB, Canada
- 3:00 110 119.110 Quality of Life for Teens with ASD: Application of a Modified ICF Model. J. Magill-Evans<sup>1</sup>, C. Koning<sup>2</sup> and B. G. Clark<sup>3</sup>, (1)Occupational Therapy, University of Alberta, Edmonton, AB, Canada, (2)Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (3)University of Alberta, Edmonton, AB, Canada
- 1:00 111 119.111 The Road to Adulthood: The Concerns and Expectations of Parents of Adolescents with ASD. A. W. Duncan<sup>1</sup> and S. L. Bishop, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 2:00 112 119.112 An Evaluation of Support Needs, Gaps and Perceived Solutions for Children, Adolescents and Young Adults with ASD: Lived Experience and the Need for Service System Advancement. W. Roberts<sup>1</sup>, D. B. Nicholas<sup>2</sup>, I. E. Drmic<sup>3</sup>, S. Mitchell<sup>4</sup> and E. Ko<sup>4</sup>, (1)University of Toronto, Toronto, ON, Canada, (2)University of Calgary, Edmonton, AB, Canada, (3)Autism Research Unit, Hospital for Sick Children, Toronto, ON, Canada, (4)Hospital for Sick Children, Toronto, ON, Canada
- 3:00 ▶ 113 119.113 Autism in the World Autism in the World: A Comparative Study in Atlanta, GA USA and Kerala, India. J. C. Sarrett<sup>1</sup>, Institute of Liberal Arts, Emory University, Atlanta, GA

- 1:00 114 119.114 Greek Mental Health and Education Professionals' Knowledge and Views Regarding Autism. D. Papoudi<sup>1</sup>, Athens, Greece
- 2:00 ▶ 115 119.115 Autism Awareness and Attitudes Towards Treatment in Care Givers of Children Aged 3-6 Years Old in Harbin, China. J. Wang<sup>1</sup>, X. Zhou<sup>1</sup>, W. Xia<sup>1</sup>, C. H. Sun<sup>1</sup>, L. J. Wu<sup>1</sup> and J. L. Wang<sup>2</sup>, (1)Harbin Medical University, Harbin, China, (2)University of Calgary, Calgary, QC, Canada
- 3:00 ▶ 116 119.116 Intervention Focussing on the Interaction Styles of Parents and Therapists of Children with Autism and Limited Speech: Case Studies From Bangladesh. N. Y. Ahmed<sup>1</sup> and A. L. Richdale<sup>2</sup>, (1)Hope Autism Center, Dhaka, Bangladesh, (2)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia
- 1:00 117 119.117 Relations Between the Individual and Joint Attachment Scripts in Couples with a Child with Autism. M. R. Semensato<sup>1</sup> and C. A. Bosa<sup>2</sup>, (1)Psychology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil, (2)Psychology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil
- 2:00 ▶ 122 120.122 User Centric Evidence Based Inclusive School Design Guidelines for Children with Autism. R. Khare<sup>1</sup> and A. Mullick<sup>2</sup>, (1)Department of Architecture, School of Planning and Architecture, Bhopal, MP, India, (2)Industrial Design Programme, Georgia Institute of Technology, Atlanta, GA
- 3:00 123 120.123 An Examination of IEP Quality, Parent and Teacher Stress, and Teacher Background for Children with Autism Spectrum Disorders in Rural and Urban Areas. M. A. Murphy<sup>1</sup> and L. A. Ruble<sup>2</sup>, (1)Department of Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (2)Educational, Counseling, and School Psychology, University of Kentucky, Lexington, KY
- 1:00 124 120.124 Training Teachers in Social Skills: Does Self Efficacy Play a Role?. J. Salt<sup>1</sup>, C. Flint and K. Johnsen, HAVE Dreams, Park Ridge, IL
- 2:00 125 120.125 A Meta-Analysis of the Reading Comprehension Skills of Students with Autism Spectrum Disorders. H. M. Brown<sup>1</sup>, J. Oram Cardy<sup>2</sup> and A. Johnson<sup>3</sup>, (1)Faculty of Health and Rehabilitation Sciences, The University of Western Ontario, London, ON, Canada, (2)School of Communication Sciences and Disorders, The University of Western Ontario, London, ON, Canada, (3)School of Health Studies, The University of Western Ontario, London, ON, Canada
- 3:00 ▶ 126 120.126 A Culturally-Informed Ecological Approach to Study the Transition to Kindergarten for Ethnically Diverse Parents of Children with ASD. E. Starr<sup>1</sup>, T. Martini<sup>2</sup> and B. Kuo<sup>3</sup>, (1)Faculty of Education, University of Windsor, Windsor, ON, Canada, (2)Psychology, Brock University, St. Catharines, ON, Canada, (3)Psychology, University of Windsor, Windsor, ON, Canada
- 1:00 127 120.127 Psychometric Properties of a Newly Developed Teacher Self-Efficacy Scale for Teachers of Students with ASD. J. L. Birdwhistell<sup>1</sup>, L. A. Ruble, M. D. Toland and E. L. Usher, University of Kentucky, Lexington, KY
- 2:00 128 120.128 Teacher Responsivity to Child Communication Acts in Autism Preschool Classrooms. E. R. Monn<sup>1</sup>, L. D. Johnson<sup>1</sup> and A. Dimian<sup>2</sup>, (1)Educational Psychology, University of Minnesota, Minneapolis, MN, (2)University of Minnesota, Minneapolis, MN
- 3:00 129 120.129 Private and School-Based Therapies: Characteristics of Children Receiving Services Across Settings. S. Mire<sup>1</sup>, K. P. Nowell<sup>1</sup>, G. T. Schanding<sup>2</sup> and R. P. Goin-Kochel<sup>3</sup>, (1)University of Houston, School Psychology, Houston, TX, (2)School Psychology, University of Houston, Houston, TX, (3)Baylor College of Medicine, Houston, TX
- 1:00 130 120.130 Engagement States of Professionals in Autism Support Classrooms: Comparing Teacher, Classroom Assistant and Paraprofessional. M. M. Downey<sup>1</sup>, M. Xie<sup>1,2</sup>, E. M. Reisinger<sup>2</sup>, R. A. Wideman<sup>3</sup>, J. J. Locke<sup>4</sup>, A. C. Stahmer<sup>5</sup>, E. L. Lee<sup>6</sup> and D. S. Mandell<sup>7</sup>, (1)University of Pennsylvania School of Medicine, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)Center for Mental Health Policy and Services Research, University of Pennsylvania, Philadelphia, PA, (5)University of California, San Diego, La Jolla, CA, (6)Rady Children's Hospital, San Diego, CA, (7)Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA
- 1:00 118 120.118 Communicating about Autism: Translating and Sharing Research Evidence with Community Audiences. J. Jivraj<sup>1</sup>, C. Piatt<sup>1</sup>, M. Viau<sup>2</sup>, L. Zwaigenbaum<sup>1</sup>, M. Elsabbagh<sup>3</sup>, D. B. Nicholas<sup>4</sup> and E. Fombonne<sup>5</sup>, (1)University of Alberta, Edmonton, AB, Canada, (2)Autism Research Training Program, Montreal, QC, Canada, (3)Centre for Brain and Cognitive Development, Birkbeck, London, United Kingdom, (4)University of Calgary, Edmonton, AB, Canada, (5)Psychiatry, McGill University, Montreal, QC, Canada
- 2:00 119 120.119 Impact of a Multidisciplinary Parent Education Program on Families of Children Recently Diagnosed with An ASD. K. V. Christodulu<sup>1</sup>, M. L. Rinaldi, K. Knapp-Ines, L. Hiruma and V. Costanzo, Center for Autism and Related Disabilities, University at Albany, SUNY, Albany, NY
- 3:00 120 120.120 Developmental and Autism Spectrum Disorder Screening Practices Among Primary Care Physicians. K. Hughes<sup>1,2</sup>, J. E. Farmer<sup>2</sup> and K. Sohl<sup>2</sup>, (1)Health Management and Informatics, University of Missouri, Columbia, MO, (2)Thompson Center for Autism & Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 1:00 121 120.121 Training Public School Teachers to Use Data-Based Decision Analysis with Discrete Trial Training. D. T. Zavatkay<sup>1</sup>, D. Bamford<sup>2</sup>, C. Cunningham<sup>2</sup> and L. Gianino<sup>3</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA, (2)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (3)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA

Poster Sessions

120 - Schools, Employment and Community

1:00 PM - 5:30 PM - Sheraton Hall



- 2:00 131 120.131 Effective Interventions for Challenging Behaviours of Children and Youth with Autism and Developmental Disorders In School Settings: A Knowledge Translation Project. Q. Senkow<sup>1</sup>, J. Montgomery<sup>2</sup>, J. Douglas<sup>3</sup>, D. J. Heinrichs<sup>4</sup>, S. North<sup>4</sup>, S. Shooshtari<sup>5</sup>, J. Virues-Ortega<sup>6</sup>, T. L. Martin<sup>6,7</sup>, L. Dodson<sup>6,7</sup>, B. Temple<sup>8</sup> and C. T. Yu<sup>4,7</sup>, (1)Seine River School Division, Lorette, MB, Canada, (2)University of Manitoba, University of Manitoba, Winnipeg, MB, Canada, (3)St. Amant School, Winnipeg, MB, Canada, (4)University of Manitoba, Winnipeg, MB, Canada, (5)Department of Human Ecology, University of Manitoba, Winnipeg, MB, Canada, (6)Psychology, University of Manitoba, Winnipeg, MB, Canada, (7)St. Amant Research Centre, Winnipeg, MB, Canada, (8)Faculty of Nursing, University of Manitoba, Winnipeg, MB, Canada
- 3:00 132 120.132 Qualified Jobs for People with ASC in Germany. Progress in Vocational Training and Inclusion of Adolescents in the Labour Market. M. Dalferth<sup>1</sup>, University of Applied Sciences Regensburg, Regensburg, Germany
- 1:00 133 120.133 An Assessment of the Needs of Tertiary Education Students with Autism Spectrum Disorder (ASD). R. Y. Cai<sup>1</sup>, A. L. Richdale<sup>2</sup> and C. Dissanayake<sup>3</sup>, (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (3)La Trobe University, Olga Tennison Autism Research Centre, Bundoora, Australia
- 2:00 134 120.134 Examining Vocational Services for Adults with Autism. D. B. Nicholas<sup>1</sup>, H. Emery<sup>2</sup> and L. Zwaigenbaum<sup>3</sup>, (1)University of Calgary, Edmonton, AB, Canada, (2)University of Calgary, Calgary, AB, Canada, (3)University of Alberta, Edmonton, AB, Canada
- 3:00 135 120.135 The Sensory Audit: Making Workplaces Safer for Individuals on the Autism Spectrum. A. E. Robertson<sup>1</sup> and D. R. Simmons, School of Psychology, University of Glasgow, Glasgow, United Kingdom
- 1:00 136 120.136 Social Interest of Typically Developing Peers in a Child with ASD. M. Zakai-Mashiach<sup>1</sup>, M. Ziv and E. Dromi, School of Education, Tel Aviv University, Tel Aviv, Israel
- 2:00 137 120.137 Social Skills Programming for Individuals on the Autism Spectrum: Training Social Workers. K. Johnsen<sup>1</sup>, C. Flint, D. Fenceroy and J. Salt, HAVE Dreams, Park Ridge, IL
- 3:00 138 120.138 Participation of Children with and without Autism Spectrum Disorders in Social, Leisure, and Recreational Activities. V. Lopes<sup>1</sup> and P. Minnes, Psychology, Queen's University, Kingston, ON, Canada
- 1:00 139 120.139 Stepping Out: Social Recreation for Young Adults On the Autism Spectrum. H. Wickenheiser<sup>1</sup>, Sinneave Foundation, Calgary, AB, Canada; Kinesiology, University Of Calgary, Calgary, AB, Canada

Poster Sessions

121 - Screening, Incidence, Prevalence and Study Methods

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 140 121.140 Topics of Worry in Mothers of Children with An Autism Spectrum Disorder or Down Syndrome. P. L. Ogston<sup>1</sup>, V. H. Mackintosh<sup>2</sup> and B. J. Myers<sup>1</sup>, (1)Psychology, Virginia Commonwealth University, Richmond, VA, (2)Psychology, University of Mary Washington, Fredericksburg, VA
- 2:00 ▶ 141 121.141 Prevalence of Autism Spectrum Disorders in Qatar. F. Alshaban<sup>1</sup>, Doha, Qatar
- 3:00 ▶ 142 121.142 Developing Autism Early Identification, Treatment and Research Strategies in Argentina. A. Rattazzi<sup>1</sup>, K. Gutson<sup>1</sup>, C. Plebst<sup>1</sup>, M. L. Massolo<sup>2</sup>, V. M. Ensenat<sup>1</sup>, S. Cukier<sup>1</sup> and L. A. Croen<sup>3</sup>, (1)PANAACEA, CABA, Argentina, (2)Kaiser Permanente Division of Research, Oakland, CA, (3)Kaiser Permanente Division of Research, Oakland, CA
- 1:00 ▶ 143 121.143 An Epidemiological Review Study on the Prevalence and Incidence Rate of Autism Spectrum Disorder in Ethnic Chinese Population. L. Feng<sup>1</sup> and J. Wong<sup>2</sup>, (1)Psychological Medicine, National University of Singapore, Singapore, (2)Psychological Medicine, National University of Singapore, Singapore
- 2:00 ▶ 144 121.144 The Validity of Modified Checklist for Autism in Toddlers (M-CHAT) in Turkish. B. Kara<sup>1</sup>, N. M. Mukaddes<sup>2</sup>, I. Altintas<sup>3</sup>, D. Guntepe<sup>4</sup>, G. Gokcay<sup>3</sup> and M. Ozmen<sup>3</sup>, (1)Pediatrics, Kocaeli Medical School, Kocaeli, Turkey, (2)Istanbul University, Istanbul Faculty of Medicine, Istanbul, Turkey, (3)Istanbul University, Istanbul, Turkey, (4)Istanbul University, Istanbul, Turkey
- 3:00 145 121.145 External Validation of Autism Spectrum Disorder Classification in the Utah Autism and Developmental Disabilities Monitoring (ADDM) Network Site. D. Bilder<sup>1</sup>, J. Pinborough-Zimmerman<sup>2</sup>, A. V. Bakian<sup>3</sup>, P. Carbone<sup>4</sup>, P. B. Petersen<sup>5</sup> and C. E. Rice<sup>6</sup>, (1)University of Utah School of Medicine, Salt Lake City, UT, (2)Psychiatry, University of Utah School of Medicine, Salt Lake City, UT, (3)Department of Psychiatry, University of Utah, Salt Lake City, UT, (4)Pediatrics, University of Utah School of Medicine, Salt Lake City, UT, (5)Carmen B. Pingree School for Children with Autism, Salt Lake City, UT, (6)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA
- 1:00 146 121.146 Autism Incidence and Prevalence in California, 2000-2010. A. S. Winter<sup>1</sup> and P. S. Bearman, Columbia University, New York, NY
- 2:00 147 121.147 Spatio-Temporal Patterns of Relative Risk for Autism Spectrum Disorders in Utah. A. V. Bakian<sup>1</sup>, J. Pinborough-Zimmerman and W. M. McMahon, Department of Psychiatry, University of Utah, Salt Lake City, UT



3:00 148 121.148 Prevalence and Case Validity of Autism Spectrum Disorders in the Stockholm Youth Cohort. S. Idring<sup>1</sup>, D. Rai<sup>1,2</sup>, H. Dal<sup>1</sup>, C. Dalman<sup>1</sup>, H. Sturm<sup>3</sup>, E. Zander<sup>3</sup>, B. K. Lee<sup>4</sup>, E. Serlachius<sup>5</sup> and C. Magnusson<sup>1</sup>, (1)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (2)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (3)Department of Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (4)Drexel University School of Public Health, Philadelphia, PA, (5)Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden

1:00 149 121.149 The Study to Explore Early Development: Study Design and Implementation of a Multi-Site Epidemiologic Study in Autism. D. E. Schendel<sup>1</sup>, C. DiGuseppi<sup>2</sup>, L. A. Croen<sup>3</sup>, M. D. Fallin<sup>4</sup>, P. Reed<sup>5</sup>, L. A. Schieve<sup>6</sup>, L. D. Wiggins<sup>7</sup>, J. L. Daniels<sup>8</sup>, J. K. Grether<sup>9</sup>, S. E. Levy<sup>10</sup>, L. Miller<sup>11</sup>, C. J. Newschaffer<sup>12</sup>, J. A. Pinto-Martin<sup>13</sup>, C. Robinson<sup>14</sup>, G. Windham<sup>9</sup>, A. A. Alexander<sup>15</sup>, A. S. Aylsworth<sup>16</sup>, P. Bernal<sup>17</sup>, J. Bonner<sup>18</sup>, L. Blaskey<sup>10</sup>, C. Bradley<sup>19</sup>, J. Collins<sup>20</sup>, C. J. Ferretti<sup>21</sup>, H. Farzadegan<sup>22</sup>, E. Giarelli<sup>23</sup>, M. Harvey<sup>15</sup>, S. Hepburn<sup>24</sup>, M. Herr<sup>25</sup>, K. Kaporich<sup>26</sup>, R. J. Landa<sup>27</sup>, L. C. Lee<sup>28</sup>, B. Levenseller<sup>29</sup>, S. Meyerer<sup>30</sup>, M. H. Rahbar<sup>31</sup>, A. Ratchford<sup>32</sup>, A. M. Reynolds<sup>26</sup>, S. Rosenberg<sup>2</sup>, J. Rusyniak<sup>33</sup>, S. Shapira<sup>34</sup>, K. S. Smith<sup>35</sup>, M. C. Souders<sup>36</sup>, P. A. Thompson<sup>37</sup>, L. Young<sup>38</sup> and M. Yeargin-Allsopp<sup>7</sup>, (1)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (2)University of Colorado Denver, Aurora, CO, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)Johns Hopkins School of Public Health, Baltimore, MD, (5)Biomedical Research Informatics Core, Michigan State University, E. Lansing, MI, (6)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (7)Centers for Disease Control and Prevention, Atlanta, GA, (8)University of North Carolina, Chapel Hill, NC, (9)California Department of Public Health, Richmond, CA, (10)Children's Hospital of Philadelphia, Philadelphia, PA, (11)Colorado Dept of Public Health and Environment, Denver, CO, (12)Drexel University School of Public Health, Philadelphia, PA, (13)University of Pennsylvania School of Nursing and School of Medicine, Philadelphia, PA, (14)University of Colorado Denver School of Medicine, Aurora, CO, (15)National Center on Birth Defects, Atlanta, GA, (16)University of North Carolina, Chapel Hill, NC, (17)Kaiser Permanente, San Jose, CA, (18)Michigan State University, E. Lansing, MI, (19)University of North Carolina, Chapel Hill, NC, (20)Kaiser Permanente, Division of Research, Oakland, CA, (21)Center for Autism, Childrens Hospital of Philadelphia, Philadelphia, PA, (22)Department of Epidemiology, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, (23)School of Nursing, University of Pennsylvania, Philadelphia, PA, (24)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, (25)University of North Carolina, Chapel Hill, NC, (26)University of Colorado Denver, Aurora, CO, (27)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (28)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (29)University of Pennsylvania School of Nursing, Philadelphia, PA, (30)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (31)Biostatistics, Epidemiology,

Research Design (BERD) Core, Center for Clinical and Translational Sciences (CCTS), The University of Texas Health Science Center, Houston, TX, (32)Colorado Department of Public Health and Environment, Denver, CO, (33)Kennedy Krieger Institute and Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, MD, (34)National Center on Birth Defects and Developmental Disabilities (NCBDDD), Atlanta, GA, (35)California Department of Public Health, Richmond, CA, (36)University of Pennsylvania/The Children's Hospital of Philadelphia, Swarthmore, PA, (37)Michigan State University, East Lansing, MI, (38)University of Pennsylvania, School of Nursing, Philadelphia, PA

2:00 ▶ 150 121.150 Demographic Profile of Families and Children Enrolled in the Study to Explore Early Development (SEED): A Case-Control Study of Autism Spectrum Disorder. C. DiGuseppi<sup>1</sup>, J. L. Daniels<sup>2</sup>, M. D. Fallin<sup>3</sup>, S. Rosenberg<sup>1</sup>, L. A. Schieve<sup>4</sup>, K. C. Thomas<sup>5</sup>, G. Windham<sup>6</sup>, P. Bernal<sup>7</sup>, L. A. Croen<sup>8</sup>, L. C. Lee<sup>9</sup>, L. Miller<sup>10</sup>, J. A. Pinto-Martin<sup>11</sup> and D. E. Schendel<sup>12</sup>, (1)University of Colorado Denver, Aurora, CO, (2)University of North Carolina, Chapel Hill, NC, (3)Johns Hopkins School of Public Health, Baltimore, MD, (4)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (5)University of North Carolina, Chapel Hill, NC, (6)California Department of Public Health, Richmond, CA, (7)Kaiser Permanente, San Jose, CA, (8)Kaiser Permanente, Division of Research, Oakland, CA, (9)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (10)Colorado Dept of Public Health and Environment, Denver, CO, (11)University of Pennsylvania School of Nursing and School of Medicine, Philadelphia, PA, (12)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA

3:00 ▶ 151 121.151 A School-based Prevalence Estimate of Autistic Symptoms in 3-8 Year Olds: Preliminary Results From Two Indian Cities. B. Chakrabarti<sup>1,2</sup>, A. Rudra<sup>2</sup>, S. Banerjee<sup>3</sup>, N. Singhal<sup>4</sup>, M. Barua<sup>4</sup> and S. Mukerji<sup>3</sup>, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (3)Creating Connections, Kolkata, India, (4)Action for Autism, National Centre for Autism, Delhi, India

1:00 152 121.152 The EARLI Study As a Resource for Autism Etiologic Research. C. J. Newschaffer<sup>1</sup>, L. A. Croen<sup>2</sup>, M. D. Fallin<sup>3</sup>, I. Hertz-Picciotto<sup>4</sup>, H. Farzadegan<sup>5</sup> and D. Nguyen<sup>6</sup>, (1)Drexel University School of Public Health, Philadelphia, PA, (2)Kaiser Permanente Division of Research, Oakland, CA, (3)Johns Hopkins School of Public Health, Baltimore, MD, (4)Public Health Sciences, M.I.N.D. Institute, UC Davis, Davis, CA, (5)Department of Epidemiology, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, (6)UC Davis, Davis, CA

- 2:00 ▶ 153 121.153 A Pilot Project of Early Detection and Diagnosis of Autism Spectrum Disorders in a Public Children Hospital in Buenos Aires, Argentina. K. A. Gutson<sup>1,2</sup>, M. I. Colantonio Llabrás<sup>3</sup>, A. Rattazzi<sup>4,5</sup>, N. Regatky<sup>6</sup>, M. G. Salamanco<sup>6</sup> and I. M. Alfieri<sup>7</sup>, (1)Pediatria. Hospital General de Niños, Dr. Ricardo Gutiérrez, Universidad de Buenos Aires, Buenos Aires, Argentina, (2)PANAACEA, Buenos Aires, Argentina, (3)Mental Health, Hospital de Niños, Buenos Aires, Argentina, (4)INECO, Caba, Buenos Aires, Argentina, (5)PANAACEA, CABA, Argentina, (6)Promoción y Protección de la Salud, Hospital de Niños, Dr. Ricardo Gutiérrez, Buenos Aires, Argentina, (7)Mental Health, Hospital de Niños, Dr. Ricardo Gutiérrez, Buenos Aires, Argentina
- 3:00 154 121.154 The Early Start Saga Model: Community-Based Health Check-Ups for Screening Infants and Toddlers with Autism Spectrum Disorder in Japan. T. Haramaki<sup>1</sup> and T. Kuroki<sup>2</sup>, (1)Graduate School of Culture and Education, Saga University, Saga City, Japan, (2)Clinical Research Division, National Hospital Organization Hizen Psychiatric Center, Saga, Japan
- 1:00 155 121.155 Overview of Population-Based ASD Screening Studies in Europe: 20 Years After CHAT. P. Garcia Primo<sup>1</sup>, A. Hellendoorn<sup>2</sup>, S. Schjolberg<sup>3</sup> and E. Van Daalen<sup>4</sup>, (1)University of Salamanca, Salamanca, Spain, (2)Department of Educational Sciences, Utrecht University, Utrecht, Netherlands, (3)The Norwegian Institute of Public Health, Oslo, Norway, (4)Department of Child and Adolescent Psychiatry, University Medical Centre Utrecht, Utrecht, Netherlands
- 2:00 ▶ 156 121.156 Prevalence of Autism Spectrum Disorders in Children: A Review of International Population-based Studies. L. C. Lee<sup>1</sup>, R. A. Harrington<sup>1</sup> and C. E. Rice<sup>2</sup>, (1)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA
- 3:00 157 121.157 Developing UK ASD Research Capacity: Regional and UK ASD Research Databases Include Children with Similar Characteristics. F. Warnell<sup>1</sup>, M. Johnson<sup>2</sup>, H. McConachie<sup>2</sup> and J. Parr<sup>1</sup>, (1)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom
- 1:00 158 121.158 A Diverse Autism Registry for Etiologic and Effectiveness Studies: Prevalence and Demographic Characteristics. L. A. Croen<sup>1</sup>, M. A. Lutsky<sup>1</sup>, V. M. Yau<sup>1</sup>, Y. Qian<sup>1</sup>, F. Lynch<sup>2</sup>, K. Pearson<sup>2</sup>, A. Owen-Smith<sup>3</sup>, R. Davis<sup>3</sup>, J. Cummings<sup>4</sup>, K. Coleman<sup>5</sup>, V. Quinn<sup>5</sup>, K. Schenk<sup>5</sup>, J. Madden<sup>6</sup> and M. Lakoma<sup>6</sup>, (1)Kaiser Permanente Division of Research, Oakland, CA, (2)Kaiser Permanente Center for Health Research, Portland, OR, (3)Kaiser Permanente Center for Health Research Southeast, Atlanta, GA, (4)Emory University, Atlanta, GA, (5)Kaiser Permanente Research and Evaluation, Pasadena, CA, (6)Harvard Pilgrim Healthcare Institute, Boston, MA
- 2:00 159 121.159 Potential Effect of DSM-5 Diagnostic Criteria on ASD Prevalence Estimates. M. J. Maenner<sup>1</sup>, C. E. Rice<sup>2</sup>, C. L. Arneson<sup>1</sup>, A. V. Bakian<sup>3</sup>, L. A. Carpenter<sup>4</sup>, C. M. Cunniff<sup>2</sup>, R. T. Fitzgerald<sup>5</sup>, R. S. Kirby<sup>7</sup>, L. Miller<sup>8</sup>, C. Robinson<sup>9</sup>, L. A. Schieve<sup>2</sup>, K. Van Naarden Braun<sup>10</sup> and M. S. Durkin<sup>11</sup>, (1)University of Wisconsin-Madison, Madison, WI, (2)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (3)University of Utah, Salt Lake City, UT, (4)Medical University of South Carolina, Charleston, SC, (5)University of Arizona College of Medicine, Tucson, AZ, (6)Washington University School of Medicine, St. Louis, MO, (7)University of South Florida, Tampa, FL, (8)Colorado Dept of Public Health and Environment, Denver, CO, (9)University of Colorado Denver School of Medicine, Aurora, CO, (10)Centers for Disease Control and Prevention, Atlanta, GA, (11)University of Wisconsin-Madison, Madison, WI
- 3:00 160 121.160 Sensitivity of Autism Spectrum Disorder Prevalence Estimates to Private and Home School Enrollment and Denominator Choice in North Carolina. A. E. Kalkbrenner<sup>1</sup>, S. Watkins<sup>2</sup>, K. Hoffman<sup>2</sup>, P. Bell<sup>2</sup> and J. L. Daniels<sup>2</sup>, (1)Zilber School of Public Health, University of Wisconsin at Milwaukee, Milwaukee, WI, (2)Department of Epidemiology, University of North Carolina, Chapel Hill, NC
- 1:00 161 121.161 Does a Claims Diagnosis of Autism Mean a True Case?. J. Burke<sup>1</sup>, M. Kaiser<sup>2</sup>, A. Jain<sup>3</sup>, J. Marshall<sup>3</sup> and C. J. Newschaffer<sup>4</sup>, (1)Optum Insight, Eden Prairie, MN, (2)Psychology, University of Miami, Miami, FL, (3)The Lewin Group, Falls Church, VA, (4)Drexel University School of Public Health, Philadelphia, PA

Poster Sessions

122 - Social Risk Factors and Influences on Phenotype

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 162 122.162 Driving and Young Adults with ASD: Parents' Experiences. N. B. Cox<sup>1</sup>, R. E. Reeve<sup>2</sup>, S. M. Cox<sup>3</sup> and D. J. Cox<sup>4</sup>, (1)Clinical and School Psychology, Curry School of Education at the University of Virginia, Charlottesville, VA, (2)Curry School of Education, Clinical and School Psychology, University of Virginia, Charlottesville, VA, (3)Curry School of Education, University of Virginia, Charlottesville, VA, (4)Departments of Psychiatric Medicine and Internal Medicine, University of Virginia, Charlottesville, VA
- 2:00 ▶ 163 122.163 Family Burden Among Latino Families with Children on the Autism Spectrum. K. Lopez<sup>1</sup> and S. Magana<sup>2</sup>, (1)Social Work & Developmental Psychology, University of Michigan, Ann Arbor, MI, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI
- 3:00 164 122.164 The Effect of State Mental Health Parity Laws on Financial Burden and Unmet Needs for Children with Autism Spectrum Disorder. L. A. Bilaver<sup>1</sup> and N. Jordan<sup>2</sup>, (1)Institute for Healthcare Studies, Northwestern University, Chicago, IL, (2)Psychiatry and Behavioral Science, Northwestern University, Chicago, IL

- 1:00 165 122.165 Idiopathic Toe Walking in Autism Spectrum Disorders and Associated Clinical Features. L. B. Krantz<sup>1,2</sup>, T. N. Takahashi<sup>3</sup>, K. Hughes<sup>3</sup>, M. O. Mazurek<sup>4</sup> and K. Sohl<sup>5</sup>, (1)University of Missouri School of Medicine, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, (3)University of Missouri – Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, (4)University of Missouri, Columbia, MO
- 2:00 166 122.166 Risk Factors in Autism Spectrum Disorders Are More Prevalent in Affected Females. D. A. Zachor<sup>1</sup>, S. Ben-Zur<sup>2</sup> and E. Ben Itzhak<sup>3</sup>, (1)Tel Aviv University, Sheba Harofeh Medical Center, Zerifin, Israel, (2)The Genetic Institute, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel, (3)Communication Disorders, Ariel University Center of Samaria, Ariel, Israel
- 3:00 167 122.167 The Prevalence of Bullying in Children with Autism Spectrum Disorders. B. Zablotzky<sup>1</sup>, C. P. Bradshaw<sup>1</sup>, C. M. Anderson<sup>2</sup> and P. A. Law<sup>2</sup>, (1)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD
- 1:00 168 122.168 Maternal Exposure to Intimate Partner Abuse Prior to Birth Is Associated with Risk of Autism In Offspring. A. L. Roberts<sup>1</sup>, K. Lyall<sup>2,3</sup>, J. W. Rich-Edwards<sup>4</sup>, A. Ascherio<sup>5</sup> and M. G. Weisskopf<sup>6</sup>, (1)Department of Society, Human Development, and Health, Harvard School of Public Health, Boston, MA, (2)Harvard School of Public Health, Boston, MA, (3)University of California, Davis, MIND Institute, Sacramento, CA, (4)Connors Center for Women's Health and Gender Biology, Brigham and Women's Hospital, Boston, MA, (5)Department of Epidemiology, Harvard School of Public Health, Boston, MA, (6)Department of Environmental Health, Harvard School of Public Health, Boston, MA
- 2:00 169 122.169 Regression Rates Differ According to the Operational Definition Employed and ASD Subgroup Status. B. Barger<sup>1</sup>, J. Campbell<sup>2</sup>, A. Dubin<sup>2</sup> and J. Donald<sup>2</sup>, (1)University of Georgia, Athens, GA, (2)University of Georgia, Athens, GA
- 3:00 ▶ 170 122.170 Migration and Autism Spectrum Disorders. C. Magnusson<sup>1</sup>, D. Rai<sup>1,2</sup>, A. Goodman<sup>3</sup>, M. Lundberg<sup>1</sup>, S. Idring<sup>1</sup>, A. Svensson<sup>1</sup>, I. Koupil<sup>4</sup>, E. Serlachius<sup>5</sup> and C. Dalman<sup>1</sup>, (1)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (2)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (3)London School of Hygiene & Tropical Medicine, London, United Kingdom, (4)Stockholm University, Stockholm, Sweden, (5)Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden
- 1:00 ▶ 171 122.171 Translation and Validation of Autism Screening and Diagnostic Tools in to Hindi and Bengali. A. Rudra<sup>1</sup>, S. Banerjee<sup>2</sup>, N. Singhal<sup>3</sup>, M. Barua<sup>3</sup>, S. Mukerji<sup>2</sup> and B. Chakrabarti<sup>1,4</sup>, (1)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (2)Creating Connections, Kolkata, India, (3)Action for Autism, National Centre for Autism, Delhi, India, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom
- 2:00 ▶ 172 122.172 Parent-Teacher Agreement on An Autism Screener in An Underserved Preschool Population. J. Harris<sup>1</sup>, Y. Janvier<sup>2</sup>, L. Walpin<sup>3</sup> and L. Blann<sup>4</sup>, (1)Children's Specialized Hospital, Mountainside, NJ, (2)Children's Specialized Hospital, Toms River, NJ, (3)Medical, Children's Specialized Hospital, Hamilton, NJ, (4)Medical, Children's Specialized Hospital, Toms River, NJ
- 3:00 173 122.173 Underdiagnosis of Autism Spectrum Disorders in Individuals with Intellectual Disabilities. H. Roeyers<sup>1</sup> and M. Thys, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium
- 1:00 ▶ 174 122.174 Racial Disparity in Administrative Autism Identification Across the United States From 2000 to 2007. E. A. Boutot<sup>1</sup> and J. Travers<sup>2</sup>, (1)Special Education, Texas State University, Austin, TX, (2)Department of Student Development, University of Massachusetts, Amherst, MA
- 2:00 175 122.175 Knowledge of Autism in Parents of Typically-Developing Children. L. C. Newell<sup>1</sup> and L. Knight<sup>2</sup>, (1)Psychology, Indiana University of Pennsylvania, Indiana, PA, (2)Psychology, Indiana University of PA, Indiana, PA
- 3:00 176 122.176 Autistic Traits in Patients within Secure Forensic Mental Health Settings. E. L. Woodhouse<sup>1</sup>, K. L. Ashwood<sup>1</sup>, A. Hammon<sup>1</sup>, S. Young<sup>2</sup>, D. Perkins<sup>3</sup>, D. G. Murphy<sup>2</sup> and P. Asherson<sup>4</sup>, (1)Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, King's College, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom, (3)Department of Psychology, Broadmoor Hospital, Berkshire, United Kingdom, (4)MRC Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, Kings College, London, United Kingdom
- 1:00 177 122.177 Assessing Medication Adherence in Autism Spectrum Disorders. S. L. Logan<sup>1</sup>, J. S. Nicholas<sup>1</sup>, L. B. King<sup>2</sup>, J. Charles<sup>2</sup>, W. Jenner<sup>2</sup> and L. A. Carpenter<sup>2</sup>, (1)Medicine, Medical University of South Carolina, Charleston, SC, (2)Pediatrics, Medical University of South Carolina, Charleston, SC
- 2:00 ▶ 178 122.178 Autism Spectrum Disorders in India: A Comprehensive Review of the Literature. T. C. Daley<sup>1</sup>, N. Singhal<sup>2</sup> and M. Barua<sup>2</sup>, (1)Westat, Durham, NC, (2)Action for Autism, National Centre for Autism, Delhi, India
- 3:00 ▶ 179 122.179 Cultural Influences On the Expression for Autistic Phenotype In Indian and North American Populations. S. Basu<sup>1</sup>, S. Nusrat<sup>2</sup>, J. Basu<sup>2</sup> and M. K. Belmonte<sup>3</sup>, (1)S. N. Pradhan Center for Neurosciences, University of Calcutta, Kolkata, India, (2)Applied Psychology, University of Calcutta, Kolkata, India, (3)Cornell University, Ithaca, NY



- 1:00 180 122.180 Sex Differences in Extended Pedigrees with ASD. A. Thompson<sup>1</sup>, P. Szatmari<sup>1</sup>, V. Vieland<sup>2</sup>, J. Piven<sup>3</sup>, B. A. Fernandez<sup>4</sup>, K. Walters<sup>5</sup>, M. C. Parlier<sup>6</sup>, I. O'Connor<sup>1</sup> and K. Whitten<sup>7</sup>, (1)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (2)Battelle Center for Mathematical Medicine, The Research Institute at Nationwide Children's Hospital & The Ohio State University, Columbus, OH, (3)The Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (4)Disciplines of Genetics and Medicine, Memorial University of Newfoundland and Provincial Medical Genetics Program, Eastern Health, St. John's, NF, Canada, (5)Battelle Center for Mathematical Medicine, Nationwide Children's Hospital, Columbus, OH, (6)Psychiatry, University of North Carolina, Chapel Hill, NC, (7)Patient Research Centre, Eastern Health Centre, St. John's, NF, Canada
- 2:00 181 122.181 Autism Spectrum Disorders & Regression: Findings From a Population Based Study. H. Patel<sup>1</sup>, J. Shenouda and W. Zahorodny, Pediatrics, UMDNJ-New Jersey Medical School, Newark, NJ
- 3:00 182 122.182 Maternal Psychiatric History: Implications for Autism Severity. E. Allain<sup>1</sup>, C. M. Brewton, E. Gonzalez and G. T. Schanding, School Psychology, University of Houston, Houston, TX
- 1:00 183 122.183 Prevalence of Comorbid Psychiatric Conditions In Men and Women with Autism Spectrum Disorder. A. Shahidiani<sup>1,2</sup>, C. M. Murphy<sup>3,4</sup>, C. Ecker<sup>5</sup>, E. C. Wilson<sup>1</sup>, N. Gillan<sup>1</sup>, S. Coghlán<sup>3</sup>, D. Spain<sup>3</sup>, G. Roberts<sup>3</sup>, M. A. Mendez<sup>6</sup>, N. Hammond<sup>7</sup>, D. M. Robertson<sup>3</sup> and D. G. Murphy<sup>5</sup>, (1)Forensic and Developmental Neuroscience, Institute of Psychiatry, King's College, London, United Kingdom, (2)Centre for Neuroimaging Sciences, King's College, London, United Kingdom, (3)Behavioural Genetics Clinic, Maudsley Hospital, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, King's College, Institute of Psychiatry, London, United Kingdom, (5)Forensic and Neurodevelopmental Sciences, King's College, Institute of Psychiatry, London, United Kingdom, (6)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom, (7)South London and Maudsley NHS Foundation Trust, London, United Kingdom
- 2:00 ▶ 184 122.184 Relationship Between the Quality of the Home Environment and Developmental Status of Children with Autistic Disorder in Jamaica. M. Samms-Vaughan<sup>1</sup>, J. A. T. Reece, S. Pellington and S. C. Smile, Department of Child Health, The University of the West Indies, Kingston 7, Jamaica
- 3:00 185 122.185 Use of a Large Administrative Dataset to Examine Health Outcomes in Children with Autism Spectrum Disorders. D. Spencer<sup>1</sup>, J. Marshall<sup>2</sup>, T. Dennen<sup>2</sup>, G. Yang<sup>2</sup>, C. J. Newschaffer<sup>3</sup>, L. J. Lawer<sup>4</sup> and A. Jain<sup>2</sup>, (1)Health Economics and Outcomes Research, Optum Insight, Eden Prairie, MN, (2)The Lewin Group, Falls Church, VA, (3)Drexel University School of Public Health, Philadelphia, PA, (4)University of Pennsylvania, Philadelphia, PA
- 1:00 186 122.186 Covariates Associated with Dental Problems in Children with Autism Spectrum Disorders. O. Ly-Mapes<sup>1,2</sup>, J. M. Karp<sup>1</sup>, T. Smith<sup>3</sup> and S. L. Hyman<sup>3</sup>, (1)Division of Pediatric Dentistry, Eastman Institute for Oral Health, Rochester, NY, (2)University of Rochester Medical Center, Rochester, NY, (3)Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY
- 2:00 187 122.187 Telehealth-Based Systems for Diagnosis, Management and Treatment of Autism Spectrum Disorders. F. Angjellari-Dajci<sup>1</sup>, MCG, Martinez, GA
- 3:00 ▶ 188 122.188 Evidence of Increasing Socioeconomic Disparity in the Prevalence of Autism Spectrum Disorder Among U.S. Children. M. S. Durkin<sup>1</sup>, M. J. Maenner<sup>2</sup>, C. L. Arneson<sup>1</sup>, C. DiGiuseppi<sup>3</sup>, M. S. Wingate<sup>4</sup>, C. E. Rice<sup>5</sup>, S. Pettygrove<sup>6</sup>, L. C. Lee<sup>7</sup>, J. N. Constantino<sup>8</sup>, R. Fitchgerald<sup>9</sup>, J. Nichols<sup>10</sup> and L. A. Schieve<sup>5</sup>, (1)University of Wisconsin, Madison, WI, (2)Waisman Center, University of Wisconsin, Madison, WI, (3)University of Colorado Denver, Aurora, CO, (4)University of Alabama, Birmingham, AL, (5)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (6)University of Arizona, Tucson, AZ, (7)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (8)Washington University School of Medicine, Saint Louis, MO, (9)Washington University, St. Louis, MO, (10)Medical University of South Carolina, Charleston, SC

Poster Sessions

123 - Use, Access and Evaluation of Services

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 189 123.189 The Influence of Parents and Researchers on Policy-Making for Children with Autism Spectrum Disorders in Canada. C. Waddell<sup>1</sup>, C. Shepherd and S. Gatto, Simon Fraser University, Vancouver, BC, Canada
- 2:00 ▶ 190 123.190 Evaluation of a 5 Day Autism Training Model in India. C. Flint<sup>1</sup>, K. Hench<sup>1</sup>, K. Johnsen<sup>2</sup> and J. Salt<sup>2</sup>, (1)Aaction Autism, Park Ridge, IL, (2)HAVE Dreams, Park Ridge, IL
- 3:00 191 123.191 An Exploration of Families' Motivations for Participating in Genetic Research for Autism. M. Trotter<sup>1</sup>, W. Roberts<sup>2</sup>, I. E. Drmic<sup>3</sup>, S. W. Scherer<sup>4</sup>, R. Weksberg<sup>5</sup>, C. Cytrynbaum<sup>6</sup>, D. Chitayat<sup>7</sup>, C. Shuman<sup>6</sup> and F. A. Miller<sup>8</sup>, (1)Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, (2)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (3)Autism Research Unit, Hospital for Sick Children, Toronto, ON, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)The Hospital for Sick Children, Toronto, ON, Canada, (6)Hospital for Sick Children, Toronto, ON, Canada, (7)Mount Sinai Hospital, Toronto, ON, Canada, (8)University of Toronto, Toronto, ON, Canada
- 1:00 192 123.192 Autism Genomics Research Is Not Only about Autism Genomics: A Qualitative Study of Parent Participants. R. Z. Hayeems<sup>1</sup>, F. A. Miller and J. P. Bytautas, University of Toronto, Toronto, ON, Canada



- 2:00 193 123.193 Positive Partnerships: The Parent Advisor Model of Participatory Research with Parents of Children with ASD. B. E. Drouillard<sup>1</sup>, M. N. Gragg<sup>1</sup>, H. E. Jones<sup>2</sup>, R. T. Miceli<sup>3</sup>, D. D. Barrie<sup>1</sup> and L. K. Miron<sup>2</sup>, (1)Psychology, University of Windsor, Windsor, ON, Canada, (2)The Summit Centre for Preschool Children with Autism, Windsor, ON, Canada, (3)St. Clair College, Windsor, ON, Canada
- 3:00 194 123.194 Parents' Perspectives on Screening for Developmental Disabilities Including Autism At 12-Month Preventative Care Visits. E. Crais<sup>1</sup>, C. McComish<sup>2</sup>, B. P. Humphreys<sup>3</sup>, L. R. Watson<sup>4</sup>, G. T. Baranek<sup>5</sup>, J. S. Reznick<sup>6</sup>, R. Christian<sup>7</sup> and M. Earls<sup>8</sup>, (1)Speech & Hearing Sciences, University of North Carolina, Chapel Hill, NC, (2)Division of Speech & Hearing Sciences, University of North Carolina, Chapel Hill, NC, (3)University of New Hampshire, Durham, NH, (4)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (5)Occupational Science, University of North Carolina, Chapel Hill, NC, (6)Psychology, University of North Carolina, Chapel Hill, NC, (7)Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (8)Guildford Child Health, Greensboro, NC
- 1:00 195 123.195 A Pilot Project for Using the Screening Tool for Autism in Toddlers and Young Children As Part of An Intake Process. A. King<sup>1</sup> and N. R. Powers<sup>2</sup>, (1)Psychology, Greenville Hospital System Children's Hospital, Greenville, SC, (2)Developmental Behavioral Pediatrics, Greenville Hospital System Children's Hospital, Greenville, SC
- 2:00 196 123.196 Outcomes of Early Intervention for Families of a Child with ASD: Perceptions of Parents and Professionals. B. Elbaum<sup>1</sup>, D. M. Noyes-Grosser<sup>2</sup>, S. R. Rosas<sup>3</sup>, R. G. Romanczyk<sup>4</sup>, E. H. Callahan<sup>4</sup> and R. L. Carter<sup>5</sup>, (1)University of Miami, Coral Gables, FL, (2)Bureau of Early Intervention, New York State Department of Health, Albany, NY, (3)Concept Systems, Inc., Ithaca, NY, (4)Institute for Child Development, State University of New York at Binghamton, Binghamton, NY, (5)Population Health Observatory, University at Buffalo, Buffalo, NY
- 3:00 197 123.197 Investigating the Efficacy of Parent Training Service Delivery Models. A. L. Wainer<sup>1</sup> and B. Ingersoll, Psychology, Michigan State University, East Lansing, MI
- 1:00 198 123.198 Conceptualizing Early Intervention Outcomes for Young Children with ASDs and Their Families. D. M. Noyes-Grosser<sup>1</sup>, S. R. Rosas<sup>2</sup>, R. G. Romanczyk<sup>3</sup>, B. Elbaum<sup>4</sup>, E. H. Callahan<sup>3</sup> and R. L. Carter<sup>5</sup>, (1)New York State Department of Health, Albany, NY, (2)Concept Systems, Inc., Ithaca, NY, (3)Institute for Child Development, State University of N.Y. at Binghamton, Binghamton, NY, (4)University of Miami, Coral Gables, FL, (5)Population Health Observatory, University at Buffalo, Buffalo, NY
- 2:00 199 123.199 Adherence and Psychological Evaluation Recommendations for Young Children with ASD. C. R. Newsom<sup>1,2</sup>, A. Vehorn<sup>3,4</sup>, E. H. Dohrmann<sup>5</sup>, J. L. Taylor<sup>6,7</sup> and Z. Warren<sup>2,8</sup>, (1)TRIAD, Vanderbilt Kennedy Center, Nashville, TN, (2)Pediatrics, Vanderbilt University, Nashville, TN, (3)TRIAD, Vanderbilt Kennedy Center, Nashville, TN, (4)Vanderbilt University, Nashville, TN, (5)TRIAD, Vanderbilt University, Nashville, TN, (6)Vanderbilt Kennedy Center, Nashville, TN, (7)Special Education, Vanderbilt University, Nashville, TN, (8)TRIAD, Vanderbilt Kennedy Center, Nashville, TN
- 3:00 200 123.200 Treatment Adherence in Families of Children Diagnosed with Autism Spectrum Disorders. R. Hock<sup>1</sup>, A. Kinsman<sup>2</sup>, T. P. Cross<sup>3</sup> and J. KelleTT<sup>3</sup>, (1)College of Social Work, University of South Carolina, Columbia, SC, (2)Greenville Hospital System, Greenville, SC, (3)University of South Carolina, Columbia, SC
- 1:00 ▶ 201 123.201 Assessing and Responding to Autism in Underserved Populations. M. M. McCloat<sup>1</sup>, Autism Speaks and College of the Holy Cross, Easton, CT
- 2:00 202 123.202 Service Use and Needs Among People with ASD During the Transitional Years From Adolescence to Young Adulthood. H. L. Hayward<sup>1</sup>, N. Gillan<sup>1</sup>, T. Cadman<sup>1</sup>, H. Eklund<sup>1</sup>, D. Howley<sup>1</sup>, J. Findon<sup>1</sup>, H. Clarke<sup>1</sup>, J. Beecham<sup>2</sup>, K. Xenitidis<sup>3</sup>, D. G. Murphy<sup>1</sup>, P. Asherson<sup>4</sup> and K. Glaser<sup>5</sup>, (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom, (2)Personal Social Services Research Unit at the LSE, London School of Economics and Political Science, London, United Kingdom, (3)Adult Attention Deficit Hyperactivity Disorder (ADHD) Service, South London and Maudsley NHS Trust, London, United Kingdom, (4)MRC Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, Kings College, London, United Kingdom, (5)Department of Gerontology, Kings College, London, United Kingdom
- 3:00 203 123.203 Increased Emergency Department Use for Mental Health Problems Among Children with Autism Spectrum Disorders: A Population-based Study. L. Kalb<sup>1</sup>, R. A. Vasa<sup>2</sup>, E. Stuart<sup>3</sup>, B. H. Freedman<sup>4</sup> and B. Zablotzky<sup>5</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Johns Hopkins School of Public Health, Baltimore, MD, (4)University of Delaware, Newark, DE, (5)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 1:00 204 123.204 Children with Autism Spectrum Disorders and Utilization of Emergency Department Services. Y. Lu, K. Smith<sup>1</sup>, M. Kipke and L. Yin, Pediatrics, Keck School of Medicine of USC, Los Angeles, CA
- 2:00 205 123.205 Predictors of Inpatient Admission for Adults with and without Autism Spectrum Disorders. C. A. McMorris<sup>1</sup>, A. M. Palucka<sup>2</sup>, P. Raina<sup>2</sup> and Y. Lunsky<sup>3</sup>, (1)Clinical-Developmental Psychology, York University, Toronto, ON, Canada, (2)Dual Diagnosis Program, Centre for Addiction and Mental Health, Toronto, ON, Canada, (3)Dual Diagnosis Program, Centre for Addiction and Mental Health, Toronto, ON, Canada

- 3:00 206 123.206 The Medical Home: Impact on Children with Autism Spectrum Disorders and Their Families. J. E. Farmer<sup>1</sup>, M. J. Clark<sup>1</sup>, W. A. Mayfield<sup>1</sup>, N. C. Cheak-Zamora<sup>2</sup>, J. K. Law<sup>3</sup>, A. R. Marvin<sup>4</sup> and P. A. Law<sup>3</sup>, (1)Thompson Center for Autism & Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (2)Department of Health Sciences, University of Missouri, Columbia, MO, (3)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (4)Kennedy Krieger Institute, Baltimore, MD
- 1:00 207 123.207 Parent and Physician Perceptions of Medical Home Needs for Children with Autism in Kentucky. P. G. Williams<sup>1</sup>, S. D. Tomchek<sup>2</sup> and R. Grau<sup>3</sup>, (1)University of Louisville, Louisville, KY, (2)Weisskopf Child Evaluation Center, Louisville, KY, (3)Education, University of Louisville, Louisville, KY
- 2:00 208 123.208 Family Experience of Navigating Systems of Care for Young Persons with Autism. D. McConnell<sup>1</sup>, S. Hodgetts<sup>2</sup>, D. B. Nicholas<sup>3</sup> and L. Zwaigenbaum<sup>4</sup>, (1)Occupational Therapy, University of Alberta, Edmonton, AB, Canada, (2)Pediatrics, University of Alberta, Edmonton, AB, Canada, (3)University of Calgary, Edmonton, AB, Canada, (4)University of Alberta, Edmonton, AB, Canada
- 3:00 209 123.209 Development of the Pathways Autism Services Log (PASL). R. A. Stock<sup>1</sup>, J. Volden<sup>2</sup>, S. Georgiades<sup>3</sup>, M. Alexander<sup>4</sup>, T. Bennett<sup>5</sup>, L. Colli<sup>6</sup>, K. MacLeod<sup>6</sup>, I. O'Connor<sup>3</sup>, C. Shepherd<sup>7</sup>, M. Steiman<sup>8</sup>, P. Szatmari<sup>3</sup>, S. E. Bryson<sup>9</sup>, E. Fombonne<sup>8</sup>, P. Mirenda<sup>10</sup>, W. Roberts<sup>11</sup>, I. M. Smith<sup>9</sup>, T. Vaillancourt<sup>12</sup>, C. Waddell<sup>13</sup> and L. Zwaigenbaum<sup>2</sup>, (1)University of British Columbia, North Vancouver, BC, Canada, (2)University of Alberta, Edmonton, AB, Canada, (3)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (4)Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (5)McMaster University, Welland, ON, Canada, (6)Isaak Walton Killam Hospital, Halifax, NS, Canada, (7)Children's Health Policy Centre, Simon Fraser University, Vancouver, BC, Canada, (8)Montreal Children's Hospital, Montreal, QC, Canada, (9)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (10)University of British Columbia, Vancouver, BC, Canada, (11)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (12)University of Ottawa, Ottawa, ON, Canada, (13)Simon Fraser University, Vancouver, BC, Canada
- 1:00 210 123.210 Canadian Services for Young Children with Autism Spectrum Disorder (ASD): A Preliminary Overview. J. Volden<sup>1</sup>, S. Georgiades<sup>2</sup>, M. Alexander<sup>3</sup>, T. Bennett<sup>2</sup>, L. Colli<sup>4</sup>, K. MacLeod<sup>5</sup>, I. O'Connor<sup>2</sup>, C. Shepherd<sup>6</sup>, M. Steiman<sup>7</sup>, R. A. Stock<sup>8</sup>, P. Szatmari<sup>2</sup>, S. E. Bryson<sup>9</sup>, E. Fombonne<sup>10</sup>, P. Mirenda<sup>11</sup>, W. Roberts<sup>12</sup>, I. M. Smith<sup>9</sup>, T. Vaillancourt<sup>13</sup>, C. Waddell<sup>14</sup>, L. Zwaigenbaum<sup>1</sup> and T. Pathways in ASD Study Team<sup>15</sup>, (1)University of Alberta, Edmonton, AB, Canada, (2)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (3)Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (4)McMaster University, Welland, ON, Canada, (5)Isaak Walton Killam Hospital, Halifax, NS, Canada, (6)Children's Health Policy Centre, Simon Fraser University, Vancouver, BC, Canada, (7)Montreal Children's Hospital, Montreal, QC, Canada, (8)University of British Columbia, North Vancouver, BC, Canada, (9)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (10)McGill University, Montreal, QC, Canada, (11)University of British Columbia, Vancouver, BC, Canada, (12)University of Toronto, Toronto, ON, Canada, (13)University of Ottawa, Ottawa, ON, Canada, (14)Simon Fraser University, Vancouver, BC, Canada, (15)McMaster University, Hamilton, ON, Canada
- 2:00 211 123.211 Parents' and Professionals' Perspectives on Autism Services in Alberta. S. Hodgetts<sup>1</sup>, L. Zwaigenbaum<sup>1</sup> and D. B. Nicholas<sup>2</sup>, (1)University of Alberta, Edmonton, AB, Canada, (2)University of Calgary, Edmonton, AB, Canada
- 3:00 212 123.212 An Updated Evaluation of the Autism Ontario Realize Community Potential Program. M. Thompson<sup>1</sup>, J. H. Schroeder<sup>2</sup>, J. M. Bebko<sup>2</sup>, M. Spoelstra<sup>1</sup>, S. Duhaime<sup>1</sup>, K. Manuel<sup>1</sup> and L. Verbeek<sup>1</sup>, (1)Autism Ontario, Toronto, ON, Canada, (2)Department of Psychology, York University, Toronto, ON, Canada
- 1:00 213 123.213 Outcomes of a Specialized Inpatient Psychiatric Hospital Care for Pediatric Patients with Autism Spectrum Disorders. R. L. Gabriels<sup>1,2</sup>, J. A. Agnew<sup>3</sup>, C. Beresford<sup>4,5</sup>, J. Barnes<sup>5</sup> and C. Karlsson<sup>6</sup>, (1)University of Colorado Denver and Health Sciences Center, Aurora, CO, (2)Psychiatry, Childrens Hospital Colorado, Aurora, CO, (3)Children's Hospital Colorado, The University of Colorado at Denver and Health Sciences Center, Aurora, CO, (4)The University of Colorado Denver and Health Sciences Center, Aurora, CO, (5)Children's Hospital Colorado, Aurora, CO, (6)Psychiatry, Children's Hospital Colorado, Aurora, CO
- 2:00 214 123.214 Autism Comes to the Hospital: Experiences of Hospital Care From the Perspectives of Children and Adolescents with Autism Spectrum Disorders, Their Parents and Health Care Providers. B. Muskat<sup>1</sup>, D. B. Nicholas<sup>2</sup>, W. Roberts<sup>3</sup>, K. Stoddart<sup>4</sup>, L. Zwaigenbaum<sup>5</sup> and P. Burnham Riosa<sup>5</sup>, (1)Hospital for Sick Children, Toronto, ON, Canada, (2)University of Calgary, Edmonton, AB, Canada, (3)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (4)Redpath Centre, Toronto, ON, Canada, (5)University of Alberta, Edmonton, AB, Canada, (6)Department of Social Work, The Hospital for Sick Children, Toronto, ON, Canada
- 3:00 215 123.215 Evaluating S.A.F.F.E. A Program for Families with Children Who Have ASD. T. Todd<sup>1</sup> and G. Rieck<sup>2</sup>, (1)California State University, Chico, CA, (2)Kinesiology, California State University, Chico, CA
- 1:00 216 123.216 Do Physicians and Parents Communicate about Complementary and Alternative Treatments for Children with Autism Spectrum Disorders? A. M. L. Wilms Floet<sup>1</sup>, K. Kosztyo<sup>2</sup>, A. Moylan<sup>3</sup>, K. Boswell<sup>4</sup> and L. Kalb<sup>5</sup>, (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Loyola University of Maryland, Baltimore, MD, (3)University of Maryland, Baltimore, MD, (4)Kennedy Krieger Institute, Baltimore, MD, (5)Kennedy Krieger Institute, Baltimore, MD

# FRIDAY May 18, 2012 - AM

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6:30-5:00P	Registration – Lower Concourse			
7:00-8:30A	Coffee & Pastries – Grand Ballroom Foyer			
7:00-8:30A	<b>SIG</b> – Dominion Ballroom South	<b>SIG</b> – Dominion Ballroom North	<b>SIG</b> – Osgoode Ballroom East	<b>SIG</b> – VIP Room
8:00-5:00P	<b>Exhibits</b> – Sheraton Hall			
8:45-9:00A	Introduction: NIH – Grand Ballroom			
9:00-9:45A	<b>Keynote Address:</b> Bernie Devlin - Common and Rare Genetic Variants in the Etiology of ASD: Where Is the Field Heading?– Grand Ballroom		8:00-12:30P Sheraton Hall <b>Innovative Technologies Demonstration Session</b>	8:00-12:30P <b>Poster Session</b> – Sheraton Hall  Electrophysiology: Early Signs Social Skills, Schools, Stress Early Intervention Pharmacologic, Treatment Factors, Outcome Measures
9:45-10:15A	Break – Sheraton Hall			
10:15-12:15P	<b>IES</b> – Grand Ballroom Centre Biology-based Classification and Prediction in Autism Spectrum Disorders: Promises and Pitfalls			
10:15-12:15P	<b>Oral Session</b> – Grand Ballroom East Genetics I	<b>Oral Session</b> – Grand Ballroom West Brain Imaging: fMRI- Cognition, Motion Perception and Function, and Reward Processing	<b>Oral Session</b> – Osgoode Ballroom East Epidemiology	
12:15-1:30P	Lunch Break – On Your Own			
12:15-1:30P	<b>Student “Meet-the-Experts” Luncheon</b> (pre-registration required) – Dominion Ballroom South			
12:15-1:30P	<b>Autism Community Stakeholders Luncheon</b> – Dominion Ballroom North			

**FRIDAY – AM**

## Special Interest Groups (SIGs)

7:00 AM - 8:30 AM

Location listed under each session

Final SIG – last year in multiple year rotation

### New SIG: Global Knowledge Translation for Research on Early Identification and Intervention in Autism

*Co-Chairs:* Dr. Mayada Elsabbagh, *McGill University* and Dr. Petrus de Vries, *University of Cape Town*

Dominion Ballroom South

There is increasing appreciation of the need to enhance research impact through the iterative and dynamic process of knowledge translation: The synthesis, dissemination, exchange, and application of knowledge to improve quality of life for people affected by autism. This SIG will initiate dialogue, identifying knowledge gaps, barriers, and action priorities with a particular emphasis on global knowledge translation in the area of early identification and intervention for autism.

### Final SIG: Sleep in Autism

*Co-Chairs:* Beth Malow, M.D., M.S., *Vanderbilt University* and Amanda Richdale, Ph.D., *LaTrobe University*

Dominion Ballroom North

This year’s Sleep SIG will focus on brief presentations related to etiology and interventions for sleep disturbances in ASD. We would like to include trainees and junior faculty in these presentations, with commentaries from mid-level and senior investigators to stimulate discussion among the group. Please contact beth.malow@vanderbilt.edu if you are

interested in presenting. As this is the last year of our SIG, we will also explore opportunities for continued collaboration and networking.

### Final SIG: Contextually-based Intervention Research in ASD

*Co-Chairs:* Laura Anthony, Ph.D. and Lauren Kenworthy, Ph.D., *Children’s National Medical Center*

Osgoode Ballroom East

In our final year as an IMFAR SIG, we hope to develop: an educational symposium for the 2013 IMFAR, a publication following the symposium, and a mechanism to continue collaboration in the future. The symposium and paper would address issues unique to conducting contextually-based intervention research in autism in terms of what has been learned to date: methodologies and limitations; conceptual breakthroughs; and existing controversies and future directions.

### Final SIG: Postmortem Brain Tissue Research in Autism

*Co-Chairs:* Cyndi Schumann, Ph.D., *UC Davis MIND Institute* and Robert Ring, Ph.D., *Autism Speaks*

VIP Room

The limited availability of high-quality postmortem brain tissue is arguably the most pressing issue facing of the tissue-based research community in autism today. A crisis has emerged as demands for tissue from a rapidly growing research community have begun to outstrip current resources. This SIG will be focused on exploring innovative approaches to address this crisis and improving the scale,



quality and diversity of the field's current postmortem tissue collection. Specifically, a proposed network-based model for improving the collection, processing, storage and distribution of tissue will be presented for public discussion.

**Keynote Address**

**124 - Common and Rare Genetic Variants in the Etiology of ASD: Where Is the Field Heading?**

9:00 AM - 9:45 AM - Grand Ballroom

*Speaker:* B. Devlin; *University of Pittsburgh School of Medicine*

This presentation will summarize our current understanding of the genetic architecture of ASD, focusing on recent studies from the Simons Simplex Collection and the Autism Genome Project, highlighting the role of common and rare genetic variants. Important evidence gaps will be identified and exciting new approaches outlined that might address those gaps. The potential for translation of these findings into changes in clinical practice will also be described.

**Invited Educational Symposium**

**125 - Biology-based Classification and Prediction in Autism Spectrum Disorders: Promises and Pitfalls**

10:15 AM - 12:15 PM - Grand Ballroom Centre

*Session Chair:* N. Lange; *Harvard University Schools of Medicine & Public Health*

The symposium will teach participants the basics of a wide variety of quantitative methods in present use, as well as potential future directions of this burgeoning research area, guided by leading researchers and educators in autism psychiatry, genetics, imaging and behavioral-cognitive measures. Each speaker will be knowledgeable in broader aspects of this field beyond their own scientific and clinical contributions, and be excellent teachers of general audiences with diverse backgrounds. Their intentions will be, as the title indicates, two-fold: promises and pitfalls. Ethical reporting issues involving scientists, parents and individuals with the disorder, and the media, will also be addressed.

10:15 ▶ 125.001 Critical Clinical Needs in Classification and Prediction for Older Children, Adolescents and Adults with Autism. J. E. Lainhart, Psychiatry, University of Utah, Salt Lake City, UT

10:45 125.002 Analysis of Imaging Patterns Using Pattern Recognition Methods: Application to Development of Imaging-based Biomarkers for Autism. C. Davatzikos, Radiology, University of Pennsylvania, Philadelphia, PA

11:15 125.003 A Cognitive Neuroscience Approach to the Early Identification of Autism. C. A. Nelson, Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA

11:45 ▶ 125.004 Biology-based Candidate Intermediate Phenotypes In Autism Research: Hope or Hype?. N. J. Minshew, Psychiatry & Neurology, University of Pittsburgh, Pittsburgh, PA

**Oral Sessions**

**126 - Genetics I**

10:15 AM - 12:15 PM - Grand Ballroom East

10:15 126.001 Results of the PGC Autism GWAS and Combined Autism-Schizophrenia Meta-Analysis: SNPs in Three Regions Are Associated with ASD and Schizophrenia. S. L. Santangelo, Center for Human Genetic Research, Harvard Medical School/Massachusetts General Hospital, Boston, MA; Epidemiology, Harvard School of Public Health, Boston, MA; Autism Working Group, Psychiatric GWAS Consortium, Boston, MA; Schizophrenia Working Group, Psychiatric GWAS Consortium, Boston, MA

10:30 126.002 Use of Common Genetic Variants to Identify Risk of Autism in Siblings of Children Diagnosed with Autism Spectrum Disorders. F. Liebaert<sup>1</sup>, B. A. Dombroski<sup>2</sup>, G. D. Schellenberg<sup>2</sup>, T. Rio Frio<sup>1</sup>, J. Carayol<sup>1</sup>, C. Amiet<sup>1,3</sup>, B. Génin<sup>1</sup>, C. Vazart<sup>1</sup>, K. Fontaine<sup>1</sup>, C. Marcaillou<sup>1</sup>, F. Rousseau<sup>1</sup>, E. Couchon<sup>4</sup> and G. Dawson<sup>5</sup>, (1)IntegraGen SA, Evry, France, (2)Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA, (3)Service de Psychiatrie de l'Enfant et de l'Adolescent, APHP, GHU Pitié-Salpêtrière, Paris, France, (4)IntegraGen, Inc, Cambridge, MA, (5)University of North Carolina, Autism Speaks, Chapel Hill, NC

10:45 126.003 Variable Phenotypic Expressivity of Specific Copy Number Variants and Single Gene Mutations in Autism and Other Neurodevelopmental Disorders. S. M. Myers<sup>1,2</sup>, A. Moreno de Luca<sup>2</sup>, T. D. Challman<sup>1</sup>, G. S. Gerhard<sup>2</sup>, D. W. Evans<sup>3</sup>, P. T. Orr<sup>2</sup> and D. H. Ledbetter<sup>2</sup>, (1)Neurodevelopmental Pediatrics, Geisinger Health System, Danville, PA, (2)Genomic Medicine, Geisinger Health System, Danville, PA, (3)Bucknell University, Lewisburg, PA

11:00 126.004 Genetic Study of Asperger Syndrome and Autism Cases That Segregate in a Brazilian Family. C. M. Ribeiro<sup>1</sup>, V. N. Takahashi<sup>2</sup>, D. P. Moreira<sup>1</sup>, M. G. Rodrigues<sup>1</sup>, K. Griesi-Oliveira<sup>1</sup>, C. Rosenberg<sup>1</sup>, D. R. Bertola<sup>1</sup>, E. Vasdasz<sup>3</sup> and M. R. Passos-Bueno<sup>1</sup>, (1)Department of Genetics and Evolutionary Biology, University São Paulo, Biosciences Institute, São Paulo, Brazil, (2)Human Genome Center, University of São Paulo, São Paulo, Brazil, (3)Department of Psychiatry Faculty of Medicine, Institute of Psychiatry, Hospital of the Faculty of Medicine, University of São Paulo, São Paulo, Brazil

11:15 126.005 Shared Neuronal Pathways Affected by Common and Rare Variants in Autism Spectrum Disorders. E. Ben-David and S. Shifman, The Hebrew University of Jerusalem, Jerusalem, Israel

11:30 126.006 New Insights Into Autism From the Candidate Genes-Centered Interactome. R. Corominas<sup>1</sup>, X. Yang<sup>2,3</sup>, G. N. Lin<sup>1</sup>, S. Kang<sup>4</sup>, Y. Shen<sup>2,3</sup>, S. A. Wanamaker<sup>2,3</sup>, S. Tam<sup>2,3</sup>, M. Rodriguez<sup>2,3</sup>, M. Broly<sup>2,3</sup>, J. Sebat<sup>4</sup>, K. Salehi-Ashtiani<sup>2,3</sup>, D. E. Hill<sup>2,3</sup>, M. Vidal<sup>2,3</sup>, T. Hao<sup>2,3</sup> and L. M. Iakoucheva<sup>1</sup>, (1)Department of Psychiatry, University of California San Diego, La Jolla, CA, (2)Center for Cancer Systems Biology (CCSB) and Department of Cancer Biology, Dana-Farber Cancer Institute, Boston, MA, (3)Department of Genetics, Harvard Medical School, Boston, MA, (4)Psychiatry, University of California, San Diego, CA



- 11:45 126.007 Identification of Protein Subnetworks Implicated in Autism Spectrum Disorders (ASD). C. Correia<sup>1,2</sup>, Y. Diekmann<sup>2</sup>, J. B. Pereira-Leal<sup>2</sup>, G. Oliveira<sup>3</sup> and A. M. Vicente<sup>1,2</sup>, (1)Instituto Nacional de Saúde Dr. Ricardo Jorge, Lisboa, Portugal, (2)Instituto Gulbenkian de Ciência, Oeiras, Portugal, (3)Hospital Pediátrico de Coimbra, Coimbra, Portugal
- 12:00 126.008 Gene Network Analysis of Autism and Autoimmune Disorders. J. Y. Jung<sup>1</sup> and D. P. Wall<sup>2</sup>, (1)Harvard Medical School, Boston, MA, (2)Pathology/Center for Biomedical Informatics, Harvard Medical School, Boston, MA

**Oral Sessions**

**127 - Brain Imaging: fMRI Cognition, Motion Perception and Function, and Reward Processing**

10:15 AM - 12:15 PM - Grand Ballroom West

- 10:15 127.001 Using Visual Strategies to Remember Verbal Information: An fMRI Study of Working Memory in Children with and without Autism. E. J. Carter<sup>1,2</sup>, D. L. Williams<sup>3</sup>, J. F. Lehman<sup>4</sup> and N. J. Minshew<sup>5</sup>, (1)Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, (2)Psychology, Carnegie Mellon University, Pittsburgh, PA, (3)Speech-Language Pathology, Duquesne University, Pittsburgh, PA, (4)Computer Science, Carnegie Mellon University, Pittsburgh, PA, (5)Psychiatry & Neurology, University of Pittsburgh, Pittsburgh, PA
- 10:30 127.002 Increased Attentional Activation During Reading in ASC: An fMRI Study of Visual Language. J. R. Cooperrider<sup>1,2</sup>, J. A. Nielsen<sup>1,2</sup>, J. S. Anderson<sup>2,3</sup>, A. Froehlich<sup>1</sup>, M. B. DuBray<sup>1,2</sup>, A. Cariello<sup>1</sup>, A. Alexander<sup>4,5</sup>, E. D. Bigler<sup>1,6</sup>, N. Lange<sup>7,8</sup> and J. E. Lainhart<sup>1,2</sup>, (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)Interdepartmental Program in Neuroscience, University of Utah, Salt Lake City, UT, (3)Radiology, University of Utah, Salt Lake City, UT, (4)Medical Physics, University of Wisconsin, Madison, WI, (5)Psychiatry, University of Wisconsin, Madison, WI, (6)Psychology and Neuroscience, Brigham Young University, Provo, UT, (7)Psychiatry, Harvard University, Cambridge, MA, (8)Biostatistics, Harvard University, Cambridge, MA
- 10:45 127.003 Diagnostic Utility of Brain Mechanisms for Processing Biological Motion. N. Wang<sup>1</sup>, M. Björnsdotter, K. A. Pelphrey and M. D. Kaiser, Child Study Center, Yale University, New Haven, CT
- 11:00 127.004 Atypical Evidence Accumulation in Global Motion Decisions in Autism: Brain and Behavior. C. E. Robertson<sup>1,2</sup>, C. Thomas<sup>2</sup>, D. Kravitz<sup>2</sup>, E. Dixon<sup>2</sup>, G. L. Wallace<sup>2</sup>, A. Martin<sup>2</sup>, S. Baron-Cohen<sup>3</sup> and C. I. Baker<sup>2</sup>, (1)University of Cambridge, Cambridge, United Kingdom, (2)NIMH, National Institutes of Health, Bethesda, MD, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

- 11:15 127.005 Symptoms of Sensory Sensitivity and Anxiety As Predictors of Amygdala and Hippocampus Activation to Sensory Stimuli in Youth with and without ASD. S. A. Green<sup>1</sup>, N. L. Colich<sup>2</sup>, J. D. Rudie<sup>3</sup>, D. Shirinyan<sup>3</sup>, M. Dapretto<sup>4</sup> and S. Y. Bookheimer<sup>5</sup>, (1)UCLA, Los Angeles, CA, (2)Psychology, Stanford University, Stanford, CA, (3)Brain Mapping Center, University of California, Los Angeles, CA, (4)UCLA, Los Angeles, CA, (5)Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, CA
- 11:30 127.006 Social and Monetary Reward Processing in Autism Spectrum Disorders (ASD): Interaction Effects in the Striatum. S. Delmonte<sup>1</sup>, J. H. Balsters<sup>2</sup> and L. Gallagher<sup>1</sup>, (1)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland, (2)Department of Psychology, Trinity College Dublin, Dublin, Ireland
- 11:45 127.007 Neural Reward System Response to Food Cues in Autism Spectrum Disorders. C. J. Cascio<sup>1</sup>, J. H. Foss-Feig<sup>2</sup>, J. L. Heacock<sup>3</sup> and C. R. Newsom<sup>4</sup>, (1)Psychiatry, Vanderbilt University School of Medicine, Nashville, TN, (2)Psychology, Vanderbilt University, Nashville, TN, (3)Special Education, Ohio State University, Columbus, OH, (4)Pediatrics, Vanderbilt University, Nashville, TN
- 12:00 127.008 Acute Fluoxetine Leads to Increased Prefrontal Activation in Children with Autism Spectrum Disorder During Tasks of Executive Function. K. Chantiluke<sup>1</sup>, A. Smith<sup>1</sup>, N. Barrett<sup>2</sup>, P. Santosh<sup>3</sup>, V. Giampietro<sup>4</sup>, D. G. Murphy<sup>5</sup> and K. Rubia<sup>1</sup>, (1)Department of Child and Adolescent Psychiatry, King's College London, Institute of Psychiatry, London, United Kingdom, (2)SLaM, National Health Service, London, United Kingdom, (3)Great Ormond Street Hospital, National Health Service, London, United Kingdom, (4)Department of Neuroimaging, King's College, Institute of Psychiatry, London, United Kingdom, (5)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom

**Oral Sessions**

**128 - Epidemiology**

10:15 AM - 12:15 PM - Osgoode Ballroom East

- 10:15 ▶ 128.001 Feasibility of Autism Screening in Underserved Populations. Y. Janvier<sup>1</sup>, P. Hampton<sup>2</sup>, M. Zuniga<sup>3</sup> and G. Cable<sup>4</sup>, (1)Children's Specialized Hospital, Toms River, NJ, (2)Autism, Children's Specialized Hospital, Toms River, NJ, (3)Autism, Children's Specialized Hospital, Mountainside, NJ, (4)Children's Specialized Hospital, New Brunswick, NJ
- 10:30 128.002 The Female Protective Effect Against Autistic Behavior: Evidence From Two Nationally Representative Samples. E. Robinson<sup>1</sup>, P. Lichtenstein<sup>2</sup>, H. Anckarsater<sup>3</sup>, F. Happe<sup>4</sup> and A. Ronald<sup>5</sup>, (1)Harvard School of Public Health, Boston, MA, (2)Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm, Sweden, (3)University of Gothenburg, Gothenburg, Sweden, (4)Social, Genetic and Developmental Psychiatry (SGDP) Centre, Institute of Psychiatry, London, United Kingdom, (5)Birkbeck College, London, United Kingdom

- 10:45 128.003 Early Gestational Levels of Persistent Organic Pollutants and Autism in a Finnish National Birth Cohort. K. Cheslack-Postava<sup>1</sup>, P. Rantakokko<sup>2</sup>, S. Hinkka-Yli-Salomaki<sup>3</sup>, H. M. Surcel<sup>4</sup>, I. W. McKeague<sup>1</sup>, A. Sourander<sup>5</sup> and A. S. Brown<sup>6</sup>, (1)Columbia University, New York, NY, (2)National Institute for Health and Welfare (THL), Kuopio, Finland, (3)University of Turku, Turku, Finland, (4)National Institute for Health and Welfare (THL), Oulu, Finland, (5)Dept. of Child Psychiatry, University of Turku, Turku, Finland, (6)Dept. of Psychiatry, College of Physicians and Surgeons of Columbia University, NYSPI, New York, NY
- 11:00 128.004 Parental Socioeconomic Status and Risk of Offspring Autism Spectrum Disorders. D. Rai<sup>1,2</sup>, G. Lewis<sup>1</sup>, M. Lundberg<sup>2</sup>, R. Araya<sup>1</sup>, A. Svensson<sup>2</sup>, C. Dalman<sup>2</sup>, P. Carpenter<sup>3</sup> and C. Magnusson<sup>2</sup>, (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (3)Psychiatry of Learning Disability, Avon and Wiltshire Partnership NHS Mental Health Trust, Bristol, United Kingdom
- 11:15 128.005 Prevalence and Neonatal Factors Associated with ASD in Preterm Infants. M. W. Kuzniewicz, S. Wi, Y. Qian, E. M. Walsh, M. A. Armstrong and L. A. Croen, Kaiser Permanente Division of Research, Oakland, CA
- 11:30 128.006 Gene-Environment Interaction: Impact of MET Gene on Traffic Exposure From Freeways As a Risk Factor for Autism. H. E. Volk<sup>1,2</sup>, T. Kerin<sup>3</sup>, I. Hertz-Picciotto<sup>4,5</sup>, F. Lurmann<sup>6</sup>, R. McConnell<sup>7</sup> and D. B. Campbell<sup>8</sup>, (1)Children's Hospital Los Angeles, Los Angeles, CA, (2)Preventive Medicine, Pediatrics, Zilkha Neurogenetic Institute, University of Southern California, Los Angeles, CA, (3)Department of Preventive Medicine, University of Southern California, Los Angeles, CA, (4)Department of Public Health Sciences, University of California Davis, Davis, CA, (5)M.I.N.D. Institute, Sacramento, CA, (6)Sonoma Technology, Inc., Petaluma, CA, (7)Preventive Medicine, University of Southern California, Los Angeles, CA, (8)University of Southern California, Los Angeles, CA
- 11:45 128.007 Autism Spectrum Disorder Reclassified: A Second Look At the 1980's Utah/UCLA Autism Epidemiologic Study. J. S. Miller<sup>1</sup>, D. Bilder<sup>2</sup>, C. E. Rice<sup>3</sup>, M. Farley<sup>4</sup>, H. Coon<sup>5</sup>, E. Fombonne<sup>6</sup>, C. Pingree<sup>7</sup>, E. R. Ritvo<sup>8</sup>, A. Ritvo<sup>9</sup> and W. M. McMahon<sup>10</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Utah Autism Research Project, University of Utah, Salt Lake City, UT, (3)Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (4)University of Utah, Salt Lake City, UT, (5)Utah Autism Research Project, University of Utah, Salt Lake City, UT, (6)McGill University, Montreal, QC, Canada, (7)University of Utah, Salt Lake City, UT, (8)UCLA Medical School, Los Angeles, CA, (9)University of California, Los Angeles, CA, (10)Department of Psychiatry, University of Utah, Salt Lake City, UT

- 12:00 128.008 The Role of Preeclampsia in Autism Spectrum Disorders and Cognitive Function. C. K. Walker<sup>1</sup>, P. Krakowiak<sup>2</sup>, A. S. Baker<sup>3</sup>, R. L. Hansen<sup>4</sup>, S. Ozonoff<sup>5</sup> and I. Hertz-Picciotto<sup>6</sup>, (1)Obstetrics & Gynecology, University of California, Davis, Sacramento, CA, (2)Public Health Sciences, University of California, Davis, CA, (3)School of Public Health, University of California, Berkeley, CA, (4)Pediatrics, M.I.N.D. Institute, UC Davis, Sacramento, CA, (5)Psychiatry and Behavioral Sciences, M.I.N.D. Institute, UC Davis, Sacramento, CA, (6)Public Health Sciences, M.I.N.D. Institute, UC Davis, Davis, CA

Poster Sessions

129 - Innovative Technologies Demonstration Session

8:00 AM - 12:30 PM - Sheraton Hall

- 1 129.001 Building a Data Warehouse Describing the Autism Research Community in a New Way: Extract, Load and Transform (ELT). C. Tirrell<sup>1</sup>, M. Peddle<sup>1</sup>, S. B. Johnson<sup>2</sup>, C. D. Walentas<sup>3</sup>, O. McGettrick<sup>1</sup>, B. Lawlor<sup>1</sup>, H. Agnew<sup>1</sup>, D. Voccola<sup>1</sup> and L. Rozenblit<sup>1</sup>, (1)Prometheus Research, LLC, New Haven, CT, (2)Public Health, Weill Cornell Medical College, New York, NY, (3)Self, New York, NY
- 2 129.002 Hypertext Rapid Application Framework (HTRAF): An Innovative Application-Development Layer Enables Rapid Delivery of Web Applications for Autism Research and Autism Funding Decisions. O. McGettrick, O. Golovko, B. Lawlor, D. Voccola and L. Rozenblit, Prometheus Research, LLC, New Haven, CT
- 3 129.003 The Simons Scientific Information Management System: Supporting Scientific Decision Making in Autism Research Using a Light-Weight Web-Development Methodology. L. Rozenblit<sup>1</sup>, O. McGettrick<sup>1</sup>, C. Tirrell<sup>1</sup>, M. Peddle<sup>1</sup>, H. Agnew<sup>1</sup>, B. Lawlor<sup>1</sup>, N. Sinanis<sup>1</sup>, D. Voccola<sup>1</sup> and S. B. Johnson<sup>2</sup>, (1)Prometheus Research, LLC, New Haven, CT, (2)Public Health, Weill Cornell Medical College, New York, NY
- 4 129.004 PRIMA PIETRA: Research, Integration, Enhancement, Assistance and Education Program for Autism Services and Rehabilitation Technologies. G. Pioggia<sup>1</sup>, L. Billeci<sup>1</sup>, A. Narzisi<sup>2</sup>, V. Farruggio<sup>1</sup>, A. Arnao<sup>1</sup>, G. Tartarisco<sup>1</sup>, M. Ferro<sup>3</sup>, R. Siracusano<sup>4</sup>, E. Germanò<sup>4</sup>, M. Deodato<sup>5</sup>, G. Tortorella<sup>4</sup> and F. Muratori<sup>6</sup>, (1)Institute of Clinical Physiology, National Council of Research, Pisa, Italy, (2)Division of Child Neurology and Psychiatry, University of Pisa - Stella Maris Scientific Institute, Pisa, Italy, (3)Institute of Computational Linguistics, National Council of Research, Pisa, Italy, (4)Department of Child Neuropsychiatry, University of Messina, Hospital "G. Martino", Messina, Italy, (5)Department of Child and Adolescence Neuropsychiatry, Azienda Sanitaria Provinciale, Messina, Italy, (6)University of Pisa - Stella Maris Scientific Institute, Calambrone (Pisa), Italy
- 5 129.005 Demonstrating Cloud Computing Capabilities Using NDAR, Pipelines and the Autism Informatics Grid. D. Hall<sup>1</sup>, R. Stoner<sup>2</sup>, B. Koser<sup>3</sup>, S. Novikova<sup>4</sup>, M. McAuliffe<sup>5</sup> and G. F. Farber<sup>6</sup>, (1)National Institute of Mental Health (NIMH), Bethesda, MD, (2)Neurosciences and UCSD Autism Center of Excellence, University of California, San Diego, La

Jolla, CA, (3)National Institute of Mental Health, Rockville, MD, (4)The Office of Technology Development and Coordination, NIMH, Rockville, MD, (5)CIT, NIH Center for Information Technology, Bethesda, MD, (6)Office of Technology Development and Coordination, National Institute of Mental Health, Rockville, MD

6 129.006 "Is All Autism Local?" the Value of Functional Regional Registries and Data Systems. A. Vehorn<sup>1</sup>, E. Dykens<sup>2</sup> and Z. Warren<sup>3</sup>, (1)TRIAD, Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)TRIAD, Vanderbilt Kennedy Center, Nashville, TN

7 129.007 Connecting the Genetic Dots of Autism Through Systems Biology. D. P. Wall<sup>1,2,3</sup>, J. Y. Jung<sup>4</sup>, T. Nelson<sup>4</sup> and K. St. Gabriel<sup>5</sup>, (1)Harvard Medical School, Harvard Medical School, Boston, MA, (2)Pathology/Center for Biomedical Informatics, Harvard Medical School, Boston, MA, (3)Pediatrics, Harvard Medical School, Boston, MA, (4)Harvard Medical School, Boston, MA, (5)Center for Biomedical Informatics, Harvard Medical School, Boston, MA

8 129.008 Development of A Training Video to Teach Best Practices for Delivering An ASD Diagnosis to Families. H. Austin<sup>1</sup>, T. Katz<sup>2</sup> and J. P. M. Reyes<sup>3</sup>, (1)University of Colorado, Denver, Aurora, CO, (2)University of Colorado, Aurora, CO, (3)Psychology, University of Denver, Denver, CO

9 129.009 Facilitating Parents' Collection of In-Home Behavior Specimens. N. Nazneen<sup>1</sup>, G. D. Abowd<sup>1</sup>, R. Oberleitner<sup>2</sup>, S. Pharkute<sup>2</sup> and R. Arriaga<sup>1</sup>, (1)Georgia Institute of Technology, Atlanta, GA, (2)Behavior Imaging Solutions, Boise, ID

10 129.010 Family-Centered Occupational Therapy and Telerehabilitation for Children with Autism Spectrum Disorders. V. D. Gibbs<sup>1</sup> and S. Toth-Cohen<sup>2</sup>, (1)Universal Progressive Therapy, Clifton, NJ, (2)Thomas Jefferson University, Philadelphia, PA

11 129.011 SocialMirror: A Specialized Social Networking Service to Promote the Independence of Young Adults with Autism. H. Hong<sup>1</sup>, J. G. Kim, G. D. Abowd and R. Arriaga, Georgia Institute of Technology, Atlanta, GA

▶ 12 129.012 Collaborative Collocated Technologies to Promote Social Communication in Children with HFASD. E. Gal<sup>1</sup>, S. Eden<sup>2</sup>, M. Zancanaro<sup>3</sup> and P. L. Weiss<sup>1</sup>, (1)University of Haifa, Haifa, Israel, (2)Bar-Ilan University, Tel Aviv, Israel, (3)Bruno Kessler Foundation, Trento, Italy

▶ 13 129.013 Exploring the Use of Cross-Cultural Parameterised Avatars in Virtual Learning Environments for Social Competence of People with Autism Spectrum Conditions. M. Habash<sup>1</sup>, D. Moore and C. Pattinson, Computing & Creative Technology, Leeds Metropolitan University, Leeds, United Kingdom

14 129.014 Promoting Social Communication in Children on the Autism Spectrum Through a Virtual Learning Environment (ECHOES). K. Guldberg<sup>1</sup>, A. Alcorn<sup>2</sup>, M. Mademtzi<sup>1</sup> and H. Pain<sup>3</sup>, (1)School of Education, University of Birmingham, Birmingham, United Kingdom, (2)University of Edinburgh, Edinburgh, United Kingdom, (3)School of Informatics, University of Edinburgh, Edinburgh, United Kingdom

15 129.015 Surprising Events within a Virtual Environment: A Catalyst for the Initiation of Spontaneous Social Interactions by Children with ASD. A. M. Alcorn<sup>1</sup>, H. Pain<sup>1</sup>, J. Good<sup>2</sup> and G. Rajendran<sup>3</sup>, (1)School of Informatics, University of Edinburgh, Edinburgh, United Kingdom, (2)Department of Informatics, University of Sussex, Brighton, United Kingdom, (3)School of Psychological Sciences and Health, Strathclyde University, Glasgow, United Kingdom

16 129.016 A Simon-Says Robot Providing Autonomous Imitation Feedback Using Graded Cueing. D. Feil-Seifer<sup>1,2</sup> and M. J. Mataric<sup>2</sup>, (1)Computer Science, Yale University, New Haven, CT, (2)Computer Science, University of Southern California, Los Angeles, CA

17 129.017 Using Robot Assisted Therapy Tools in Rhythm and Locomotion Intervention Contexts with Typically Developing Children and Children with Autism. T. Gifford<sup>1</sup>, C. Wanamaker<sup>2</sup>, D. Dotov<sup>2</sup>, G. Dressler<sup>3</sup>, S. Srinivasan<sup>4</sup>, M. Kaur<sup>4</sup>, K. Marsh<sup>2</sup> and A. Bhat<sup>4</sup>, (1)University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)Psychology, UConn, Storrs, CT, (4)Kinesiology, University of Connecticut, Storrs, CT

18 129.018 Robot-Mediated Adaptive Response System in Joint Attention Task for Children with Autism Spectrum Disorders. E. T. Bekele<sup>1,2</sup>, A. Swanson<sup>3,4</sup>, A. C. Vehorn<sup>5</sup>, J. A. Crittendon<sup>4,6</sup>, Z. Warren<sup>2,3,7,8</sup> and N. Sarkar<sup>2,9</sup>, (1)Electrical Engineering, Vanderbilt University, Nashville, TN, (2)Autos Lab, Vanderbilt University, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Vanderbilt Autos Lab, Nashville, TN, (5)Vanderbilt University, Nashville, TN, (6)Vanderbilt Kennedy Center, Nashville, TN, (7)Vanderbilt University, Nashville, TN, (8)Pediatrics, Vanderbilt University, Nashville, TN, (9)Mechanical Engineering, Vanderbilt University, Nashville, TN

19 129.019 Case Studies on the Feasibility of Exergaming to Enhance Physical Activity in Youth with Autism Spectrum Disorders. A. C. Foran<sup>1</sup> and S. A. Cermak, Occupational Science & Occupational Therapy, University of Southern California, Los Angeles, CA

20 129.020 MindGamers in School. R. H. Rice<sup>1</sup>, 14534, Pittsford, NY

21 129.021 Influencing Gaze Behavior and Expression Recognition. M. Eckhardt<sup>1</sup> and M. S. Goodwin<sup>2</sup>, (1)Massachusetts Institute of Technology, The Media Laboratory, Cambridge, MA, (2)Northeastern University, Boston, MA

22 129.022 Automated Detection of Mutual Eye Contact and Joint Attention Using a Single Wearable Camera System. Y. Han<sup>1</sup>, A. Fathi<sup>2</sup>, G. D. Abowd<sup>1</sup> and J. Rehg<sup>1</sup>, (1)Georgia Institute of Technology, Atlanta, GA, (2)Atlanta, GA

23 129.023 Viewing Patterns of Adults with Autism During a Community Art Recreation Activity. E. S. Kim<sup>1</sup>, A. Naples, B. Reichow, E. B. Gisin, M. G. Perlmutter, F. R. Volkmar and F. Shic, Child Study Center, Yale University School of Medicine, New Haven, CT

24 129.024 Analyzing the Physiological Synchrony of Children with Autism and Their Parents with Signal Processing Techniques. T. Chaspari<sup>1</sup>, C. C. Lee, M. P. Black and S. S. Narayanan, Signal Analysis and Interpretation Laboratory (SAIL), University of Southern California, Los Angeles, CA



▶ 25 129.025 E-Mintza: A Free Application for Augmentative Communication. J. Fuentes<sup>1</sup>, N. Azpiazu<sup>2</sup>, A. Basurco<sup>2</sup>, I. Lazkoz<sup>3</sup>, F. Sánchez<sup>4</sup> and B. Villamía<sup>5</sup>, (1)Child and Adolescent Psychiatry Service, Policlínica Gipuzkoa, San Sebastian, Spain, (2)Fundación Dr. Carlos Elósegui, Policlínica Gipuzkoa, San Sebastian, Spain, (3)GAUTENA Autism Society, San Sebastian, Spain, (4)Nesplora Technology & Behavior, San Sebastian, Spain, (5)Fundación Orange, Madrid, Spain

26 129.026 Infusing Speech Output Technology Into the Picture Exchange Communication System for Children with Autism. O. Wendt<sup>1</sup>, M. C. Boesch<sup>2</sup>, A. Subramanian<sup>3</sup>, N. Hsu<sup>4</sup> and K. M. Johnstone<sup>5</sup>, (1)Heav 202D, Purdue University, West Lafayette, IN, (2)Educational Psychology and Special Education, University of Northern Texas, Denton, TX, (3)Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN, (4)Educational Studies, Purdue University, West Lafayette, IN, (5)Speech-Language Pathology, Illinois State University, Normal, IL

27 129.027 Naturalistic Daylong Audio Monitoring Using LENA: Current and Potential Applications. J. A. Richards<sup>1</sup>, D. Xu and J. Gilkerson, LENA Research Foundation, Boulder, CO

▶ 28 129.028 Validation of Language Environment Analysis (LENA) Systems in Arabic-Speaking Individuals. M. Aldosari<sup>1</sup>, A. Almuslamani<sup>1</sup>, F. Wilson<sup>2</sup> and J. Gilkerson<sup>3</sup>, (1)Department of Neurosciences, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (2)Speech Pathology, KFSH&RC, Riyadh, Saudi Arabia, (3)LENA Foundation, Boulder, CO

29 129.029 Towards a Tool to Support the Authoring of Social Skills Instructional Modules. F. A. Boujarwah, H. Versee<sup>1</sup>, G. D. Abowd and R. Arriaga, Georgia Institute of Technology, Atlanta, GA

30 129.030 AMA, a Tool for Annotation, Monitoring and Analysis of Behavioral Activity. J. Hernandez<sup>1</sup>, A. Sano, M. S. Goodwin and R. W. Picard, Media Lab, Massachusetts Institute of Technology, Cambridge, MA

11:00 33 130.033 Resting-State Gamma Power and Early Language Function in Infants At Risk for Autism. A. Norona<sup>1</sup>, K. McEvoy, C. Shimizu, T. Hutman and S. S. Jeste, Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA

9:00 34 130.034 Human and Non-Human Action Sound Processing in Toddlers At Risk for Autism. C. Stefanidou<sup>1</sup>, R. Ceponiene<sup>2</sup> and J. McCleery<sup>3</sup>, (1)School of Psychology, University of Birmingham, Birmingham, United Kingdom, (2)Center for Research in Language, University of California, San Diego, CA, (3)University of Birmingham, Birmingham, United Kingdom

10:00 35 130.035 Abnormal Neonatal Auditory Brainstem Response and 4-Month Arousal-Modulated Attention Are Jointly Associated with Autism Severity Scores in Childhood in NICU Graduates. I. L. Cohen<sup>1</sup>, J. M. Gardner<sup>2</sup>, B. Z. Karmel<sup>2</sup>, T. R. Gomez<sup>1</sup>, M. Gonzalez<sup>1</sup>, H. T. T. Phan<sup>2</sup>, P. M. Kitterl<sup>2</sup>, E. M. Lennon<sup>2</sup>, S. Parab<sup>3</sup> and A. Barone<sup>3</sup>, (1)Psychology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Infant Development, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Neonatology, Richmond University Medical Center, Staten Island, NY

11:00 36 130.036 Electrophysiological Markers of Social Perception in Infants At Risk for Autism. G. Righi<sup>1</sup>, C. E. Mukerji, M. Coffman, A. Naples, L. Mayes and J. McPartland, Yale Child Study Center, New Haven, CT

9:00 37 130.037 An Electrophysiological Study of Visual Function in Infants At Risk for An ASD. V. Vogel-Farley<sup>1</sup>, K. M. Concannon<sup>1,2</sup>, S. Spurling Jeste<sup>3</sup> and C. A. Nelson<sup>4</sup>, (1)Childrens Hospital Boston, Boston, MA, (2)Children's Hospital Boston, Brookline, MA, (3)UCLA, Los Angeles, CA, (4)Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA

10:00 38 130.038 Neurobehavioral Responses in Fetuses At Risk for Autism. S. J. Sheinkopf<sup>1</sup>, R. A. Barry<sup>2</sup> and A. Salisbury<sup>3</sup>, (1)101 Dudley Street, The Warren Alpert Medical School of Brown University, Providence, RI, (2)Brown Center for the Study of Children at Risk, Providence, RI, (3)The Warren Alpert Medical School of Brown University, Providence, RI

11:00 39 130.039 Neural Mirroring System In Young Children: An EEG Study. N. L. Dewaele<sup>1</sup>, L. Ruyschaert, P. Warreyn, J. R. Wiersma and H. Roeyers, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium

## Poster Sessions

### 130 - Electrophysiology: Early Signs

8:00 AM - 12:30 PM - Sheraton Hall

9:00 31 130.031 Do Children with ASD Show An Abnormal Neural Response to Faces At 12 Months of Age?. R. Luyster<sup>1</sup>, J. B. Wagner<sup>1</sup>, V. Vogel-Farley<sup>2</sup>, H. Tager-Flusberg<sup>3</sup> and C. A. Nelson<sup>1</sup>, (1)Laboratories of Cognitive Neuroscience, Harvard Medical School/Children's Hospital Boston, Boston, MA, (2)Labs of Cognitive Neuroscience, Children's Hospital, Boston, MA, (3)Department of Psychology, Boston University, Boston, MA

10:00 32 130.032 Event-Related Potentials to Known and Unknown Words in 18- and 24-Month-Olds At Risk for ASD. A. Seery<sup>1</sup>, M. Ayoub<sup>2</sup>, H. Tager-Flusberg<sup>1</sup> and C. A. Nelson<sup>3</sup>, (1)Department of Psychology, Boston University, Boston, MA, (2)Harvard University, Cambridge, MA, (3)Laboratories of Cognitive Neuroscience, Harvard Medical School/Children's Hospital Boston, Boston, MA

## Poster Sessions

### 131 - Treatment I: Social Skills, Schools, Stress

8:00 AM - 12:30 PM - Sheraton Hall

9:00 40 131.040 The Relations Among Language, Behavior, and Social Skills in Children with High Functioning ASD: Exploration to Inform Pivotal Interventions. K. Lierheimer<sup>1</sup>, N. A. Gage<sup>2</sup>, M. O. Mazurek<sup>3</sup> and S. M. Kanne<sup>4</sup>, (1)University of Missouri, Columbia, MO, (2)Special Education, University of Connecticut, Storrs, CT, (3)University of Missouri - Columbia, Columbia, MO, (4)Department of Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX



- 10:00 41 131.041 "Look Who's Talking!" Gaze Patterns in Implicit and Explicit Onset Asynchrony Detection. R. B. Grossman<sup>1,2</sup>, A. Schmid<sup>2</sup>, E. Steinhart<sup>2</sup> and T. Mitchell<sup>2</sup>, (1)Emerson College, Boston, MA, (2)Psychiatry, UMMS Shriver Center, Waltham, MA
- 11:00 ▶ 42 131.042 Measuring the Effects of Training Parents to Provide Intervention Via Telemedicine. D. Openden<sup>1</sup>, C. J. Smith<sup>2</sup> and A. Boglio<sup>3</sup>, (1)Southwest Autism Research & Resource Center, Phoenix, AZ, (2)Southwest Autism Research & Resource Center, Phoenix, AZ, (3)Southwest Autism Research & Resource Center, Phoenix, AZ
- 9:00 43 131.043 How Are Special Educators Using Social Stories™ in Rhode Island?. P. LaCava<sup>1</sup>, Rhode Island College, Providence, RI
- 10:00 44 131.044 Training High School Students to Provide Behavioral Instruction to Children with Autism. L. Belz<sup>1</sup>, B. Gorka and K. Kennedy, Autism Center, Children's Hospital of Michigan, Detroit, MI
- 11:00 45 131.045 A Comparison of Social Skills Intervention in Three Different Contexts. G. Mathai<sup>1</sup>, P. H. Hardesty<sup>2</sup>, N. J. Cunningham<sup>2</sup> and L. A. Ruble<sup>3</sup>, (1)University of Louisville, University of Louisville, Louisville, KY, (2)Educational and Counseling Psychology, University of Louisville, Louisville, KY, (3)University of Kentucky, Lexington, KY
- 9:00 46 131.046 Parent and Family Outcomes of PEERS Intervention. J. S. Karst<sup>1</sup>, B. Dolan<sup>2</sup>, A. Meyer<sup>3</sup>, K. Schohl<sup>2</sup>, S. Stevens<sup>2</sup>, S. Brockman<sup>2</sup>, N. Fritz<sup>2</sup>, C. Gasaway<sup>2</sup>, G. McDonald<sup>2</sup>, R. Remmel<sup>2</sup> and A. V. Van Hecke<sup>4</sup>, (1)Marquette University, Milwaukee, WI, (2)Marquette University, Milwaukee, WI, (3)Marquette University, Milwaukee, WI, (4)Psychology, Marquette University, Milwaukee, WI
- 10:00 47 131.047 Executive Functioning Training in ASD. M. de Vries<sup>1</sup>, P. Prins<sup>2</sup>, B. Schmand<sup>3,4</sup> and H. M. Geurts<sup>5</sup>, (1)Brain and Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Developmental psychology, University of Amsterdam, Amsterdam, Netherlands, (3)Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands, (4)Academic Medical Center Amsterdam, Amsterdam, Netherlands, (5)Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands
- 11:00 48 131.048 Longitudinal Data On Executive Function and Social Cognition by Children with Autism. E. Thommen<sup>1</sup>, B. Cartier-Nelles, A. Guidoux and S. Wiesendanger, EESP, University of Applied Sciences Western Switzerland, Lausanne, Switzerland
- 9:00 49 131.049 Increasing Social Interactions Using Typical Peer Training. A. C. Azarbeh<sup>1</sup> and W. Reeve<sup>2</sup>, (1)Psychology, Tyndale University, Toronto, ON, Canada, (2)Tyndale University, Toronto, ON, Canada
- 10:00 50 131.050 A Mixed Methods Analysis of a Social Group Intervention for Adolescents with Social Disabilities and Their Typically Developing Peers. K. Bottema<sup>1</sup>, Special Education, San Francisco State University, San Francisco, CA; UC Berkeley, Berkeley, CA
- 11:00 51 131.051 Mindfulness in Mind-Blindness: What Are the Effects of Mindfulness Training in Teenagers with ASD?. E. I. de Bruin<sup>1</sup> and S. M. Bogels<sup>2</sup>, (1)Dept of Child Development and Education, University of Amsterdam, Amsterdam, Netherlands, (2)Dept. of Child Development and Education, University of Amsterdam, Amsterdam, Netherlands
- 9:00 52 131.052 Pivotal Response Treatment (PRT) Is Ideal for Summer Camp, and Summer Camp Is Ideal for PRT. R. E. Daniels and M. Y. Boyars<sup>1</sup>, Chicago Children's Clinic, Chicago, IL
- 10:00 53 131.053 Development of a School-based Social Skills Program: The Role of Qualitative Data in Participatory Action Research. K. F. Ostmeyer-Kountzman<sup>1</sup> and A. Scarpa<sup>2</sup>, (1)Psychology, Virginia Tech, Blacksburg, VA, (2)Department of Psychology, Virginia Tech, Blacksburg, VA
- 11:00 54 131.054 The Outcomes of a Psychosexual Training Program for Adolescents with ASD. E. van der Vegt<sup>1</sup>, L. P. Dekker<sup>2,3</sup>, N. Tick<sup>3</sup>, K. Visser<sup>3</sup>, F. Boudesteijn<sup>1</sup>, F. C. Verhulst<sup>2</sup>, A. Maras<sup>3</sup> and K. Greaves-Lord<sup>2,3</sup>, (1)Yulius, Barendrecht, Netherlands, (2)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC – Sophia's Children's Hospital, Rotterdam, Netherlands, (3)Academie, Yulius, Rotterdam, Netherlands
- 9:00 55 131.055 Computer-based Interventions to Improve Social and Emotional Skills in Individuals with Autism Spectrum Disorders: A Systematic Review. S. Ramdoss<sup>1</sup>, W. Machalicek<sup>2</sup>, M. Rispoli<sup>3</sup>, A. M. Mulloy<sup>4</sup>, R. Lang<sup>5</sup> and M. F. O'Reilly<sup>6</sup>, (1)The University of Texas at Austin, Austin, TX, (2)Special Education, University of Oregon, Eugene, OR, (3)Dept of Educational Psychology, Texas A&M Univ, College Station, TX, (4)Dept of Special Education and Disability Policy, Virginia Commonwealth Univ, Richmond, VA, (5)Dept of Curriculum and Instruction and Applied Behavior Analysis Program, Texas State University, San Marcos, TX, (6)Special Education, The University of Texas at Austin, Austin, TX
- 10:00 56 131.056 Development of a Novel Social Skills Training Curriculum. R. Shaffer<sup>1</sup>, L. Wink<sup>2</sup>, N. Minshawi<sup>2</sup> and C. Erickson<sup>2</sup>, (1)Indiana School of Medicine, Indianapolis, IN, (2)Indiana University School of Medicine, Indianapolis, IN
- 11:00 57 131.057 Direct and Indirect Changes in Children with Autism Spectrum Disorders and Their Parents After a Social Skills Intervention. M. A. Vecili<sup>1</sup>, S. Robinson<sup>2</sup>, J. A. Weiss<sup>1</sup>, Y. Lunsky<sup>3</sup> and L. Sloman<sup>3</sup>, (1)Department of Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada, (3)Centre for Addiction and Mental Health, Toronto, ON, Canada
- 9:00 58 131.058 Emotional Intelligence As a Moderator of Distress in Parents of Children with Autism Spectrum Disorder (ASD). E. Cooper<sup>1</sup> and A. Perry, Department of Psychology, York University, Toronto, ON, Canada
- 10:00 59 131.059 Predictors of Outcome in a Community-based Parent Training Program. S. Godleski<sup>1</sup> and A. L. Valentino<sup>2</sup>, (1) Marcus Autism Center, Children's Healthcare of Atlanta, and University at Buffalo, SUNY, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA

- 11:00 60 131.060 Effect of a Short-Term Treatment Program for Anxiety in Children Diagnosed with Autism Spectrum Disorders. W. Noda<sup>1</sup>, T. Hagiwara<sup>2</sup>, N. Mochizuki<sup>1</sup>, M. Iwasaki<sup>3</sup> and M. Tsujii<sup>4</sup>, (1)Osaka-Hamamatsu Joint Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Hokkaido University of Education, Asahikawa-shi, Japan, (3)Asperger Society Japan, Nagoya-shi, Japan, (4)Department of Contemporary Sociology, Chukyo University, Nagoya, Japan
- 9:00 61 131.061 Teachers' Implementation of ASD Evidence-based Practices in General Education Classrooms. M. I. Thomson<sup>1</sup>, Autism Teaching Institute, Victoria, Australia
- 10:00 62 131.062 SENSE Theatre - Bridging Art and Science to Improve Social Interaction in Autism. B. A. Corbett<sup>1</sup>, C. Coke<sup>2</sup>, C. R. Newsom<sup>3</sup>, E. Bingham<sup>4</sup>, T. Strop<sup>1</sup>, D. Swain<sup>5</sup>, C. Taylor<sup>5</sup>, L. Wang<sup>6</sup> and Y. Song<sup>6</sup>, (1)Psychiatry, Vanderbilt University, Nashville, TN, (2)University School of Nashville, Nashville, TN, (3)Pediatrics, Vanderbilt University, Nashville, TN, (4)Blair School of Music, Vanderbilt University, Nashville, TN, (5)Vanderbilt University, Nashville, TN, (6)Biostatistics, Vanderbilt University, Nashville, TN
- 11:00 63 131.063 Phase IV-Community Effectiveness Trial of a Psychosocial Treatment for Children with HFASDs. C. Lopata<sup>1</sup>, J. A. Toomey<sup>2</sup>, M. L. Thomeer<sup>1</sup>, J. D. Fox<sup>3</sup>, D. Meichenbaum<sup>2</sup>, M. A. Volker<sup>4</sup> and G. K. Lee<sup>4</sup>, (1)Institute for Autism Research, Canisius College, Buffalo, NY, (2)Summit Educational Resources, Getzville, NY, (3)Autistic Services Inc, Williamsville, NY, (4)Counseling, School and Educational Psychology, University at Buffalo, SUNY, Buffalo, NY
- 9:00 64 131.064 Can the PEGASUS Psychoeducational Programme Improve the Understanding, Well-Being and Functioning of Young People with ASD Diagnoses and That of Their Families? A Randomised Controlled Trial. R. K. Gordon<sup>1</sup>, V. Livermore-Hardy<sup>2</sup>, O. Baykaner<sup>3</sup>, C. Willis<sup>4</sup>, L. Roughan<sup>2</sup>, M. Murin<sup>5</sup> and W. P. Mandy<sup>6</sup>, (1)Social Communication Disorders Clinic, Great Ormond Street Hospital, London, United Kingdom, (2)Great Ormond Street Hospital, London, United Kingdom, (3)UCL, London, United Kingdom, (4)Department of Child and Adolescent Mental Health, Great Ormond Street Hospital for Children, London, United Kingdom, (5)Social Communication Disorders Clinic, Great Ormond Street Hospital for Children, London, United Kingdom, (6)University College London, London, United Kingdom
- 10:00 65 131.065 PEERS Treatment Leads to Increased Neural Activity in Adolescents with ASD. A. V. Van Hecke<sup>1</sup>, A. Meyer<sup>2</sup>, S. Stevens<sup>3</sup>, B. Dolan<sup>3</sup>, J. S. Karst<sup>2</sup>, K. Schohl<sup>3</sup>, S. Brockman<sup>3</sup>, R. Rempel<sup>3</sup>, N. Fritz<sup>3</sup>, C. Gasaway<sup>3</sup> and G. McDonald<sup>3</sup>, (1)Psychology, Marquette University, Milwaukee, WI, (2)Marquette University, Milwaukee, WI, (3)Marquette University, Milwaukee, WI
- 11:00 66 131.066 Replicating the PEERS Program in a Public School Classroom. L. Hall<sup>1</sup> and B. Kraemer<sup>2</sup>, (1)San Diego State University, San Diego, CA, (2)SDSU, San Diego, CA
- 9:00 67 131.067 SOSTA-Net: A Large-Scale, Multi-Center, Randomised Controlled Trial of the Autism Specific Social Skills Training SOSTA-FRA. C. M. Freitag<sup>1</sup>, H. Musch<sup>1</sup>, L. Elsuni<sup>1</sup> and M. Kieser<sup>2</sup>, (1)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, JW Goethe University Frankfurt am Main, Frankfurt am Main, Germany, (2)Department of Medical Biometry, Ruprecht-Karls University Heidelberg, Heidelberg, Germany
- 10:00 68 131.068 Benefits of a Social Skills Intervention in Residential Treatment Settings for Adolescents with Autism Spectrum Disorders: The UCLA PEERS Program. A. J. Vreeland<sup>1</sup>, E. Laugeson<sup>2</sup>, J. Romeyn<sup>3</sup>, L. Tucci<sup>4</sup> and R. W. Ellingsen<sup>5</sup>, (1)UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (3)The Help Group, Sherman Oaks, CA, (4)UCLA Autism Research Alliance, The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (5)Clinical Psychology, UCLA, Los Angeles, CA
- 11:00 69 131.069 Examining the Effectiveness of Mindfulness for Treating Children with ASD and ADHD. B. Evans-Smith<sup>1</sup>, N. M. Russo<sup>1</sup> and J. Johnson<sup>2</sup>, (1)Pediatrics; Behavioral Sciences; Rush NeuroBehavioral Center, Rush University Medical Center, Skokie, IL, (2)Behavioral Sciences; Rush NeuroBehavioral Center, Rush University Medical Center, Skokie, IL
- 9:00 70 131.070 Self-Isolation or Self Preservation: Why Are Teens with Autism Often Alone?. S. Mahjouri<sup>1</sup>, C. Kasari<sup>2</sup> and F. Orlich<sup>3</sup>, (1)Institute of Brain Development, Weill Cornell Medical College, New York, NY, (2)University of California, Los Angeles, CA, (3)Psychiatry, University of Washington/Seattle Children's Hospital, Seattle, WA
- 10:00 71 131.071 Tracking Changes in Social Skills: Weekly Behavioral Coding During a Social Skills Intervention Group. C. Hileman<sup>1</sup> and M. Solomon, MIND Institute, UC Davis, Sacramento, CA
- 11:00 72 131.072 Teaching Personal Narrative Skills to Enhance Social Conversation in Children with Autism Spectrum Disorders. M. N. Park<sup>1</sup>, R. L. Koegel<sup>2</sup> and L. K. Koegel<sup>3</sup>, (1)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)Department of Counseling, Clinical, & School Psychology, University of California Santa Barbara, Santa Barbara, CA, (3)Koegel Autism Center, University of California, Santa Barbara, CA
- 9:00 73 131.073 Promoting Social Competence in Adolescent Girls with ASD: Evaluation of An Intervention Program. R. Jamison<sup>1</sup> and D. Kamps<sup>2</sup>, (1)Center for Child Health and Development, University of Kansas Medical Center, Kansas City, KS, (2)Juniper Gardens Children's Project, University of Kansas, Kansas City, KS

- 10:00 74 131.074 Predicting Treatment Outcomes of a Teacher-Facilitated Social Skills Intervention for Adolescents with Autism: The School-Based UCLA PEERS Program. M. Goodarzi<sup>1</sup>, Y. Bolourian<sup>2</sup>, L. Henry<sup>1</sup>, R. W. Ellingsen<sup>3</sup>, L. Tucci<sup>4</sup>, S. Bates<sup>5</sup> and E. Laugeson<sup>6</sup>, (1)UCLA, Los Angeles, CA, (2)UCLA, Los Angeles, CA, (3)Clinical Psychology, UCLA, Los Angeles, CA, (4)UCLA Autism Research Alliance, The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (5)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (6)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 11:00 75 131.075 DOES Naturalistic One-to-One Training without Focused Peer Intervention Have Collateral Effects On Play and Peer Engagement?. K. Strauss<sup>1</sup>, L. Fava<sup>2</sup>, G. Valeri<sup>3</sup>, S. Arima<sup>4</sup>, L. D'Elia<sup>5</sup> and S. Vicari<sup>6</sup>, (1)Autism Treatment and Research Center "Una breccia nel muro", Rome, Italy, (2)Autism Treatment and Research Center "Una breccia nel muro", Rome, Italy, (3)Neuroscience Department, Children's Hospital Bambino Gesù, Rome, Italy, (4)Department of Methods and Model for Economy Territory and Finance, University of Rome "La Sapienza", Rome, Italy, (5)Neuroscience Department, Children's Hospital Bambino Gesù, Rome, Italy, (6)U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù, Rome, Italy
- 9:00 76 131.076 Parental Stress and Treatment Priorities In the Process of Parent-Mediated EIBI Intervention. L. Fava<sup>1</sup>, K. Strauss<sup>2</sup>, S. Arima<sup>3</sup>, G. Valeri<sup>4</sup>, L. D'Elia<sup>5</sup> and S. Vicari<sup>6</sup>, (1)Autism Treatment and Research Center "Una breccia nel muro", Rome, Italy, (2)Autism treatment and research Center "Una breccia nel muro", Rome, Italy, (3)Department of Methods and Model for Economy Territory and Finance, University of Rome "La Sapienza", Rome, Italy, (4)Neuroscience, Children's Hospital Bambino Gesù, Roma, Italy, (5)Neuroscience Department, Children's Hospital Bambino Gesù, Rome, Italy
- 10:00 77 131.077 Is CBT As Effective for Treating Anxiety Disorders in Children and Adolescents with ASD As for Typically Developing Children, Also in the Long Term? Preliminary Results of a Controlled Clinical Trial. F. J. van Steensel<sup>1</sup> and S. M. Bögels<sup>2</sup>, (1)Child Development and Education, University of Amsterdam, Amsterdam, Netherlands, (2)University of Amsterdam, Amsterdam, Netherlands
- 11:00 78 131.078 The Impact of Teachers' Attitudes Towards Evidence-based Practices on Student Autism Symptom Severity. C. S. Ghilain<sup>1</sup>, D. C. Coman, A. Gutierrez and M. Alessandri, Psychology, University of Miami, Coral Gables, FL
- 9:00 79 131.079 Examining the Maintenance of Effects of a Social Competence Intervention (SCI-A). J. P. Stichter<sup>1,2</sup>, M. Herzog<sup>3</sup>, S. D. McGhee<sup>3</sup> and S. Leinert<sup>3</sup>, (1)University of Missouri, Columbia, MO, (2)University of Missouri, Columbia, MO, (3)University of Missouri, Columbia, MO
- 10:00 80 131.080 Commitment to Classroom Model Philosophy, Openness, and Teacher Burnout: A Preliminary Investigation of Their Relationships. A. Gutierrez<sup>1,2</sup>, D. C. Coman<sup>1</sup>, C. S. Ghilain<sup>1</sup> and M. Alessandri<sup>1</sup>, (1)Psychology, University of Miami, Coral Gables, FL, (2)Psychology, Florida International University, Miami, FL
- 11:00 81 131.081 Addressing Engagement and Challenging Behaviors within a Naturalistic Language Intervention: A Cross-Disciplinary Collaboration. G. L. Lyons<sup>1</sup>, E. Haebig<sup>1</sup>, A. McDuffie<sup>2</sup>, W. Machalicek<sup>3</sup>, A. Oakes<sup>4</sup>, L. Abbeduto<sup>2</sup> and S. Ellis Weismer<sup>1</sup>, (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)Psychiatry, M.I.N.D. Institute University of California Davis, Sacramento, CA, (3)Special Education, University of Oregon, Eugene, OR, (4)M.I.N.D. Institute, University of California, Davis, Sacramento, CA
- 9:00 82 131.082 Functional Behavior Assessments: A Comparison of Across Three Assessment Methodologies. S. B. Clark<sup>1</sup>, N. A. Call<sup>2</sup>, N. A. Parks<sup>1</sup> and A. R. Reavis<sup>1</sup>, (1)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA
- 10:00 83 131.083 Increasing Positive Affect and Social Responsiveness in Children and Adolescents with Autism Spectrum Disorders: The Adaptation of a Music-Based Intervention in a School Setting. D. Tung<sup>1</sup>, R. W. Ellingsen<sup>2</sup>, L. Tucci<sup>3</sup> and E. Laugeson<sup>4</sup>, (1)UCLA, Los Angeles, CA, (2)Clinical Psychology, UCLA, Los Angeles, CA, (3)UCLA Autism Research Alliance, The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 11:00 84 131.084 A Behavioral Summer Treatment Program Improves Social Functioning for Children with High-Functioning Autism Spectrum Disorder. E. S. Mitchell<sup>1</sup>, M. K. McCalla, S. Mrug, C. S. Patterson and J. B. Hodgins, University of Alabama at Birmingham, Birmingham, AL
- 9:00 85 131.085 SPARK: Improving Self-Regulation, Executive Functions, and Social Competence in Children with Autism. J. Montgomery<sup>1</sup> and H. MacKenzie<sup>2</sup>, (1)University of Manitoba, University of Manitoba, Winnipeg, MB, Canada, (2)Wired Fox Publications, St. Catharines, ON, Canada
- 10:00 86 131.086 Increasing Self-Confidence and Decreasing Stress in Parents and Professionals: The Effects of One-Day Pivotal Response Treatment Training. J. Choi<sup>1</sup>, N. M. Reyes<sup>1</sup>, A. Scarpa<sup>2</sup> and D. Openden<sup>3</sup>, (1)Psychology, Virginia Tech, Blacksburg, VA, (2)Department of Psychology, Virginia Tech, Blacksburg, VA, (3)Southwest Autism Research and Resource Center, Phoenix, AZ
- 11:00 87 131.087 Effects of Video-Based Group Instruction on the Acquisition of Complex Social Skills by Adolescents with Autism. J. B. Plavnick<sup>1</sup>, A. M. Sam<sup>2</sup>, K. Hume<sup>3</sup> and S. L. Odom<sup>4</sup>, (1)Counseling, Educational Psychology, and Special Education, Michigan State University, East Lansing, MI, (2)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, Carrboro, NC, (3)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, NC, (4)University of North Carolina, Chapel Hill, NC



- 9:00 88 131.088 Language and Academic Deficits Among Children with Autism Spectrum Disorders Attending Regular School Classes After Intensive Long-Term Treatment. S. Kotsopoulos<sup>1</sup>, A. Kotsopoulos<sup>2</sup>, I. Florou<sup>1</sup>, M. Gyftogianni<sup>3</sup>, A. Gasteratos<sup>4</sup> and A. Georgiou<sup>1</sup>, (1)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, (2)Speech Therapy, TEI Patras, Patras, Greece, (3)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, Messolonghi, Greece, (4)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, Messolonghi, Greece
- 10:00 89 131.089 Improved Social Motivation in Adolescents with ASD Following a Social Skills Intervention. M. Murray<sup>1</sup>, A. Pearl<sup>1</sup>, J. A. Hillwig-Garcia<sup>1</sup> and L. A. Smith<sup>2</sup>, (1)Department of Psychiatry, Penn State Hershey, Hershey, PA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA
- 11:00 90 131.090 ABA Therapy in the ASD Population: Predictors of Long Term Social Functioning and Gender Differences. A. N. Tagliarina<sup>1</sup>, A. T. Dovi, N. Raff, C. M. Brewton and G. T. Schanding, School Psychology, University of Houston, Houston, TX
- 9:00 91 131.091 Teaching a Child with Autism to Mand for Information Using "How". M. A. Shillingsburg<sup>1</sup>, C. N. Bowen<sup>2</sup> and A. L. Valentino<sup>1</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA
- 10:00 92 131.092 Comparing Echoic Prompts and Echoic Prompts Plus Modeled Prompts on Teaching Beginning Conversational Language. A. L. Valentino<sup>1</sup>, M. A. Shillingsburg<sup>1</sup> and N. A. Call<sup>2</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA
- 11:00 93 131.093 Teaching Children with Autism to Seek Information by Asking Questions. C. N. Bowen<sup>1</sup>, M. A. Shillingsburg<sup>2</sup> and A. L. Valentino<sup>2</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA
- 9:00 94 131.094 A Pilot Evaluation of Unstuck and On Target: An Executive Functioning Intervention for Children with ASD. L. G. Anthony<sup>1</sup>, L. Cannon<sup>2</sup>, K. Alexander<sup>2</sup>, M. A. Werner<sup>2</sup>, M. C. Wills<sup>1</sup>, J. L. Sokoloff<sup>1</sup>, K. K. Powell<sup>1</sup>, A. C. Sharber<sup>1</sup>, J. Strang<sup>1</sup>, M. A. Rosenthal<sup>1</sup>, E. Bal<sup>1</sup>, C. Luong-Tran<sup>1</sup>, E. Fallucca<sup>1</sup>, A. Youmatz<sup>3</sup> and L. Kenworthy<sup>1</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Ivymount School, Rockville, MD, (3)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD
- 10:00 95 131.095 Music Therapy As An Effective Complementary and Alternative Medicine Therapy in Children and Adolescents with Autism or Related Diagnosis. L. Henry<sup>1</sup>, R. Tachdjian<sup>2</sup> and T. Babikian<sup>3</sup>, (1)Pepperdine University, Santa Monica, CA, (2)Allergy and Immunology, UCLA, Santa Monica, CA, (3)Psychiatry and Behavioral Sciences, UCLA, Los Angeles, CA

- 11:00 96 131.096 Emotion Based Social Skills Training for Children with Autism Spectrum Disorders. M. G. Wong, Westmead, NSW, Australia
- 9:00 97 131.097 Peer-Mediated Social Skills Instruction for Students with ASD in the General Education Classroom. N. Brigham<sup>1</sup>, R. Bernstein<sup>2</sup>, L. Kaplan<sup>2</sup>, J. C. Cosgriff<sup>2</sup>, C. Reilly<sup>2</sup>, M. Boykin<sup>2</sup> and C. Hughes<sup>2</sup>, (1)Pediatrics, Vanderbilt University Medical Center, Nashville, TN, (2)Special Education, Vanderbilt University, Nashville, TN

Poster Sessions  
132 - Treatment II: Early Intervention

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 98 132.098 First Impressions: Facial Expressions and Prosody Signal ASD Status to Naive Observers. A. Schmid<sup>1</sup>, N. Pitre<sup>2</sup>, K. Hasty<sup>1</sup> and R. B. Grossman<sup>1,2</sup>, (1)Psychiatry, UMMS Shriver Center, Waltham, MA, (2)Emerson College, Boston, MA
- 10:00 99 132.099 Improving Social Conversation in Children with Autism Spectrum Disorders Through Teaching Multiple Questions. A. M. Krasno<sup>1</sup>, R. A. Doggett<sup>2</sup>, R. L. Koegel<sup>3</sup> and L. K. Koegel<sup>4</sup>, (1)Counseling, Clinical, and School Psychology, University of California, Santa Barbara, CA, (2)Counseling, Clinical and School Psychology, University of California, Santa Barbara, CA, (3)Department of Counseling, Clinical, & School Psychology, University of California Santa Barbara, Santa Barbara, CA, (4)Koegel Autism Center, University of California, Santa Barbara, CA
- 11:00 100 132.100 A Developmental Framework for Promoting Joint Attention in Toddlers with ASD: Formative Analysis of An Intervention. H. H. Schertz<sup>1</sup>, S. L. Odom<sup>2</sup> and K. M. Baggett<sup>3</sup>, (1)Indiana University, Bloomington, IN, (2)University of North Carolina, Chapel Hill, NC, (3)University of Kansas, Kansas City, KS
- 9:00 101 132.101 Caregiver Instruction and iPad's: Implementation of Video Modeling Imitation Training. T. Cardon<sup>1</sup>, Spokane, WA
- 10:00 102 132.102 Teacher-Implemented Joint Attention Intervention: Pilot Randomized Controlled Study for Preschoolers with Autism. K. Lawton<sup>1</sup> and C. Kasari<sup>2</sup>, (1)Nisonger Center, Special Education, The Ohio State University, Columbus, OH, (2)University of California, Los Angeles, CA
- 11:00 103 132.103 Effects of Early Treatment in Autism After the First Diagnosis: An Observational Italian Study. A. Narzisi<sup>1</sup> and F. Muratori, University of Pisa - Stella Maris Scientific Institute, Calambrone (Pisa), Italy
- 9:00 104 132.104 Engaging Toddlers with Autism: Effective Caregiver Strategies. A. Fuller<sup>1</sup>, C. Ross, A. Gulsrud, K. Lawton and C. Kasari, UCLA, Los Angeles, CA

- 10:00 105 132.105 Intervention On Social Abilities In Autism: An Evaluation On Outcome. E. Rossini-Dreccq<sup>1</sup>, C. Cattelan<sup>1</sup>, A. Di Fulvio<sup>2</sup>, N. Hadjikhani<sup>3</sup>, O. Rogier<sup>4</sup>, N. Rudelli<sup>5</sup>, E. Thommen<sup>6</sup> and K. Werner<sup>7</sup>, (1)SUPSI, Manno, Switzerland, (2)EESP, University of Applied Sciences Western Switzerland, Lausanne, Switzerland, (3)Harvard Medical School, Boston, MA, (4)EPFL, Lausanne, Switzerland, (5)Fondazione Ares, Giubiasco, Switzerland, (6)EESP, University of Applied Sciences Western Switzerland, Lausanne, Switzerland, (7)Il Trampolino, Centro per l'Infanzia, Giubiasco, Switzerland
- 11:00 106 132.106 A Pilot Study of the Effects of An Australian Centre-based Early Intervention for Children with Autism. J. M. Paynter<sup>1,2</sup>, J. Scott<sup>3,4,5</sup>, W. Beamish<sup>6</sup>, M. Duhig<sup>7</sup> and H. Heussler<sup>2,3,8</sup>, (1)AEIOU Foundation, Nathan, Australia, (2)Mater Medical Research Institute, Brisbane, Australia, (3)The University of Queensland, Brisbane, Australia, (4)Royal Brisbane and Women's Hospital, Brisbane, Australia, (5)Queensland Centre for Mental Health Research, Wacol, Australia, (6)Griffith University, Nathan, Australia, (7)Queensland Children's Hospital, Brisbane, Australia, (8)Mater Children's Hospital, Brisbane, Australia
- 9:00 107 132.107 Joint Attention Intervention for Young Children with Autism and Their Parents: A Case-Control Study. C. H. Chiang<sup>1</sup>, C. L. Chu<sup>2</sup> and T. C. Lee<sup>3</sup>, (1)National Chengchi University, Taipei, Taiwan, (2)Psychology, National Chung Cheng University, Chiayi, Taiwan, (3)Education, National Chengchi University, Taipei, Taiwan
- 10:00 ▶ 108 132.108 A Randomized Controlled Trial of a Group Parent-Training Program in a Joint Attention Intervention. K. Houghton<sup>1</sup> and C. Lewis<sup>2</sup>, (1)Lancaster University, Chatham, NY, (2)Psychology, Lancaster University, Lancaster, United Kingdom
- 11:00 ▶ 109 132.109 Effects of Parent-Mediated Early Intervention on Child Behavioral Outcomes in An Underserved Population. A. K. Dent<sup>1</sup>, T. Carr<sup>2</sup>, S. Leitman<sup>3</sup> and C. E. Lord<sup>4</sup>, (1)Center for Human Growth and Development, Univeristy of Michigan, Ann Arbor, MI, (2)Center for Human Growth and Development, University of Michigan, Ann Arbor, MI, (3)Institute of Brain Development – Bard House, Weill Cornell Medical College/NY Presbyterian Hospital, White Plains, NY, (4)Weill Cornell Medical College, White Plains, NY
- 9:00 110 132.110 Use of Multi-Modal Feedback to Facilitate Word and Syllable Combinations. L. DeThorne<sup>1</sup>, K. Karahalios<sup>2</sup>, J. Halle<sup>3</sup>, K. Lyons<sup>1</sup> and M. Aparicio Betancourt<sup>4</sup>, (1)Speech & Hearing Science, University of Illinois, Champaign, IL, (2)University of Illinois at Urbana-Champaign, Urbana, IL, (3)Special Education, University of Illinois, Champaign, IL, (4)Neuroscience Program, University of Illinois, Champaign, IL
- 10:00 111 132.111 The Effectiveness of Speech Generating Devices for Children with ASD. D. Trembath<sup>1</sup>, C. Dissanayake<sup>2</sup> and T. Iacono<sup>3</sup>, (1)Olga Tennison Autism Research Centre, La Trobe University, Victoria, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Faculty of Health Sciences, La Trobe University, Bendigo, Australia
- 11:00 112 132.112 The Effect of Brief Intervention on Spontaneous Turn-Taking in Pivotal Response Teaching for Children with Autism Spectrum Disorder. A. Kondo<sup>1</sup> and J. Yamamoto, Department of Psychology, Keio University, Tokyo, Japan
- 9:00 ▶ 113 132.113 Piloting the Early Start Denver Model in South Africa. M. Hoogenhout<sup>1</sup>, S. Malcolm-Smith<sup>1</sup>, N. Seris<sup>2</sup> and K. Thomas<sup>1</sup>, (1)Department of Psychology, University of Cape Town, Cape Town, South Africa, (2)Child Guidance Clinic, University of Cape Town, Cape Town, South Africa
- 10:00 114 132.114 Transitioning From Development to Efficacy Trial: Challenges Faced by An Autism Intervention Study. K. P. Wilson<sup>1</sup>, J. R. Dykstra<sup>1</sup>, K. M. Belardi<sup>1</sup>, L. R. Watson<sup>1</sup>, B. Boyd<sup>2</sup>, G. T. Baranek<sup>2</sup> and E. Crais<sup>1</sup>, (1)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (2)Occupational Science, University of North Carolina, Chapel Hill, NC
- 11:00 115 132.115 The Efficacy of An Intervention for Sensory-Related Behaviors in Children with Autism. R. Schaaf<sup>1</sup>, T. W. Benevides<sup>2</sup>, D. Kelly<sup>3</sup>, J. Hunt<sup>4</sup>, E. VanHooydonk<sup>5</sup>, P. Faller<sup>6</sup>, R. Freeman<sup>3</sup> and Z. Mailloux<sup>5</sup>, (1)Thomas Jefferson University, Philadelphia, PA, (2)Thomas Jefferson University, Philadelphia, PA, (3)Children's Specialized Hospital, New Brunswick, NJ, (4)Occupational Therapy, Children's Specialized Hospital, New Brunswick, NJ, (5)Pediatric Therapy Network, Torrance, CA
- 9:00 116 132.116 The Ottawa Act Early Autism Project: Does One Hour of Parent Coaching Make Changes?. Y. Korneluk<sup>1</sup>, R. Gaines<sup>2,3</sup>, L. A. Vismara<sup>4</sup>, D. Quigley<sup>5</sup> and C. Desrochers<sup>6</sup>, (1)Emerging Minds Treatment Centre, Ottawa, ON, Canada, (2)Speech and Language Services, Children's Hospital of Eastern Ontario, Ottawa, ON, Canada, (3)University of Ottawa, Ottawa, ON, Canada, (4)University of California at Davis MIND Institute, Sacramento, CA, (5)Psychology, Carleton University, Ottawa, ON, Canada, (6)Pinecrest Queensway Community Health Centre, Ottawa, ON, Canada
- 10:00 117 132.117 The Influence of Maternal Speech on the Expressive Language Production of Young Children with ASD. K. M. Walton<sup>1</sup>, I. Sherwood<sup>2</sup> and B. Ingersoll<sup>1</sup>, (1)Psychology, Michigan State University, East Lansing, MI, (2)Psychology, University of Alabama, Tuscaloosa, AL
- 11:00 118 132.118 Parent-Child Interactions During a Teaching Task in Children with ASD. C. Rubery<sup>1</sup>, E. J. H. Jones<sup>1</sup>, D. Kamara<sup>1</sup>, S. Corrigan<sup>1</sup>, K. Toth<sup>1,2</sup> and S. J. Webb<sup>1,2</sup>, (1)Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA
- 9:00 119 132.119 Improving Play Skills in Nonverbal Elementary-Age Children with Autism. Y. C. Chang<sup>1</sup>, K. Goods<sup>2</sup>, C. McCracken<sup>3</sup> and C. Kasari<sup>4</sup>, (1)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)Division of Psychological Studies in Education, University of California, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)University of California, Los Angeles, CA

- 10:00 ▶ 120 132.120 Autistic Spectrum Disorder (ASD) Among Omani Children Below 6 Years: A Five-Year Retrospective Descriptive Study. M. Al-Sharbat<sup>1</sup>, Y. M. Al-Farsi<sup>2</sup>, Z. M. Al-Sharbat<sup>3</sup>, A. Ouhiti<sup>4</sup>, M. I. Waly<sup>2</sup>, M. M. Al-Khaduri<sup>2</sup>, M. Al-Shafee<sup>4</sup>, F. Al-Sulaimani<sup>5</sup> and S. Al-Adawi<sup>6</sup>, (1)Behavioral Medicine, Sultan Qaboos University, Muscat, Oman, (2)Sultan Qaboos University, Muscat, Oman, (3)Behavioral Medicine, Sultan Qaboos University Hospital, Muscat, Oman, (4)Family Medicine, Sultan Qaboos University, Muscat, Oman, (5)MOH, Muscat, Oman, (6)Behavioral Medicine, Sultan Qaboos University, Muscat, Oman
- 11:00 121 132.121 Teaching Storytelling and Story Recall to Children with Autism Using Textual Prompts. D. E. Conine<sup>1</sup>, A. L. Valentino<sup>2</sup>, J. Holcombe<sup>3</sup> and A. Rogers<sup>4</sup>, (1)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA, (3)Marcus Autism Center and Children's Healthcare of Atlanta, Atlanta, GA, (4)Marcus Autism Center and Children's Healthcare of Atlanta, Atlanta, GA
- 9:00 122 132.122 Effectiveness of a Wide-Scale Community-based Intervention for Preschoolers with Autism. E. Boudreau<sup>1</sup>, B. D'Entremont<sup>2</sup> and M. Fulton<sup>3</sup>, (1)Psychology Department, University of New Brunswick, Fredericton, NB, Canada, (2)Psychology Department, University of New Brunswick, Fredericton, NB, Canada, (3)Psychology Department, The University of New Brunswick, Fredericton, NB, Canada
- 10:00 123 132.123 Effectiveness of the Early Support Program for 2-Year-Old Children with Autism Spectrum Disorders. N. Inada<sup>1</sup>, M. Kuroda<sup>2</sup> and Y. Kamio<sup>1</sup>, (1)National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan, (2)Department of Psychology, Shukutoku University, Chiba, Japan
- 11:00 124 132.124 Parents' Voices: 3-Month Follow-up After 12-Week Unity Parent ABA Training Program. M. N. Gragg<sup>1</sup>, C. Pasiak<sup>2</sup>, B. E. Drouillard<sup>2</sup>, J. L. Scammell<sup>2</sup>, H. E. Jones<sup>3</sup>, H. E. Hebert<sup>2</sup> and D. D. Barrie<sup>1</sup>, (1)Psychology, University of Windsor, Windsor, ON, Canada, (2)Psychology, University of Windsor, Windsor, ON, Canada, (3)The Summit Centre for Preschool Children with Autism, Windsor, ON, Canada
- 9:00 125 132.125 Congruence Among Parent and Teacher Ratings and Observational Assessments of Social Communication and Play In Preschoolers with ASD. L. R. Watson<sup>1</sup>, B. Boyd<sup>2</sup>, G. T. Baranek<sup>2</sup>, E. Crais<sup>1</sup>, J. R. Dykstra<sup>1</sup> and K. P. Wilson<sup>1</sup>, (1)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (2)Occupational Science, University of North Carolina, Chapel Hill, NC
- 10:00 126 132.126 Efficacy of Therapist-Implemented Social Communication Intervention for Young Children with ASD. Psychology, Michigan State University, East Lansing, MI
- 11:00 127 132.127 Predictors of Differential Responsivity to Pivotal Response Training and Discrete Trial Training. A. B. Jobin<sup>1</sup>, L. Schreibman<sup>1</sup> and A. C. Stahmer<sup>1,2</sup>, (1)University of California, San Diego, La Jolla, CA, (2)Rady Children's Hospital, San Diego, CA
- 9:00 128 132.128 Group Delivery of the Early Start Denver Model: Treatment Outcomes. C. Dissanayake<sup>1</sup>, C. D. Zierhut<sup>2</sup> and G. Vivanti<sup>3</sup>, (1)La Trobe University, Olga Tennison Autism Research Centre, Bundoora 3086, Australia, (2)Margot Prior Wing of the La Trobe University Community Childrens Centre, Autism Specific Early Learning and Care Centre at La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia
- 10:00 129 132.129 Social and Non-Social Abilities Are Differentially Associated to Treatment Gains in Different Domains. G. Vivanti<sup>1</sup>, D. Trembath<sup>2</sup>, C. D. Zierhut<sup>3</sup> and C. Dissanayake<sup>4</sup>, (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Victoria, Australia, (3)Margot Prior Wing of the La Trobe University Community Childrens Centre, Autism Specific Early Learning and Care Centre at La Trobe University, Melbourne, Australia, (4)La Trobe University, Olga Tennison Autism Research Centre, Bundoora, Australia
- 11:00 130 132.130 A Telehealth Approach to Working with Families with ASD. L. A. Vismara<sup>1</sup>, University of California at Davis, M.I.N.D. Institute, Sacramento, CA
- 9:00 131 132.131 The Effectiveness of Intensive Behavioural Intervention In Children with Autism Over the Age of 6 Years: A Matched-Sample Controlled Study. K. O. Blacklock<sup>1</sup> and A. Perry<sup>2</sup>, (1)York University, Toronto, ON, Canada, (2)Department of Psychology, York University, Toronto, ON, Canada
- 10:00 132 132.132 A Review of Early Parent Training and Coaching Models in Autism: Parent and Family Functioning in the First Year After Autism Diagnosis. T. Sendowski<sup>1</sup>, B. Siegel<sup>2</sup>, S. Radhakrishna<sup>3</sup>, O. Park<sup>3</sup> and S. Phuchareon<sup>3</sup>, (1)Child and Adolescent Psychiatry, University of California, San Francisco, San Francisco, CA, (2)University of California, San Francisco, CA, (3)Children's Center at Langley Porter, Child and Adolescent Psychiatry, University of California, San Francisco, CA
- 11:00 133 132.133 Effects of Video Feedback on Parent Implementation of Pivotal Response Treatment. W. A. Ence<sup>1,2</sup> and R. L. Koegel<sup>3</sup>, (1)Counseling, Clinical, & School Psychology, University of California, Santa Barbara, CA, (2)University of North Carolina, Chapel Hill, NC, (3)Department of Counseling, Clinical, & School Psychology, University of California, Santa Barbara, CA
- 9:00 134 132.134 Teaching Social Skills to Preschool Children with Autism Spectrum Disorders: Development of the UCLA PEERS for Preschoolers Program. C. A. Roman<sup>1</sup>, M. N. Park<sup>2</sup>, J. S. Sanderson<sup>3</sup> and E. Laugeson<sup>4</sup>, (1)UCLA, Los Angeles, CA, (2)Psychiatry, UCLA Semel Institute, Los Angeles, CA, (3)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 10:00 135 132.135 The ELM As a Predictor for 12-Month Adaptive Behavior Outcomes for Children with Autism and Intellectual Disabilities. J. A. Reitzel<sup>1</sup>, McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada



- 11:00 136 132.136 The Effect of Robot-Child Interactions on Solo and Social Multilimb Synchrony in Typically Developing Children and Children with Autism Spectrum Disorders Between 4-8 Years of Age. M. Kaur<sup>1</sup>, S. Srinivasan<sup>1</sup>, T. Gifford<sup>2</sup>, K. Marsh<sup>2</sup> and A. Bhat<sup>1,3</sup>, (1)Kinesiology, University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT
- 9:00 137 132.137 Defining and Determining Factors Influencing Professional Decision-Making in Eclectic Early Intervention Models. L. A. Sperry<sup>1</sup>, K. Hume<sup>2</sup>, B. Boyd<sup>3</sup> and M. McBee<sup>4</sup>, (1)Arts, Education and Law, Griffith University, Brisbane, Australia, (2)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, NC, (3)Occupational Science, University of North Carolina at Chapel Hill, NC, (4)University of North Carolina, Chapel Hill, NC
- 10:00 138 132.138 Improving Prosocial Behavior in Children and Adolescents with Autism Spectrum Disorders: The Positive Impact of Music Education in the School Setting. Y. Bolourian<sup>1</sup>, L. Henry<sup>2</sup>, M. Goodarzi<sup>2</sup>, R. W. Ellingsen<sup>3</sup>, L. Tucci<sup>4</sup> and E. Laugeson<sup>5</sup>, (1)UCLA, Los Angeles, CA, (2)UCLA, Los Angeles, CA, (3)Clinical Psychology, UCLA, Los Angeles, CA, (4)UCLA Autism Research Alliance, The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (5)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 11:00 139 132.139 Adapted Shared Reading for Minimally Verbal Students with Autism. C. Mucchetti<sup>1</sup>, University of California, Los Angeles, Valley Village, CA
- 9:00 140 132.140 Autism Intervention in the First Year of Life. S. J. Rogers<sup>1</sup>, L. A. Vismara<sup>2</sup> and A. Wagner<sup>3</sup>, (1)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, (2)University of California at Davis M.I.N.D. Institute, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, M.I.N.D. Institute, UC Davis Medical Centre, Sacramento, CA
- 10:00 141 132.141 Caregiver Mediated Joint Engagement Intervention for Young Children with Autism: A Case Study. C. L. Chu<sup>1</sup>, T. C. Lee<sup>2</sup> and C. H. Chiang<sup>3</sup>, (1)Psychology, National Chung Cheng University, Chiayi, Taiwan, (2)Education, National Chengchi University, Taipei, Taiwan, (3)Psychology, National Chengchi University, Taipei, Taiwan
- 11:00 142 132.142 Promoting Quality and Use of Evidence-Based Practices for Children with Autism Spectrum Disorders in Inclusive Early Childhood Classrooms. C. Wong<sup>1</sup> and S. L. Odom<sup>2</sup>, (1)FPG Child Development Institute, UNC, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, NC
- 9:00 143 132.143 The Effects of Robot-Child Interactions on the Solo and Social Drumming Synchrony of Typically Developing Children and Children with Autism Spectrum Disorders Between 4 to 8 Years of Age. S. Srinivasan<sup>1</sup>, M. Kaur<sup>1</sup>, T. Gifford<sup>2</sup>, K. Marsh<sup>2</sup>, B. Kay<sup>2</sup> and A. Bhat<sup>3</sup>, (1)Kinesiology, University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT
- 10:00 144 132.144 Using LENA Automated Analysis to Monitor the Language Experience of Children During Therapy, Preschool and with Primary Caregivers. J. Gilkerson<sup>1</sup>, J. A. Richards<sup>2</sup> and D. Xu<sup>3</sup>, (1)LENA Foundation, Boulder, CO, (2)Research, LENA Foundation, Boulder, CO, (3)Engineering, LENA Foundation, Boulder, CO
- 11:00 145 132.145 Efficacy of Early Intervention Program: Evidence From Behavioral, Cognitive and Socio-Emotional Evaluations. F. Bonnet-Brilhault<sup>1</sup>, R. Blanc<sup>1</sup>, S. Roux<sup>2</sup>, P. Dansart<sup>2</sup>, J. Malvy<sup>1</sup> and C. Barthelemy<sup>3</sup>, (1)Centre de PedoPsychiatrie, Tours, France, (2)Tours, France, (3)Centre de PedoPsychiatrie, Tours, France
- 9:00 146 132.146 Comparison of Different Treatment Methods on Social Communicative Abilities in Young Children with Autism Spectrum Disorders. S. Van der Paelt<sup>1</sup>, P. Warreyn and H. Roeyers, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium
- 10:00 147 132.147 Moment-by-Moment Sequential Analysis of a Social Engagement Intervention for Young Children with Autism and Their Parents. T. W. Vernon<sup>1</sup> and R. L. Koegel<sup>2</sup>, (1)Koegel Autism Center, Department of Counseling, Clinical, & School Psychology, University of California, Santa Barbara, CA, (2)Department of Counseling, Clinical, & School Psychology, University of California, Santa Barbara, CA
- 11:00 148 132.148 Stress in Parents of Children with Risk for ASD in An Early Intervention Program. S. Dufek<sup>1</sup>, E. C. Worcester<sup>1</sup>, L. Schreibman<sup>1</sup>, A. C. Stahmer<sup>1,2</sup>, K. Pierce<sup>3</sup> and E. Courchesne<sup>4</sup>, (1)University of California, San Diego, La Jolla, CA, (2)Rady Children's Hospital, San Diego, CA, (3)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, San Diego, CA, (4)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, La Jolla, CA
- 9:00 149 132.149 Evaluation of Early Intervention Outcome in Young Children with Risk for ASD. E. C. Worcester<sup>1</sup>, S. Dufek<sup>1</sup>, L. Schreibman<sup>1</sup>, A. C. Stahmer<sup>1,2</sup>, K. Pierce<sup>3</sup> and E. Courchesne<sup>4</sup>, (1)University of California, San Diego, La Jolla, CA, (2)Rady Children's Hospital, San Diego, San Diego, CA, (3)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, CA, (4)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, La Jolla, CA
- 10:00 150 132.150 The Social ABCs for Toddlers with Suspected Autism: Pilot Evaluation of a Parent-Mediated Intervention. J. A. Brian<sup>1</sup>, I. M. Smith<sup>2</sup>, T. McCormick<sup>3</sup>, E. Dowds<sup>4</sup>, J. C. P. Longard<sup>5</sup>, S. W. Roberts<sup>6</sup>, L. Zwaigenbaum<sup>7</sup> and S. E. Bryson<sup>2</sup>, (1)Bloorview Research Institute, Toronto, ON, Canada, (2)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (3)Psychology, IWK Health Centre, Halifax, NS, Canada, (4)Bloorview Kids Rehab and Hospital for Sick Children/ University of Toronto, Toronto, ON, Canada, (5)Psychology, Dalhousie University, Halifax, NS, Canada, (6)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (7)University of Alberta, Edmonton, AB, Canada

- 11:00 151 132.151 Examining the Fidelity of Implementation of Comprehensive Treatment Models for Preschoolers with ASD. K. Hume<sup>1</sup>, Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, NC
- 9:00 152 132.152 The Effects of Robot-Child-Child Interactions on Joint Attention and Verbalizations Patterns of Typically Developing Children and Children with ASDs Between 4 to 8 Years of Age. C. Susca<sup>1</sup>, S. Srinivasan<sup>1</sup>, M. Kaur<sup>1</sup> and A. Bhat<sup>2</sup>, (1)Kinesiology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT
- 10:00 153 132.153 Measurement, Stability, and Modification of Prelinguistic Symptoms of Autism in Low-Risk Infants. J. Bradshaw<sup>1,2</sup>, L. K. Koegel<sup>2</sup> and R. L. Koegel<sup>1,2</sup>, (1)Department of Counseling, Clinical, & School Psychology, University of California, Santa Barbara, CA, (2)Koegel Autism Center, University of California, Santa Barbara, CA
- 11:00 154 132.154 Moderators of Cognitive Outcomes for Children with Autism Receiving Community-based Early Intervention in Three Settings. A. S. Nahmias<sup>1,2</sup>, C. Kase<sup>3</sup> and D. S. Mandell<sup>2,4</sup>, (1)Department of Psychology, University of Pennsylvania, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)University of Pennsylvania School of Medicine, Philadelphia, PA
- 9:00 155 132.155 Implementing Evidence-Based Intervention for Young Children with Autism. V. Nanclares-Nogués<sup>1</sup>, C. P. Rolland<sup>2</sup>, M. Cupoli<sup>3</sup>, M. DiQuattro<sup>4</sup>, S. Gove<sup>5</sup> and M. E. Msall<sup>6</sup>, (1)Developmental Pediatrics, Advocate Illinois Masonic Medical Center, Chicago, IL, (2)Developmental Pediatrics, Advocate Illinois Masonic Medical Center, Chicago, IL, (3)Advocate Illinois Masonic Medical Center, Chicago, IL, (4)Developmental Pediatrics, Advocate IL Masonic Medical Center, Chicago, IL, (5)University of Chicago, Chicago, IL, (6)University of Chicago Comer Children's Hospital, Chicago, IL
- 10:00 156 132.156 Examining Factors Related to Response to Treatment in Autism Spectrum Disorders. K. Fossum<sup>1</sup>, I. M. Smith<sup>2</sup> and S. E. Bryson<sup>2</sup>, (1)Psychology, Dalhousie University, Halifax, NS, Canada, (2)Dalhousie University/IWK Health Centre, Halifax, NS, Canada
- 10:00 158 133.158 Adult Outcomes in Autism: A Prospective Longitudinal Examination of the Effects of Early Intensive Intervention — A 20-Year Follow-up. B. Siegel<sup>1</sup>, T. Sendowski<sup>2</sup>, O. Park<sup>3</sup>, S. Radhakrishna<sup>3</sup> and W. Phuchareon<sup>3</sup>, (1)University of California, San Francisco, CA, (2)Child and Adolescent Psychiatry, University of California, San Francisco, CA, (3)Children's Center at Langley Porter, Child and Adolescent Psychiatry, University of California, San Francisco, CA
- 11:00 159 133.159 Double-Blind Placebo-Controlled Trial of Methyl B12 Injections for Children with Autism. F. Widjaja<sup>1</sup>, J. E. Choi<sup>1</sup>, S. J. James<sup>2</sup>, R. E. Frye<sup>3</sup> and R. L. Hendren<sup>4</sup>, (1)Department of Child and Adolescent Psychiatry, University of California, San Francisco, CA, (2)University of Arkansas for Medical Sciences, Little Rock, AR, (3)Department of Pediatrics, Arkansas Children's Hospital Research Institute, Little Rock, AR, (4)University of California, San Francisco, CA
- 9:00 160 133.160 Effects of Video-Modeling Interventions on Social and Communication Skills of Children with Autism Spectrum Disorders: A Meta-Analysis. C. Qi<sup>1</sup> and Y. L. Lin<sup>2</sup>, (1)Educational Specialties, University of New Mexico, Albuquerque, NM, (2)Educational Specialties, University of New Mexico, Albuquerque, NM
- 10:00 161 133.161 Barriers to Successful Training in Positive Behavior Support: Predictors of Attrition and Success. M. L. Rinaldi<sup>1</sup>, K. V. Christodulu<sup>2</sup> and V. M. Durand<sup>3</sup>, (1)Center for Autism and Related Disabilities, University at Albany - SUNY, Albany, NY, (2)Center for Autism and Related Disabilities, University at Albany, SUNY, Albany, NY, (3)University of South Florida, St. Petersburg, FL
- 11:00 162 133.162 Changes in Autistic Social Impairment with Treatment: Exploration of SRS Treatment Scales. S. W. White<sup>1</sup>, L. Scahill<sup>2</sup> and T. Ollendick<sup>1</sup>, (1)Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)School of Medicine, Yale University, New Haven, CT
- 9:00 163 133.163 Induction of Cellular Stress As a Potential Therapeutic Mechanism for Treatment of Autism. K. Singh<sup>1</sup>, K. D. Smith<sup>2</sup> and A. W. Zimmerman<sup>1</sup>, (1)Pediatrics, Lurie Center for Autism, MassGeneral Hospital for Children, Lexington, MA, (2)Kennedy Krieger Institute, Baltimore, MD
- 10:00 164 133.164 Functional Health Outcomes of An Outdoor Sports Camp for Children with An Autism Spectrum Disorder. H. B. Carroll<sup>1</sup>, J. A. Agnew, Z. Pan and R. L. Gabriels, Children's Hospital Colorado/The University of Colorado at Denver and Health Sciences Center, Aurora, CO
- 11:00 165 133.165 Therapeutic Horseback Riding In Children with Autism Spectrum Disorders. Z. Pan<sup>1</sup>, J. A. Agnew<sup>1</sup>, A. Sholffner<sup>2</sup>, J. Vendl<sup>3</sup>, J. S. Runde<sup>4</sup> and R. L. Gabriels<sup>1</sup>, (1)Children's Hospital Colorado / The University of Colorado at Denver and Health Sciences Center, Aurora, CO, (2)Colorado Therapeutic Riding Center, Longmont, CO, (3)Children's Hospital Colorado / The University of Colorado at Denver and Health Sciences Center, Aurora, CO, (4)Children's Hospital Colorado / The University of Colorado at Denver and Health Sciences Center, Aurora, CO

Poster Sessions

133 - Treatment III: Pharmacologic, Treatment Factors, Outcome Measures

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 157 133.157 A Systematic Review of Psychosocial Interventions for Adults with Autism Spectrum Disorders. L. Bishop-Fitzpatrick<sup>1</sup>, S. M. Eack<sup>1</sup> and N. J. Minshew<sup>2</sup>, (1)School of Social Work, University of Pittsburgh, Pittsburgh, PA, (2)Psychiatry & Neurology, University of Pittsburgh, Pittsburgh, PA

- 9:00 166 133.166 Movement Skill Trajectories Among Children with ASD. K. Staples<sup>1</sup> and C. Zimmer, University of Regina, Regina, SK, Canada
- 10:00 167 133.167 A Qualitative Methods Study of How Parents of Children with Autism Find and Use Information about Interventions. S. J. Gentles<sup>1</sup>, K. A. McKibbin<sup>1</sup>, S. Jack<sup>2</sup>, D. B. Nicholas<sup>3</sup> and P. Szatmari<sup>4</sup>, (1)Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, ON, Canada, (2)School of Nursing, McMaster University, Hamilton, ON, Canada, (3)University of Calgary, Edmonton, AB, Canada, (4)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada
- 11:00 168 133.168 Diagnosis and Management of Autism Spectrum Conditions in Adults : The Dutch 2012 Guideline. W. J. Verbeeck<sup>1</sup> and B. B. Sizoo<sup>2</sup>, (1)Center for Autism and ADHD, Vincent van Gogh Institute, Venray, Netherlands, (2)Center for Developmental Disorders, Dimece, Deventer, Netherlands
- 9:00 169 133.169 Strategies for Accessing and Implementing Inclusive Personal Training Programs for Young Adults with Autism. D. Campbell<sup>1</sup> and K. G. Steiner<sup>2</sup>, (1)allAbilitiesFitness, Kingston, ON, Canada, (2)New Leaf Link, Hartington, ON, Canada
- 10:00 170 133.170 Cerebral Folate Receptor Autoantibodies in Autism Spectrum Disorder. R. E. Frye<sup>1</sup>, J. M. Sequeira<sup>2</sup>, E. V. Quadros<sup>2</sup>, S. J. James<sup>1</sup> and D. Rossignol<sup>3</sup>, (1)University of Arkansas for Medical Sciences, Little Rock, AR, (2)Departments of Medicine/Cell Biology/Biochemistry, SUNY-Downstate Medical Center, Brooklyn, NY, (3)International Child Development Resource Center, Melbourne, FL
- 11:00 171 133.171 Get FRESH: Evaluation of A Healthy Lifestyles Group for Teens with ASDs and Their Parents. S. Nichols<sup>1</sup>, L. Adamek<sup>2</sup>, E. M. Mansdorf<sup>2</sup>, S. P. Tetenbaum<sup>1</sup>, L. B. Perlis<sup>4</sup> and G. Reilly<sup>5</sup>, (1)ASPIRE Center for Learning and Development, Melville, NY, (2)Children's Hospital Boston, Boston, MA, (3)Department of Psychology, Hofstra University, Hempstead, NY, (4)Independent Practice, Columbia, MD, (5)Stony Brook University Medical Center Department of Social Work, Stony Brook University, Stony Brook, NY
- 9:00 172 133.172 The Effectiveness of a Yoga-based Program on Decreasing Maladaptive Behaviors in School-Aged Children with ASD. K. P. Koenig<sup>1</sup>, A. Buckley-Reen<sup>2</sup> and S. Garg<sup>3</sup>, (1)Department of Occupational Therapy, New York University, New York, NY, (2)For Kids OT, PC, Ft. Tilden, NY, (3)New York University, New York, NY
- 10:00 173 133.173 A Placebo-Controlled, Double-Blinded Study of Minocycline in Children with Fragile X Syndrome. M. J. Leigh<sup>1</sup>, D. Nguyen<sup>2</sup>, T. Winarni<sup>3</sup>, A. Schneider<sup>1</sup>, T. Chechi<sup>1</sup>, S. M. Rivera<sup>4</sup>, D. Hessl<sup>5</sup> and R. J. Hagerman<sup>1</sup>, (1)Pediatrics, U.C. Davis M.I.N.D. Institute, Sacramento, CA, (2)Biostatistics, U.C. Davis, Davis, CA, (3)CEBIOR Diponegoro University, Semarang, Indonesia, (4)Psychology, U.C. Davis Center for Mind & Brain, M.I.N.D. Institute, Davis, CA, (5)Psychiatry, U.C. Davis M.I.N.D. Institute, Sacramento, CA
- 11:00 174 133.174 Societal Economic Burden of Autism on Families in Oman: A Cross-Sectional Study. Y. M. Al-Farsi<sup>1</sup>, M. I. Waly, M. Al-Sharbaty, S. Al-Fahdi, A. Al-Farsi, S. Al-Suleimani, O. A. Al-Farsi and M. Al-Shafae, Sultan Qaboos University, Muscat, Oman
- 9:00 175 133.175 The Feasibility and Efficacy of Problem-solving Therapy in College Students with Autism Spectrum Disorders. C. E. Pugliese<sup>1</sup> and S. W. White, Virginia Polytechnic Institute and State University, Blacksburg, VA
- 10:00 176 133.176 Treatment of Fragile X Syndrome with STX209 (arbaclofen): Open-Label Extension Experience. R. J. Hagerman<sup>1</sup>, B. Rathmell<sup>2</sup>, P. Wang<sup>3</sup>, M. Cherubini<sup>2</sup>, R. L. Carpenter<sup>3</sup>, M. F. Bear<sup>4</sup> and E. Berry-Kravis<sup>5</sup>, (1)Pediatrics, U.C. Davis MIND Institute, Sacramento, CA, (2)Seaside Therapeutics, Cambridge, MA, (3)Seaside Therapeutics, Cambridge, MA, (4)HHMI and MIT, Cambridge, MA, (5)Pediatrics; Biochemistry; Neurological Sciences, Rush University Medical Center, Chicago, IL
- 11:00 177 133.177 A Systematic Review of Non-Pharmacological Interventions on Sleep Problems in Youth with An Autism Spectrum Disorder. C. A. Brown<sup>1</sup>, M. H. Kuo<sup>1</sup>, L. Phillips<sup>2</sup>, R. Berry<sup>1</sup> and M. Tan<sup>1</sup>, (1)University of Alberta, Edmonton, AB, Canada, (2)Concordia University College of Alberta, Edmonton, AB, Canada
- 9:00 178 133.178 Extended Release Methylphenidate Is Associated with Cognitive Improvement in Children with ASD and Significant ADHD Symptomatology. D. A. Pearson<sup>1</sup>, C. W. Santos<sup>1</sup>, M. G. Aman<sup>2</sup>, L. E. Arnold<sup>2</sup>, C. D. Casat<sup>3</sup>, K. A. Loveland<sup>1</sup>, R. J. Schachar<sup>4</sup>, S. W. Jerger<sup>5</sup>, R. Mansour<sup>1</sup>, D. M. Lane<sup>6</sup>, S. Vanwoerden<sup>1</sup>, E. Ye<sup>1</sup>, P. Narain<sup>1</sup> and L. A. Cleveland<sup>1</sup>, (1)Psychiatry & Behavioral Sciences, University of Texas Medical School, Houston, TX, (2)The Nisonger Center UCEDD, Ohio State University, Columbus, OH, (3)Carolina NeuroSolutions, LLC, Charleston, SC, (4)Neurosciences and Mental Health Psychiatry Dept., The Hospital for Sick Children, Toronto, ON, Canada, (5)School of Behavioral and Brain Sciences, University of Texas at Dallas, Richardson, TX, (6)Psychology, Rice University, Houston, TX
- 10:00 179 133.179 Sex Differences in Co-occurring Conditions of ASD. M. Stacy<sup>1</sup>, B. Zablotsky<sup>2</sup>, H. Close<sup>3</sup>, B. Makia<sup>4</sup>, A. W. Zimmerman<sup>5</sup> and L. C. Lee<sup>3</sup>, (1)Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, (2)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Johns Hopkins School of Public Health, Baltimore, MD, (5)Pediatrics, Lurie Center for Autism, Mass General Hospital for Children, Lexington, MA
- 11:00 180 133.180 The DD-CGAS As a Tool for the Assessment of Global Functioning in Treatment Outcome Research. L. A. Smith<sup>1</sup>, A. R. Schry and S. W. White, Virginia Polytechnic Institute and State University, Blacksburg, VA
- 9:00 181 133.181 Measuring Change in Social Competence Observationally in Adults with ASD. S. W. White<sup>1</sup> and A. Scarpa<sup>2</sup>, (1)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Psychology, Virginia Tech, Blacksburg, VA
- 10:00 182 133.182 Positive Behavior Supports for Individuals Diagnosed with ASD: Basic Behaviors & Life Skills. A. R. Amraotkar<sup>1</sup> and M. Boman, Kelly Autism Program, Western Kentucky University, Bowling Green, KY
- 11:00 183 133.183 Effect of a Vitamin/Mineral Supplement on Children and Adults with Autism. J. Adams<sup>1</sup>



- 9:00 184 133.184 A Pilot Study of Oxytocin in Children and Adolescents with Autistic Disorder. L. Sikich<sup>1,2</sup>, T. C. Bethea<sup>1,2</sup> and C. Alderman<sup>2</sup>, (1)Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (2)Department of Psychiatry, ASPIRE Research Program, Chapel Hill, NC
- 10:00 185 133.185 Effects of Ambient Prism Lenses on Autonomic Reactivity to Emotional Stimuli in Autism. G. Sokhadze<sup>1</sup>, M. Kaplan<sup>2</sup>, E. M. Sokhadze<sup>3</sup>, S. M. Edelson<sup>4</sup>, J. M. Baruth<sup>5</sup>, A. S. El-Baz<sup>6</sup>, M. Hensley<sup>7</sup> and M. F. Casanova<sup>3</sup>, (1)Psychology & Brain Sciences, University of Louisville, Louisville, KY, (2)Center for Visual Management, Tarrytown, NY, (3)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (4)Autism Research Institute, San Diego, CA, (5)Anatomical Sciences & Neurobiology, University of Louisville, Louisville, KY, (6)Bioengineering, University of Louisville, Louisville, KY, (7)University of Louisville, Louisville, KY
- 11:00 186 133.186 Pre-Treatment Gene Expression and Risperidone Associated Weight Gain in Children with Autism Spectrum Disorders (ASD). J. E. Choi<sup>1</sup>, F. Widjaja<sup>1</sup>, A. D. Sossong<sup>2,3</sup>, L. Lit<sup>4</sup>, F. R. Sharp<sup>5</sup> and R. L. Hendren<sup>1</sup>, (1)Department of Child and Adolescent Psychiatry, University of California, San Francisco, CA, (2)Massachusetts General Hospital, Boston, MA, (3)Harvard Medical School, Boston, MA, (4)MIND Institute and Department of Neurology, University of California, Davis, Sacramento, CA, (5)MIND Wet Labs, University of California at Davis, Sacramento, CA
- 9:00 187 133.187 Metabolic Effects of Tetrahydrobiopterin Treatment. R. E. Frye<sup>1</sup>, R. DeLaTorre<sup>2</sup>, H. Taylor<sup>2</sup>, S. Melnyk<sup>3</sup> and S. J. James<sup>3</sup>, (1)Department of Pediatrics, Arkansas Children's Hospital Research Institute, Little Rock, AR, (2)Children's Learning Institute, University of Texas - Health, Houston, TX, (3)University of Arkansas for Medical Sciences, Little Rock, AR
- 10:00 188 133.188 Vocational and Personal Independence Training for Adolescents and Adults with ASD. S. L. Booker<sup>1</sup>, T. Gower Foster, K. Ward and S. V. Leew, Society for Treatment of Autism, Calgary, AB, Canada
- 11:00 189 133.189 "Nutritional Supplementation in Children with Autism Spectrum Disorders (ASD) in Qatar: Effects on the Methionine-Transsulfuration Cycle and Behavior". F. T. Al-Rawi<sup>1</sup>, P. Chandra<sup>2</sup>, N. H. Al Kadhee<sup>3</sup>, A. M. Al-Balsha<sup>1</sup> and L. Hedin<sup>4</sup>, (1)Paediatrics, Hamad Medical Corporation, Doha, Qatar, (2)Medical Research Center, Hamad Medical Corporation, Doha, Qatar, (3)Gama Dynacare Labs, Mississauga, ON, Canada, (4)Primary Health Care, Scania County, Åhus, Sweden
- 9:00 190 133.190 Effects of Oxytocin on Face Processing in Autism. G. Domes<sup>1</sup>, Biological Psychology, University of Freiburg, Freiburg, Germany
- 10:00 191 133.191 Three Cases – 5 Methodologies: 5 Recommendations. S. Shore<sup>1</sup>, Williston Park, NY
- 11:00 192 133.192 Modulation of RhoGTPases by the Bacterial Protein CNF1 Improves the Neurobehavioural Phenotype in a Mouse Model of Rett Syndrome. B. De Filippis<sup>1</sup>, A. Fabbri<sup>2</sup>, D. Simone<sup>1</sup>, R. Canese<sup>1</sup>, F. Malchiodi-Albedi<sup>1</sup>, L. Ricceri<sup>1</sup>, C. Fiorentini<sup>2</sup> and G. Laviola<sup>1</sup>, (1)Cell Biology and Neuroscience, Istituto Superiore di Sanità, Roma, Italy, (2)Therapeutic Research and Medicines Evaluation, Istituto Superiore di Sanità, Roma, Italy
- 9:00 193 133.193 Behavioral Intervention: Severe Behavior Follow-up Program. A. R. Reavis<sup>1</sup>, N. A. Parks<sup>1</sup>, B. R. Lopez<sup>1</sup> and N. A. Call<sup>2</sup>, (1)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA
- 10:00 194 133.194 An Innovative Behavioral Treatment for Restrictive, Rigid Behaviors Displayed in Persons with ASD. L. A. Oakes<sup>1</sup>, D. A. Napolitano<sup>2</sup>, T. Smith<sup>3</sup> and V. M. Knapp<sup>4</sup>, (1)University of Rochester, Rochester, NY, (2)Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (3)University of Rochester, Rochester, NY, (4)Summit Academy, Getzville, NY
- 11:00 195 133.195 A Structured Indirect Assessment of Problem Behavior Severity. N. A. Parks<sup>1</sup>, D. E. Conine<sup>1</sup>, B. R. Lopez<sup>1</sup> and N. A. Call<sup>2</sup>, (1)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA
- 9:00 196 133.196 The Affect of Delays to Treatment Outcome on How Caregivers of Children with ASDs Value Treatments. N. A. Call<sup>1</sup>, A. R. Reavis<sup>2</sup> and A. J. Findley<sup>2</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA
- 10:00 197 133.197 Cognitive-Kinesthetic Integration: Using a Novel Multifaceted Model and Exercise to Target Compliance, Challenging Behaviors and Stereotypy in Autism. K. Ibrahim<sup>1</sup> and J. Zarcone<sup>2</sup>, (1)Graduate Institute of Professional Psychology, University of Hartford, West Hartford, CT, (2)Kennedy Krieger Institute, Johns Hopkins School of Medicine, Baltimore, MD
- 11:00 198 133.198 Analysis of Demand Assessments in the Treatment of Severe Behavior. J. C. Mintz<sup>1</sup>, N. A. Call<sup>2</sup> and N. A. Parks<sup>1</sup>, (1)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA
- 9:00 199 133.199 Social Validity and the Children with Hyperactivity and Autism Research Treatment Study. J. A. Hollway<sup>1</sup>, P. A. Sayre<sup>2</sup>, M. G. Aman<sup>3</sup>, L. E. Arnold<sup>4</sup>, T. Smith<sup>5</sup> and B. L. Handen<sup>6</sup>, (1)IDD Psychology, Nisonger Center, The Ohio State University, Columbus, OH, (2)Nisonger Center, Ohio State University, Columbus, OH, (3)The Nisonger Center UCEDD, The Ohio State University, Columbus, OH, (4)The Nisonger Center UCEDD, Ohio State University, Columbus, OH, (5)Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (6)University of Pittsburgh School of Medicine, Pittsburgh, PA

- 10:00 200 133.200 Auditory-Motor Mapping Training and Language-Related Pathways in Minimally Verbal Children with ASD. C. Y. Wan<sup>1</sup>, A. Landers, A. Norton and G. Schlaug, Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA
- 11:00 201 133.201 Treatment of Ritualistic Behavior Using Principles of Behavioral Economics. L. A. Pepa<sup>1</sup>, C. Manente<sup>1</sup>, J. Maraventano<sup>2</sup>, A. Shcherbakov<sup>1</sup>, S. Wichtel<sup>1</sup>, I. Jorge<sup>1</sup>, E. Thomas<sup>3</sup> and R. H. LaRue<sup>1</sup>, (1)Rutgers University- Douglass Developmental Disabilities Center, New Brunswick, NJ, (2)Rutgers University – Douglass Developmental Disabilities Center, New Brunswick, NJ, (3)Rutgers University – Douglass Developmental Disabilities Center, New Brunswick, NJ
- 9:00 202 133.202 Factors Predicting Continued Bicycle Riding Success in Youth with Autism Spectrum Disorders. J. L. Hauck<sup>1</sup> and L. R. Ketcheson<sup>2</sup>, (1)University of Michigan, Ann Arbor, MI, (2)School of Kinesiology, University of Michigan, Ann Arbor, MI
- 10:00 203 133.203 Self-Determination Measures with College Students Diagnosed with Asperger. M. Boman<sup>1</sup> and A. R. Amraotkar, Kelly Autism Program, Western Kentucky University, Bowling Green, KY
- 11:00 204 133.204 Development and Interrater Reliability of a New Measure of Functional Behaviour Skills for Children with Autism Spectrum Disorder. B. Lorv<sup>1</sup>, J. A. Reitzel<sup>2</sup>, J. Summers<sup>3</sup>, P. Szatmari<sup>4</sup>, L. Zwaigenbaum<sup>5</sup>, S. Georgiades<sup>4</sup>, E. Duku<sup>4</sup> and M. Gandolfo<sup>1</sup>, (1)McMaster University, Hamilton, ON, Canada, (2)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada, (3)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada, (4)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (5)University of Alberta, Edmonton, AB, Canada
- 9:00 205 133.205 The Early Learning Measure As a Predictor for 12- Month Adaptive Behavior Outcomes for Children with Autism and Intellectual Disabilities. J. Summers<sup>1</sup>, J. A. Reitzel<sup>2</sup>, D. Lee<sup>3</sup>, L. Zwaigenbaum<sup>4</sup>, P. Szatmari<sup>5</sup>, S. Georgiades<sup>5</sup>, E. Duku<sup>5</sup> and K. A. Baird<sup>6</sup>, (1)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada, (2)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada, (3)McMaster University, Hamilton, ON, Canada, (4)University of Alberta, Edmonton, AB, Canada, (5)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (6)Psychology, Neuroscience, and Behaviour, McMaster University, Ancaster, ON, Canada
- 10:00 206 133.206 Validation of the Conversation Participation Rating Scale. G. R. Timler<sup>1</sup> and W. Boone<sup>2</sup>, (1)Speech Pathology & Audiology, Miami University, Oxford, OH, (2)Educational Psychology, Miami University, Oxford, OH
- 11:00 207 133.207 Autism Symptoms and the Functions of Problem Behavior. K. Pelzel<sup>1</sup>, D. P. Wacker<sup>2</sup>, S. D. Lindgren<sup>2</sup>, Y. C. Padilla<sup>3</sup>, J. F. Lee<sup>3</sup>, T. Kopelman<sup>4</sup>, J. Kuhle<sup>5</sup> and D. B. Waldron<sup>2</sup>, (1)Center for Disabilities and Development, University of Iowa Hospitals and Clinics, Iowa City, IA, (2)Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA, (3)University of Iowa, Iowa City, IA, (4)Pediatrics, University of Iowa Children's Hospital, Iowa City, IA, (5)University of Iowa Hospitals and Clinics, Iowa City, IA
- 9:00 208 133.208 Evidence of Frequent Psychotropic Medication Use Among Children with Autism Spectrum Disorders and Their Family Members. A. Jain<sup>1</sup>, D. Spencer<sup>2</sup>, J. Marshall<sup>1</sup>, C. J. Newschaffer<sup>3</sup>, G. Yang<sup>1</sup>, L. J. Lawer<sup>4</sup> and T. Dennen<sup>1</sup>, (1)The Lewin Group, Falls Church, VA, (2)Health Economics and Outcomes Research, Optum Insight, Eden Prairie, MN, (3)Drexel University School of Public Health, Philadelphia, PA, (4)University of Pennsylvania School of Medicine, Philadelphia, PA
- 10:00 209 133.209 The Effect of a Co-Robot Therapist On Repetitive Behaviors During Applied Behavior Analysis In Individuals with Autism Spectrum Disorders. E. A. Klinepeter<sup>1</sup>, N. M. Shea<sup>2</sup>, B. Thomas<sup>3</sup>, M. Van Ness<sup>1</sup>, J. Kumar<sup>1</sup>, S. L. Mazur<sup>4</sup>, M. A. Millea<sup>2</sup>, K. Wier<sup>2</sup>, M. Villano<sup>2</sup>, C. R. Crowell<sup>2</sup> and J. J. Diehl<sup>1</sup>, (1)Center for Children and Families, University of Notre Dame, Notre Dame, IN, (2)Psychology, University of Notre Dame, Notre Dame, IN, (3)Northwestern University, Evanston, IL, (4)Department of Psychology, University of Notre Dame, Notre Dame, IN
- 11:00 210 133.210 Influence of Symptom Severity and Adaptive Behavior Functioning of Children with Autism Spectrum Disorders On Parental Adherence to Treatment Recommendations. K. Tang<sup>1</sup>, A. Dammann<sup>2</sup>, E. Nash<sup>2</sup>, K. DiPiero<sup>3</sup>, K. A. Uhland<sup>1</sup> and J. J. Diehl<sup>1,4</sup>, (1)Psychology, University of Notre Dame, Notre Dame, IN, (2)University of Notre Dame, Notre Dame, IN, (3)St. Mary's College, Notre Dame, IN, (4)Center for Children and Families, University of Notre Dame, Notre Dame, IN
- 9:00 211 133.211 Medication Use Among a Cohort of Adolescents with An Autism Spectrum Disorder. M. Maye<sup>1</sup>, F. Martinez-Pedraza<sup>1</sup>, T. W. Soto<sup>1</sup>, D. K. Anderson<sup>2</sup>, C. E. Lord<sup>2</sup> and L. Wainwright<sup>1</sup>, (1)University of Massachusetts, Boston, MA, (2)Institute for Brain Development, Weill Cornell Medical College, White Plains, NY
- 10:00 212 133.212 The Role of a Biomarker in the Double Blind Placebo – Controlled Study of CM-AT in Children with Autistic Disorder Ages 3-8. J. Fallon<sup>1</sup> and M. Heil<sup>2</sup>, (1)Rye, NY, (2)Curemark LLC, Rye, NY
- 11:00 213 133.213 Effectiveness of a Rapid Toilet Training Workshop for Parents of Children with Autism and Other Developmental Disabilities. K. Rinald<sup>1</sup> and P. Mirenda<sup>2</sup>, (1)Vancouver, BC, Canada, (2)University of British Columbia, Vancouver, BC, Canada

1:30-3:30P	<b>IES – Grand Ballroom Centre</b> Progress, Pitfalls, and Potential of Postmortem Human Brain Research on Autism			1:00-5:30P <b>Poster Session – Sheraton Hall</b> Cognition & Behavior I Cognition & Behavior II Cognition & Behavior III Cognition & Behavior IV Cognition & Behavior V
1:30-3:30P	<b>Oral Session – Grand Ballroom East</b> Early Developmental Processes and Trajectories in ASD: Infant and Toddler Studies	<b>Oral Session – Grand Ballroom West</b> Core Symptoms	<b>Oral Session – Osgoode Ballroom East</b> Stakeholder Experience	
3:30-4:00P	Break – Sheraton Hall			
4:00-5:00P	<b>Session: An Update on the DSM-5 Recommendations for Autism Spectrum Disorder and Other Neurodevelopmental Disorders – Grand Ballroom Centre</b>			
4:00-5:00P	<b>Scientific Panel – Grand Ballroom East</b> CNVs in ASD Molecular Findings, Clinical Outcomes and Ethical – Implications	<b>Scientific Panel – Grand Ballroom West</b> Social Perception in Toddlers with ASD: Methodological and Conceptual Considerations	<b>Scientific Panel – Osgoode Ballroom East</b> Lullaby and Good Night or Tomorrow Is Gonna Be A Tough Day: Research Predictions for the Influence of Disturbed Sleep and What We Can Do	
5:00-6:00P	<b>Scientific Panel – Grand Ballroom East</b> Disrupted Neural Circuitry in Autism	<b>Scientific Panel – Grand Ballroom West</b> Challenges for Children with ASD in School: Teaching Strategies and Learning Outcomes	<b>Scientific Panel – Osgoode Ballroom East</b> Implications of DSM-5 Criteria for the Recognition of Autism Spectrum Disorders: Clinical and Epidemiological Considerations	

**Invited Educational Symposium**  
**134 - Progress, Pitfalls, and Potential of Postmortem Human Brain Research on Autism**  
 1:30 PM - 3:30 PM - Grand Ballroom Centre

*Session Chair: C. M. Schumann; UC Davis M.I.N.D. Institute*

Postmortem human brain tissue studies uniquely span multiple disciplines, including neuroanatomy, neurochemistry, molecular biology and genetics; a single brain donation is often used for several programs in each of these fields around the world. Although autism research on postmortem human brain tissue is still in its infancy, a heightened emphasis on understanding the neurobiology of autism has led to a dramatic increase in progress over the last decade. As investigators from widely varying backgrounds enter this field in an attempt to uncover the neurobiological underpinnings of brain development in autism, they are often surprised by how little is known and frustrated by the modest amount of quality tissue available. Successfully uncovering consistent types of neuropathology of autism spectrum disorders will require the availability of more abundant, high-quality postmortem tissue, the application of modern neuroanatomical and genetic methodologies, and multidisciplinary collaborations. This topic is ideal for an educational symposium because it brings together experts at the top of their field from very different backgrounds, from neuropathology to genetics, to share one rare resource. This topic will therefore be of interest to a broad audience. We propose to have each of these experts provide insight into how postmortem human brain tissue, using methods from their respective fields, can lead to understanding the causes of, developing treatments for, and finding cures for autism spectrum disorders.

- 1:30 134.001 Progress in Understanding the Neurobiology of Autism. D. G. Amaral<sup>1</sup>, UC Davis M.I.N.D. Institute, Sacramento, CA
- 2:00 134.002 The Neurochemical Profile of Autism. G. J. Blatt<sup>1</sup>, Boston University School of Medicine, Boston, MA
- 2:30 134.003 Environmental Vulnerability and Oxidative Damage in Autism. J. James<sup>1</sup>, Arkansas Children’s Hospital Research Institute, Little Rock, AR
- 3:00 134.004 Gene Expression in the Central Nervous System in Autism. D. H. Geschwind<sup>1</sup>, University of California at Los Angeles, Los Angeles, CA

**Oral Sessions**  
**135 - Early Developmental Processes and Trajectories in ASD: Infant and Toddler Studies**  
 1:30 PM - 3:30 PM - Grand Ballroom East

- 1:30 135.001 Developmental Differences At 6 and 12 Months Associated with ASD Outcomes in a High-Risk Infant Cohort. L. Zwaigenbaum<sup>1</sup>, A. M. Estes<sup>2</sup>, H. Gu<sup>3</sup>, J. T. Elison<sup>4,5</sup>, S. Paterson<sup>6</sup>, K. Botteron<sup>7</sup>, H. C. Hazlett<sup>8</sup>, J. Piven<sup>9,10</sup> and I. B. I. S. Network<sup>11</sup>, (1)University of Alberta, Edmonton, AB, Canada, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA, (3)University of North Carolina, Chapel Hill, NC, (4)University of North Carolina, Chapel Hill, NC, (5)California Institute of Technology, Pasadena, CA, (6)Center for Autism Research, Children’s Hospital of Philadelphia, Philadelphia, PA, (7)Washington University



School of Medicine, St. Louis, MO, (8)Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (9)Psychiatry, University of North Carolina, Chapel Hill, NC, (10)The Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (11)Autism Center of Excellence, Chapel Hill, NC

- 1:45 135.002 The Attunement of Visual Salience From 2 until 24 Months in TD and ASD Infants. J. D. Jones<sup>1</sup>, A. Klin and W. Jones, Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA
- 2:00 135.003 "Sticky Attention" in Autism: Children Who Fail to Disengage Show Greater Symptoms and More Impaired Social Attention and Intersensory Processing. L. E. Bahrick<sup>1</sup>, J. T. Todd, J. Vasquez and B. Yusko, Psychology, Florida International University, Miami, FL
- 2:15 135.004 Developmental Trajectories of Attention to Social and Nonsocial Events As a Function of Chronological and Mental Age in Children with Autism and Typical Development. J. T. Todd<sup>1</sup>, L. E. Bahrick, J. Vasquez and B. Yusko, Psychology, Florida International University, Miami, FL
- 2:30 135.005 ASD Toddlers Present Deficits in Their Ability to Track Social Cues of Others. E. B. Gisin<sup>1</sup>, A. Dowd<sup>2</sup>, G. M. Chen<sup>2</sup>, F. Shic<sup>2</sup> and K. Chawarska<sup>2</sup>, (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:45 135.006 Measuring Interactive Developmental Pathways in ASD: A Dual-Domain Latent Growth Curve Model. T. Bennett<sup>1</sup>, P. Szatmari<sup>1</sup>, S. Hanna<sup>2</sup>, M. Janus<sup>1</sup>, E. Duku<sup>3</sup>, S. Georgiades<sup>1</sup>, S. E. Bryson<sup>4</sup>, E. Fombonne<sup>5</sup>, P. Mirenda<sup>6</sup>, W. Roberts<sup>7</sup>, I. M. Smith<sup>4</sup>, T. Vaillancourt<sup>8</sup>, J. Volden<sup>9</sup>, C. Waddell<sup>10</sup>, L. Zwaigenbaum<sup>9</sup> and A. Thompson<sup>1</sup>, (1)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (2)CANChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada, (3)Room 203, Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (4)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (5)Psychiatry, McGill University, Montreal, QC, Canada, (6)University of British Columbia, Vancouver, BC, Canada, (7)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (8)University of Ottawa, Ottawa, ON, Canada, (9)University of Alberta, Edmonton, AB, Canada, (10)Simon Fraser University, Vancouver, BC, Canada
- 3:00 135.007 Unique Acoustic Characteristics of Children with Autism and Their Caregivers: A Comparison with Language Delayed and Typically Developing Counterparts. D. Xu<sup>1</sup>, J. Gilkerson<sup>1</sup>, J. A. Richards<sup>1</sup> and S. Rosenberg<sup>2</sup>, (1)LENA Research Foundation, Boulder, CO, (2)University of Colorado Denver, Aurora, CO
- 3:15 135.008 Motor Development and Its Relation to Cognitive and Language Development in Young Children At High Risk for ASD. R. J. Landa<sup>1</sup>, Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD; Johns Hopkins School of Medicine, Baltimore, MD

Oral Sessions

136 - Core Symptoms

1:30 PM - 3:30 PM - Grand Ballroom West

- 1:30 136.001 Developmental Course of Symptom Severity in Preschool Children with ASD. P. Szatmari<sup>1</sup>, S. Georgiades<sup>1</sup>, E. Duku<sup>1</sup>, A. Thompson<sup>1</sup>, S. E. Bryson<sup>2</sup>, E. Fombonne<sup>3</sup>, P. Mirenda<sup>4</sup>, W. Roberts<sup>5,6</sup>, I. M. Smith<sup>2</sup>, T. Vaillancourt<sup>7</sup>, J. Volden<sup>8</sup>, C. Waddell<sup>9</sup> and L. Zwaigenbaum<sup>8</sup>, (1)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (2)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (3)Montreal Children's Hospital, Montreal, QC, Canada, (4)University of British Columbia, Vancouver, BC, Canada, (5)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (6)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)University of Alberta, Edmonton, AB, Canada, (9)Simon Fraser University, Vancouver, BC, Canada
- 1:45 136.002 Assessment of Social Communication in Infants At High Risk for Autism Spectrum Disorders: A Comparison of Contexts. M. V. Paradé<sup>1</sup> and J. M. Iverson, University of Pittsburgh, Pittsburgh, PA
- 2:00 136.003 Profiles of Sensory Processing in Children At High and Low Genetic Risk for ASD. M. Levine<sup>1</sup>, K. Caravella<sup>2</sup>, Y. Stern<sup>3</sup> and C. A. Saulnier<sup>4</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA, (3)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 2:15 136.004 Longitudinal Associations Between An Eye-Tracking Measure of Social Responsiveness and Social Symptoms. K. Gillespie-Lynch<sup>1</sup>, M. Sigman<sup>2</sup>, S. P. Johnson<sup>3</sup> and T. Hutman<sup>4</sup>, (1)Psychology, UCLA, Los Angeles, CA, (2)University of California, Los Angeles, CA, (3)University of California, Los Angeles, CA, (4)Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA
- 2:30 136.005 Emotion Recognition in Autism Spectrum Disorder (ASD) and Attention Deficit Hyperactivity Disorder (ADHD): An Analysis of Dimensional Constructs of the Phenotype and Their Co-Occurrence. K. L. Ashwood<sup>1</sup>, B. Azadi<sup>1</sup>, S. Cartwright<sup>1</sup>, P. Asherson<sup>2</sup> and P. F. Bolton<sup>3</sup>, (1)Child and Adolescent Psychiatry, Institute of Psychiatry, Kings College, London, United Kingdom, (2)MRC Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, Kings College, London, United Kingdom, (3)Child and Adolescent Psychiatry, Institute of Psychiatry, London, United Kingdom

- 2:45 136.006 Respiratory Sinus Arrhythmia in Children with ASD: A Biomarker for Positive Functioning. M. Patriquin<sup>1</sup>, A. Scarpa<sup>1</sup>, B. H. Friedman<sup>1</sup> and S. W. Porges<sup>2</sup>, (1)Department of Psychology, Virginia Tech, Blacksburg, VA, (2)Department of Psychiatry, University of Illinois at Chicago, Chicago, IL
- 3:00 136.007 Respiratory Sinus Arrhythmia and Facial Electromyography in Children with ASD. E. Bal<sup>1</sup>, E. Harden<sup>2</sup>, A. V. Van Hecke<sup>3</sup>, D. Lamb<sup>4</sup> and S. W. Porges<sup>5</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)University of Illinois at Chicago, Chicago, IL, (3)Psychology, Marquette University, Milwaukee, WI, (4)Emory University, Atlanta, GA, (5)Department of Psychiatry, University of Illinois at Chicago, Chicago, IL
- 3:15 136.008 Language Profiles of Individuals with a History of ASD Who Have Optimal Outcomes. K. E. Tyson<sup>1</sup>, E. Troyb<sup>2</sup>, A. Orinstein<sup>2</sup>, L. Best<sup>3</sup>, M. Helt<sup>3</sup>, I. M. Eigsti<sup>4</sup>, M. Barton<sup>2</sup>, L. Naigles<sup>2</sup>, E. A. Kelley<sup>5</sup>, M. A. Rosenthal<sup>6</sup>, M. C. Stevens<sup>7</sup>, R. T. Schultz<sup>8</sup> and D. A. Fein<sup>2</sup>, (1)Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT, (3)Psychology, Queen's University, Kingston, ON, Canada, (4)University of Connecticut, Storrs, CT, (5)Department of Psychology, Queen's University, Kingston, ON, Canada, (6)Children's National Medical Center, Center for Autism Spectrum Disorders, Bethesda, MD, (7)The Institute of Living, Hartford Hospital/Yale University, Hartford, CT, United States, (8)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 1:45 137.002 Shared Decision-making (SDM) and the Treatment of Autism Spectrum Disorders (ASDs). S. E. Levy<sup>1</sup>, S. Colantonio<sup>2</sup>, H. Reed<sup>2</sup>, G. Stein<sup>3</sup>, V. McGoldrick<sup>4</sup>, D. S. Mandell<sup>5,6</sup> and A. G. Fiks<sup>7</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Center for Autism Research, Philadelphia, PA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, (6)Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA, (7)Pediatrics, Children's Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA
- 2:00 137.003 Prevalence and Consequences of Elopement in Autism Spectrum Disorders. P. A. Law<sup>1</sup>, J. K. Law<sup>1</sup>, C. M. Anderson<sup>1</sup>, A. M. Daniels<sup>2</sup> and D. S. Mandell<sup>3,4</sup>, (1)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA, (4)Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA
- 2:15 137.004 Polypharmacy Profiles and Predictors Among Adults with Autism Spectrum Disorders. J. K. Lake<sup>1,2</sup>, Y. Lunskey<sup>1</sup> and K. Azimi<sup>1,2</sup>, (1)Centre for Addiction and Mental Health, Toronto, ON, Canada, (2)Psychiatry, University of Toronto, Toronto, ON, Canada
- 2:30 137.005 The Impact of a Student's Diagnosis of Autism Spectrum Disorder on General Education Teachers' Attitudes. L. Hiruma<sup>1</sup>, K. V. Christodulu and M. L. Rinaldi, Center for Autism and Related Disabilities, University at Albany, SUNY, Albany, NY
- 2:45 137.006 Spotting Autism in Early Childcare Settings (SPAECES): Workshops to Increase Knowledge and Confidence in Autism for Early Childcare Workers. M. Lopez<sup>1</sup>, J. Bellando<sup>1,2</sup>, C. Lloyd<sup>3</sup> and Z. Fetterman<sup>2</sup>, (1)University of Arkansas for Medical Sciences, Little Rock, AR, (2)Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR, (3)Social Work, University of Arkansas at Little Rock, Little Rock, AR
- 3:00 137.007 Lack of Correspondence Between Self- and Parent-Report on Structured Psychiatric Interviews of Adolescents with High-Functioning Autism Spectrum Disorders. C. A. Mazefsky<sup>1</sup>, A. J. Hughes<sup>2</sup>, D. P. Oswald<sup>3</sup> and J. E. Lainhart<sup>4</sup>, (1)3811 O'Hara, University of Pittsburgh, Pittsburgh, PA, (2)University of Pittsburgh, Pittsburgh, PA, (3)Commonwealth Autism Service, Richmond, VA, (4)Interdepartmental Program in Neuroscience, University of Utah, Salt Lake City, UT
- 3:15 137.008 'How Has This Child Affected Your Life?': Parents' Reports on the Impact of ASD. F. K. Miller<sup>1</sup>, C. B. Sorensen<sup>2</sup> and L. R. Kowalski<sup>2</sup>, (1)University of Michigan, Ann Arbor, MI, (2)Center for Human Growth and Development, University of Michigan, Ann Arbor, MI

**Oral Sessions**

**137 - Stakeholder Experience**

1:30 PM - 3:30 PM - Osgoode Ballroom East

- 1:30 137.001 Beyond ASD: Developmental Outcomes of High Risk Siblings. D. S. Messinger<sup>1</sup>, G. S. Young<sup>2</sup>, S. Ozonoff<sup>2</sup>, L. Zwaigenbaum<sup>3</sup>, K. R. Dobkins<sup>4</sup>, A. S. Carter<sup>5</sup>, T. Charman<sup>6</sup>, R. J. Landa<sup>7</sup>, M. S. Strauss<sup>8</sup>, J. N. Constantino<sup>9</sup>, S. E. Bryson<sup>10</sup>, L. J. Carver<sup>4</sup>, T. Hutman<sup>11</sup>, J. M. Iverson<sup>12</sup>, S. J. Rogers<sup>2</sup>, M. Sigman<sup>13</sup>, W. L. Stone<sup>14</sup> and Z. Warren<sup>15</sup>, (1)University of Miami, Coral Gables, FL, (2)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, (3)University of Alberta, Edmonton, AB, Canada, (4)University of California, San Diego, La Jolla, CA, (5)University of Massachusetts Boston, Boston, MA, (6)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (7)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (8)Psychology, University of Pittsburgh, Pittsburgh, PA, (9)Washington University School of Medicine, Saint Louis, MO, (10)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (11)University of California, Los Angeles, CA, (12)University of Pittsburgh, Pittsburgh, PA, (13)University of California, Los Angeles, CA, (14)University of Washington, Seattle, WA, (15)Vanderbilt University, Nashville, TN

Poster Sessions

138 - Cognition and Behavior I

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 1 138.001 Neglected Dimension: Regulation of Affect and Attention in Toddlers with ASD. J. Koller<sup>1</sup>, K. Chawarska and S. Macari, Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:00 2 138.002 An Eye Tracking Study of Rapid Automatized Naming Ability in Adult Siblings of Individuals with ASD. A. H. Hogan-Brown<sup>1</sup>, K. M. Lynn, B. D. Kravis, B. B. Thomas and M. Losh, The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL
- 3:00 3 138.003 Competence Syntactic-Semantic Ambiguity Test in Children with Autism and Specific Language Impairment. A. C. Tamanaha<sup>1</sup>, S. M. Isotani<sup>2</sup>, M. Ishihara<sup>2</sup>, A. E. Chaves<sup>3</sup>, M. Bevilacqua<sup>4</sup>, R. C. Nascimbeni<sup>2</sup>, A. Fiori<sup>2</sup>, M. C. Rosario<sup>2</sup> and J. Perissinoto<sup>5</sup>, (1)São Paulo, (2)UNIFESP, São Paulo, Brazil, (3)UNIFESP, São Paulo, Brazil, (4)UNIFESP, São Paulo, Brazil, (5)Universidade Federal de Sao Paulo, São Paulo, Brazil
- 1:00 4 138.004 EEG Mu Wave Attenuation in Broader Phenotype ASD. E. Massand<sup>1</sup>, B. Aaronson<sup>1</sup>, R. T. Lowy<sup>2</sup>, S. J. Webb<sup>1</sup>, E. M. Wijsman<sup>2</sup> and R. Bernier<sup>1</sup>, (1)University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA
- 2:00 5 138.005 Eye-Tracking Established As a Reliable Test-Retest Measure in Adolescents with ASD: Visual Attention to Social and Non-Social Stimuli. M. H. McDermott<sup>1</sup>, H. W. Kang<sup>1</sup>, J. Parish-Morris<sup>2</sup>, C. Chevallier<sup>1</sup>, J. C. Bush<sup>1</sup> and R. T. Schultz<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA
- 3:00 6 138.006 The Use of Prosodic and Syntactic Cues to Understand Intent in Discourse by Children with Autism Spectrum Disorders. S. L. Mazur<sup>1</sup>, J. J. Diehl<sup>2</sup> and L. Bennetto<sup>3</sup>, (1)Department of Psychology, University of Notre Dame, Notre Dame, IN, (2)Psychology, University of Notre Dame, Notre Dame, IN, (3)University of Rochester, Rochester, NY
- 1:00 7 138.007 Cue-Driven Face Scanning in Typical and Atypical Development. R. Bedford<sup>1</sup>, M. Elsabbagh<sup>2</sup>, A. Senju<sup>2</sup>, T. Charman<sup>1</sup>, A. Pickles<sup>3</sup>, M. H. Johnson<sup>4</sup> and BASIS team<sup>2</sup>, (1)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (2)Centre for Brain and Cognitive Development, Birkbeck, London, United Kingdom, (3)Institute of Psychiatry, King's College, London, United Kingdom, (4)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom
- 2:00 8 138.008 Eye-Tracking Measures of Reading Comprehension and Autistic Traits. N. J. Caruana and J. Brock<sup>1</sup>, Centre for Cognition and its Disorders, Macquarie University, Sydney, Australia
- 3:00 9 138.009 Non-Specificity of Theory of Mind in Children with and without Autism Spectrum Disorder (ASD): Evidence From a New Non-Verbal False Sign Task. L. S. Iao<sup>1</sup> and S. R. Leekam<sup>2</sup>, (1)University of Hong Kong, Hong Kong, (2)Park Place, Cardiff University, Cardiff, Wales
- 1:00 10 138.010 An Investigation of Jumping to Conclusions in Asperger Syndrome. C. Jansch and D. Hare<sup>1</sup>, Division of Clinical Psychology, University of Manchester, Manchester, United Kingdom
- 2:00 11 138.011 Awareness but Avoidance: Gaze Behaviour in Adolescents with ASD Versus Controls. S. C. Louwerse<sup>1</sup>, J. N. van der Geest<sup>2</sup>, J. H. Tulen<sup>3</sup>, F. C. Verhulst<sup>4</sup> and K. Greaves-Lord<sup>4,5</sup>, (1)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC – Sophia's Children's Hospital, Rotterdam, Netherlands, (2)Neuroscience, Erasmus MC, Rotterdam, Netherlands, (3)Psychiatry, Erasmus MC, Rotterdam, Netherlands, (4)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC – Sophia's Children's Hospital, Rotterdam, Netherlands, (5)Yulius, Rotterdam, Netherlands
- 3:00 12 138.012 When Cartoon Differ From Real Faces: Affective Priming in Children with High-Functioning Autism. D. Rosset<sup>1,2</sup>, D. Da Fonseca<sup>1,2</sup>, M. Picut<sup>1,2</sup>, M. Viellard<sup>1,2</sup>, T. Krouch<sup>2</sup>, F. Poinso<sup>1,2</sup> and C. Deruelle<sup>1</sup>, (1)Neurosciences Institute of La Timone, Marseille, France, (2)Autism Ressource Center, Marseille, France
- 1:00 13 138.013 Negative Versus Positive Emotion Identification in Children with Autism Spectrum Disorders. J. Lorenzi<sup>1</sup>, K. F. Ostmeier-Kountzman and A. Scarpa, Psychology, Virginia Tech, Blacksburg, VA
- 2:00 14 138.014 Spontaneous Facial Emotion Discrimination in Individuals with Autism Spectrum Disorders and Fragile X Syndrome. H. R. Mace<sup>1</sup>, J. Moss<sup>1</sup>, C. Oliver<sup>1</sup>, G. Anderson<sup>2</sup> and J. McCleery<sup>2</sup>, (1)Cerebra Centre for Neurodevelopmental Disorders, University of Birmingham, Birmingham, United Kingdom, (2)University of Birmingham, Birmingham, United Kingdom
- 3:00 15 138.015 Individuals with Autism Exhibit Reduced Sensitivity to Infant Cuteness. N. J. Sasson<sup>1</sup>, D. J. Faso<sup>1</sup>, D. D. Langleben<sup>2</sup> and R. C. Gur<sup>2</sup>, (1)University of Texas at Dallas, Richardson, TX, (2)University of Pennsylvania, Philadelphia, PA
- 1:00 16 138.016 Alignment of Induced EEG Oscillations Improves Analysis of Autism and ADHD Responses in Facial Categorization Task. E. R. Gross<sup>1</sup>, A. S. El-Baz<sup>1</sup>, G. Sokhadze<sup>2</sup>, L. L. Sears<sup>3</sup>, M. F. Casanova<sup>4</sup> and E. M. Sokhadze<sup>4</sup>, (1)Bioengineering, University of Louisville, Louisville, KY, (2)Psychology & Brain Sciences, University of Louisville, Louisville, KY, (3)Pediatrics, University of Louisville, Louisville, KY, (4)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY
- 2:00 ▶ 17 138.017 Distribution of Autistic Traits in a Taiwanese Population of Children Aged 6-8 Years. C. L. Chang<sup>1</sup>, L. C. Lee<sup>2</sup>, R. A. Harrington<sup>2</sup>, I. T. Li<sup>3</sup>, P. C. Tsai<sup>2</sup>, P. Yang<sup>4</sup> and F. W. Lung<sup>5</sup>, (1)Psychiatry, Kaohsiung Armed Forces General Hospital, Kaohsiung, Taiwan, (2)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Calo Hospital, Pingtung, Taiwan, (4)Psychiatry, Kaohsiung Medical University, Kaohsiung, Taiwan, (5)Taipei City Psychiatric Center, Taipei City Hospital, Taipei, Taiwan



- 3:00 18 138.018 Dr. M. W. Wan<sup>1</sup>, University of Manchester, Manchester, United Kingdom
- 1:00 19 138.019 Did You See That Change? A Study of Dyspraxia, Eye Movement and Visual Perception in Autism. L. Chukoskie<sup>1</sup>, M. Miller<sup>2</sup>, C. Kanan<sup>3</sup>, M. Dorai<sup>4</sup>, J. Townsend<sup>5</sup> and D. Trauner<sup>6</sup>, (1)Institute for Neural Computation, UCSD, La Jolla, CA, (2)Department of Medicine, UCSD, La Jolla, CA, (3)Computer Science, UCSD, La Jolla, CA, (4)Cognitive Science, UCSD, La Jolla, CA, (5)Neurosciences, University of California, San Diego, CA, (6)Neurosciences, University of California, San Diego, La Jolla, CA
- 2:00 20 138.020 Emotional Understanding in Children with and without Autism Spectrum Disorder. S. M. Merwin<sup>1</sup>, P. A. Rao<sup>2</sup> and R. J. Landa<sup>3,4</sup>, (1)Center for Autism & Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (4)Johns Hopkins School of Medicine, Baltimore, MD
- 3:00 21 138.021 Infant Siblings At Risk for ASD: Directed and Non-Directed Gesture Use in Infants and Related Maternal Communication Behaviours. S. Mitchell<sup>1,2</sup>, W. Roberts<sup>3,4</sup>, J. A. Brian<sup>1,5</sup> and L. Zwaigenbaum<sup>6</sup>, (1)Hospital for Sick Children, Toronto, ON, Canada, (2)Speech-Language Pathology, University of Toronto, Toronto, ON, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (5)Bloorview Research Institute, Toronto, ON, Canada, (6)University of Alberta, Edmonton, AB, Canada
- 1:00 22 138.022 Group Differences in Feature Scanning While Learning Novel Faces. J. A. Walsh<sup>1</sup> and M. D. Rutherford, Psychology, Neuroscience and Behaviour, McMaster University, Hamilton, ON, Canada
- 2:00 23 138.023 Manipulation of Physical Contingencies Induces Change in Visual Scanning of Natural Scenes in Infants with ASD Relative to Typically Developing Infants. A. Trubanova<sup>1</sup>, J. B. Northrup<sup>2</sup>, D. Lin<sup>3</sup>, A. Klin<sup>1</sup>, W. Jones<sup>1</sup> and G. Ramsay<sup>1</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)University of Pittsburgh, Pittsburgh, PA, (3)Harvard Medical School, Boston, MA
- 3:00 24 138.024 Parent-Child Interaction Quality and Empathy in Toddlers At Risk for An ASD. N. M. McDonald<sup>1</sup>, H. Gordon<sup>1</sup>, J. K. Baker<sup>2</sup> and D. S. Messinger<sup>1</sup>, (1)Psychology, University of Miami, Coral Gables, FL, (2)College of Health and Human Development, California State University, Fullerton, CA
- 1:00 25 138.025 Parsing Heterogeneity in Autism Spectrum Disorders Using Measures of Dynamic Visual Scanning. J. M. Moriuchi<sup>1</sup>, K. A. Rice<sup>2</sup>, W. Jones<sup>1</sup> and A. Klin<sup>1</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)Department of Psychology, University of Maryland, College Park, MD
- 2:00 26 138.026 Inferring the Facial Expression From the Social Context in Children with Autism Spectrum Disorders. S. Matsuda<sup>1</sup> and J. Yamamoto, Department of Psychology, Keio University, Tokyo, Japan
- 3:00 27 138.027 Direct Evidence for Configural Face Processing in ASD: Use of a Gaze-Contingent Stimulus Presentation. J. Steyaert<sup>1,2,3</sup>, K. Evers<sup>1,3,4</sup>, G. Van Belle<sup>4,5</sup>, I. L. J. Noens<sup>1,6,7</sup> and J. Wagemans<sup>1,4</sup>, (1)Leuven Autism Research, K.U. Leuven, Leuven, Belgium, (2)Clinical Genetics, University Hospital Maastricht, Maastricht, Netherlands, (3)Child Psychiatry, Department of Neurosciences, K.U. Leuven, Leuven, Belgium, (4)Laboratory of Experimental Psychology, K.U. Leuven, Leuven, Belgium, (5)Institute of research in Psychology (IPSY); Institute of Neuroscience (IoNS); Center for Cognitive and Systems Neuroscience, University of Louvain La Neuve (UCL), Louvain- La-Neuve, Belgium, (6)Parenting and Special Education Research Unit, K.U.Leuven, Leuven, Belgium, (7)Psychiatric and Neurodevelopmental Genetics Unit, Massachusetts General Hospital, Boston, MA
- 1:00 28 138.028 What Engages Children with Autism Spectrum Disorders When Viewing Naturalistic Social Scenes?. S. Shultz<sup>1</sup>, A. Klin<sup>2</sup> and W. Jones<sup>2</sup>, (1)Yale University, New Haven, CT, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA
- 2:00 29 138.029 Combining Viewing Patterns and Socio-Emotional Insight Questions in Dynamic Social Scenes in Children with Autism Spectrum Disorder (ASD). K. Evers<sup>1,2,3</sup>, F. Hermens<sup>1</sup>, I. L. J. Noens<sup>2,4,5</sup>, J. Steyaert<sup>2,3,6</sup> and J. Wagemans<sup>1,2</sup>, (1)Laboratory of Experimental Psychology, K.U. Leuven, Leuven, Belgium, (2)Leuven Autism Research, K.U. Leuven, Leuven, Belgium, (3)Child Psychiatry, Department of Neurosciences, K.U. Leuven, Leuven, Belgium, (4)Parenting and Special Education Research Unit, K.U.Leuven, Leuven, Belgium, (5)Psychiatric and Neurodevelopmental Genetics Unit, Massachusetts General Hospital, Boston, MA, United Kingdom, (6)Clinical Genetics, University Hospital Maastricht, Maastricht, Netherlands
- 3:00 30 138.030 Local and Global Processing and the Effect of Context on Emotional Expression and Object Recognition in High Functioning Adolescents with ASD. D. Ben-Yosef<sup>1</sup>, D. Anaki<sup>1,2</sup> and O. Golan<sup>1</sup>, (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Gonda Multidisciplinary Brain Center, Bar-Ilan University, Ramat-Gan, Israel
- 1:00 31 138.031 Attention Capture by and Preference for Faces with Direct Gaze in Toddlers with ASD, DD, and TD. K. O'Loughlin<sup>1</sup>, S. Macari, F. Shic and K. Chawarska, Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:00 32 138.032 Spontaneous Gaze Following within a Naturalistic Social Situation in Children and Adolescents with Autism Spectrum Disorders. E. Birmingham<sup>1</sup>, K. H. Johnston<sup>2</sup>, T. Foulsham<sup>3</sup>, B. Laryant<sup>4</sup>, A. Stemer<sup>2</sup>, A. Kingstone<sup>5</sup> and G. Iarocci<sup>2</sup>, (1)Faculty of Education, Simon Fraser University, Burnaby, BC, Canada, (2)Psychology, Simon Fraser University, Burnaby, BC, Canada, (3)Psychology, University of Essex, Essex, United Kingdom, (4)Faculty of Education, University of British Columbia, Vancouver, BC, Canada, (5)Psychology, University of British Columbia, Vancouver, BC, Canada

- 3:00 33 138.033 Viewing Patterns of Naturalistic Scenes Differ Between Typically Developing Children and Those with Autism Spectrum Disorders in the Second Year of Life. P. Lewis<sup>1</sup>, S. Habayeb, T. Tsang, W. Jones and A. Klin, Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA
- 1:00 34 138.034 Special Interests in Adults with Autism and Their Potential for Employment. J. C. Kirchner<sup>1,2</sup>, S. Dern<sup>2</sup>, D. Müller-Remus<sup>2</sup> and I. Dziobek<sup>1</sup>, (1)Cluster of Excellence "Languages of Emotion", Freie Universität Berlin, Berlin, Germany, (2)Auticon, Berlin, Germany
- 2:00 35 138.035 Too Much, Too Little, Too Late: Structure of Personal Narratives of Emerging Adults With and Without Autism Spectrum Disorder. A. McCabe<sup>1</sup>, A. Hillier<sup>1</sup> and C. Shapiro<sup>2</sup>, (1)Psychology, University of Massachusetts Lowell, Lowell, MA, (2)University of Massachusetts Lowell, Lowell, MA
- 1:00 42 139.042 Gender Differences in Theory of Mind and Its Impact on Social Skills. R. M. Hiller<sup>1</sup>, N. Weber and R. L. Young, School of Psychology, Flinders University of South Australia, Adelaide, Australia
- 2:00 43 139.043 Measuring Play Constructs Across Measures in Young Children with ASD: Context Matters. J. M. Pierucci<sup>1</sup>, A. B. Barber<sup>1</sup>, M. E. Crisler<sup>2</sup>, M. K. DeRamus<sup>3</sup> and L. G. Klinger<sup>4</sup>, (1)University of Alabama – ASD Clinic, Tuscaloosa, AL, (2)University of Alabama, Tuscaloosa, AL, (3)Autism Spectrum Disorders Clinic, University of Alabama, Tuscaloosa, AL, United States, (4)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC
- 3:00 44 139.044 Drawing Out Inner Feelings: Visual Expression and Recognition of Emotions in Drawings by Children with ASD. J. C. P. Longard<sup>1</sup>, S. E. Bryson<sup>2</sup> and I. Gericke<sup>3</sup>, (1)Psychology, Dalhousie University, Halifax, NS, Canada, (2)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (3)Creative Arts Therapies, Concordia University, Montreal, QC, Canada
- 1:00 45 139.045 Future Thinking, Theory of Mind, and Executive Function in Children with Autism. L. K. Hanson and C. M. Atance, Psychology, University of Ottawa, Ottawa, ON, Canada
- 2:00 46 139.046 Facial Emotion Recognition and Gender Categorization Abilities As Predictors of Social Functioning in Adults with High-Functioning Autism. L. Sperle<sup>1</sup>, C. A. A. Best<sup>2</sup>, K. Rump<sup>3</sup>, H. Z. Gastgeb<sup>4</sup> and M. S. Strauss<sup>1</sup>, (1)University of Pittsburgh, Pittsburgh, PA, (2)University of Pittsburgh, University of Pittsburgh, Pittsburgh, PA, United States, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)University of Pittsburgh, Pittsburgh, PA
- 3:00 47 139.047 Social Orientation Among School-Age Children with Autism. J. A. Hobson<sup>1</sup>, P. Hobson<sup>2</sup>, R. Edey<sup>3</sup>, R. Hithersay<sup>4</sup> and C. S. Mich<sup>5</sup>, (1)Institute of Child Health, UCL, London, United Kingdom, (2)Institute of Child Health, University College London and Tavistock Clinic, London, London, United Kingdom, (3)Institute of Child Health, London, United Kingdom, (4)University College London, London, United Kingdom, (5)Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

Poster Sessions

139 - Cognition and Behavior II

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 36 139.036 Children with ASD Do Not Benefit From Being Oriented to the Most Informative Part of the Face When Classifying Emotions. L. Whitaker<sup>1</sup>, C. Jones<sup>2</sup> and D. Roberson<sup>3</sup>, (1)Department of Psychology, University of Essex, Essex, United Kingdom, (2)Department of Psychology, University of Essex, Colchester, United Kingdom, (3)Department of Psychology, University of Essex, Colchester, United Kingdom
- 2:00 37 139.037 Evidence That the Local Processing Bias in Autism Is Modulated by the Social Deficits. S. N. Russell-Smith<sup>1</sup>, M. T. Maybery and D. M. Bayliss, School of Psychology, University of Western Australia, Perth, Australia
- 3:00 38 139.038 Bullying and Victimization In Children with ASD; The Mediating Role of Basic and Moral Emotions. C. Rieffe<sup>1</sup>, M. Camodeca<sup>2</sup>, L. B. Pouw<sup>1</sup>, A. Lange<sup>1</sup> and L. Stockmann<sup>3</sup>, (1)Developmental Psychology, Leiden University, Leiden, Netherlands, (2)Department of Neurosciences and Imaging, University of Chieti, Chieti, Italy, (3)Center for Autism, Leiden, Netherlands
- 1:00 39 139.039 The Effect of Perspective and Training on Imitation in Autism. E. Gowen<sup>1</sup>, K. S. Wild<sup>2</sup> and E. Poliakoff<sup>3</sup>, (1)Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom, (2) National Institute of Health Research, Mental Health Research Network, Manchester, United Kingdom, (3)School of Psychological Sciences, University of Manchester, Manchester, United Kingdom
- 2:00 ▶ 40 139.040 Perception and Discrimination of Emotional Faces in Children with Autism Spectrum Disorders. C. Wang<sup>1</sup> and M. Jiang, Center for Behavioural Science, School of Medicine, Nankai University, Tianjin, China
- 3:00 41 139.041 Play and Emotional Availability in Mother-Child Interaction with ASD Children. A. Bentenuto<sup>1</sup>, S. De Falco<sup>2</sup>, G. Esposito<sup>2</sup>, M. H. Bornstein<sup>3</sup> and P. Venuti<sup>2</sup>, (1)University of Trento, Rovereto, Italy, (2)University of Trento, Trento, Italy, (3)NIHCD, Bethesda, MD
- 1:00 48 139.048 Visual Processing Strategies Used for Face Perception in School-Aged Autistic Children. J. Guy<sup>1,2,3</sup>, K. Morin<sup>1,4</sup>, C. Habak<sup>5</sup>, H. R. Wilson<sup>6</sup>, L. Mottron<sup>3</sup> and A. Bertone<sup>1,3,7</sup>, (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)Integrated Program in Neuroscience, McGill University, Montreal, QC, Canada, (3)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (4)School of Psychoeducation, University of Montreal, Montreal, QC, Canada, (5)Visual Perception and Psychophysics Lab, Université de Montréal, and Centre de Recherche, Institut Universitaire de Gériatrie de Montréal, Montreal, QC, Canada, (6)Biological & Computational Vision, Toronto, ON, Canada, (7)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada

- 2:00 49 139.049 Nonverbal Communication in Children with Autism Spectrum Disorders Interacting with Their Mothers: The Importance of An Accurate Analysis of Gestural Production. M. Mastrogiuseppe<sup>1</sup>, O. Capirci<sup>2</sup>, S. Cuva<sup>1</sup> and P. Venuti<sup>1</sup>, (1)University of Trento, Trento, Italy, (2)Institute of Cognitive Sciences and Technologies (ISTC), CNR, Rome, Italy
- 3:00 50 139.050 Do Children with ASD Use Imitation to Acquire Negation Markers?. C. A. Navarro-Torres<sup>1</sup>, A. Tovar<sup>2</sup>, D. A. Fein<sup>3,4</sup> and L. Naigles<sup>3</sup>, (1)Psychology, University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT, (4)Department of Psychology, University of Connecticut, Storrs, CT
- 1:00 51 139.051 Visual Scanning of Familiar and Unfamiliar Faces in 12-Month-Olds Later Diagnosed with ASD. J. B. Wagner<sup>1</sup>, R. Luyster<sup>1</sup>, H. Tager-Flusberg<sup>2</sup> and C. A. Nelson<sup>1</sup>, (1)Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA, (2)Department of Psychology, Boston University, Boston, MA
- 2:00 52 139.052 Social Environment Influences on Mental State Understanding in Children with or without Autism. T. Gliga<sup>1</sup>, A. Senju<sup>2</sup>, T. Charman<sup>3</sup>, M. H. Johnson<sup>4</sup> and The BASIS Team<sup>5</sup>, (1)Birkbeck College, London, United Kingdom, (2)Birkbeck, University of London, London, United Kingdom, (3)Institute of Education, London, United Kingdom, (4)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom, (5)Birkbeck College University of London, London, United Kingdom
- 3:00 53 139.053 The Relationship Between Theory of Mind and Autobiographical Memory Retrieval. B. Dritschel<sup>1,2</sup>, G. Rajendran<sup>3</sup> and A. Jones<sup>4</sup>, (1)University of St. Andrews, St. Andrews, United Kingdom, (2)School of Psychology, University of St. Andrews, St. Andrews, United Kingdom, (3)University of Strathclyde, Glasgow, United Kingdom, (4)School of Psychology, University of St. Andrews, St. Andrews, United Kingdom
- 1:00 54 139.054 The Relationship Between Inhibition and Social Skills in Children with High Functioning Autism Spectrum Disorders. R. L. Matchulis<sup>1</sup>, A. McCrimmon, K. Jitlina and A. A. Altomare, University of Calgary, Calgary, AB, Canada
- 2:00 55 139.055 Face Processing and Its Correlation to Theory of Mind in Autism Spectrum Disorders. J. C. Bush<sup>1</sup>, C. Chevallier<sup>1</sup>, K. Rump<sup>1</sup>, J. Parish-Morris<sup>2</sup> and R. T. Schultz<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA
- 3:00 56 139.056 Friendship Networks and Social Inclusion in Young People with Autism. L. Calder<sup>1</sup>, V. Hill<sup>2</sup> and E. Pellicano<sup>3</sup>, (1)Children and Young People's Service, Haringey Council, London, United Kingdom, (2)Department of Psychology and Human Development, Institute of Education, London, United Kingdom, (3)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom
- 1:00 57 139.057 The Emergence of Imitation: Preliminary Findings From a Prospective Study of Younger Siblings of Children with Autistic Spectrum Disorders. A. Boudreau<sup>1</sup>, I. M. Smith<sup>2</sup>, J. Brian<sup>3</sup>, S. E. Bryson<sup>2</sup>, N. Garon<sup>4</sup>, W. Roberts<sup>5</sup>, C. Roncadin<sup>6</sup>, P. Szatmari<sup>7</sup> and L. Zwaigenbaum<sup>8</sup>, (1)Dalhousie University, Halifax, NS, Canada, (2)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Mount Allison University, Sackville, NB, Canada, (5)University of Toronto, Toronto, ON, Canada, (6)Peel Children's Centre, Mississauga, ON, Canada, (7)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (8)University of Alberta, Edmonton, AB, Canada
- 2:00 58 139.058 Social Cognition and Emotion in Autism and Personality Disorders: A Functional Perspective. J. C. L. M. Duijkers<sup>1,2</sup>, C. T. W. M. Vissers<sup>1,3</sup>, W. J. Verbeek<sup>4</sup>, A. Arntz<sup>5</sup> and J. I. M. Egger<sup>1,3,6</sup>, (1)Centre of Excellence for Neuropsychiatry, Vincent van Gogh Institute for Psychiatry, Venray, Netherlands, (2)Division for Addiction, Vincent van Gogh Institute for Psychiatry, Venray, Netherlands, (3)Donders Institute for Brain, Cognition and Behaviour, Centre for Cognition, Radboud University Nijmegen, Nijmegen, Netherlands, (4)Centre for Autism and ADHD, Vincent van Gogh Institute for Psychiatry, Venray, Netherlands, (5)Maastricht University, Maastricht, Netherlands, (6)Behavioural Science Institute, Radboud University, Nijmegen, Netherlands
- 3:00 59 139.059 Psychometric Analysis of the Empathy Quotient (EQ). C. Allison<sup>1</sup>, S. Baron-Cohen<sup>1</sup>, S. Wheelwright<sup>2</sup>, M. H. Stone<sup>3</sup> and S. J. Muncer<sup>4</sup>, (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)University of Southampton, Southampton, United Kingdom, (3)Aurora University, Aurora, IL, (4)Teesside University, Middlesbrough, United Kingdom
- 1:00 60 139.060 Differences in Visual Field Preference In Emotion Recognition Between Children with Autism Spectrum Disorders and Typical Development. R. Hansen<sup>1</sup> and F. R. Ferraro<sup>2</sup>, (1)Grand Forks, ND, (2)University of North Dakota, Grand Forks, ND
- 2:00 ▶ 61 139.061 Expression of Autistic Traits and Attention to Social and Perceptual Context in South Asia: Culture Meets Biology. M. K. Belmonte<sup>1</sup>, S. Basu<sup>2</sup>, S. Nusrat<sup>3</sup> and J. Basu<sup>3</sup>, (1)National Brain Research Centre, Manesar, India, (2)S.N. Pradhan Centre for Neurosciences, University of Calcutta, Kolkata, India, (3)Applied Psychology, University of Calcutta, Kolkata, India
- 3:00 62 139.062 Early Joint Attention Predicts Children with ASDs Subsequent Performance on Comprehension Tasks. J. Park<sup>1</sup>, S. Tek<sup>2</sup>, D. A. Fein<sup>1</sup> and L. Naigles<sup>1</sup>, (1)University of Connecticut, Storrs, CT, (2)Johns Hopkins University, Baltimore, MD
- 1:00 63 139.063 Selective Deficits in Mental State Attributions in Individuals with Velocardiofacial Syndrome (22q11.2 Deletion Syndrome). J. Ho<sup>1</sup>, P. D. Radoeva<sup>2</sup>, M. Jalbrzikowski<sup>3</sup>, C. Chow<sup>1</sup>, J. Hopkins<sup>1</sup>, K. M. Antshel<sup>2</sup>, W. Fremont<sup>2</sup>, R. J. Shprintzen<sup>2</sup>, C. E. Bearden<sup>3</sup> and W. R. Kates<sup>2</sup>, (1)Department of Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, CA, (2)SUNY Upstate Medical University, Syracuse, NY, (3)Department of Psychology, University of California, Los Angeles, CA



- 2:00 64 139.064 Understanding of Intentions in Action by High Functioning Children with Autism Spectrum Disorder. J. D. Knutsen<sup>1</sup> and D. A. Frye, Applied Psychology-Human Development, University of Pennsylvania, Philadelphia, PA
- 3:00 65 139.065 Emotional Functioning and Social Problems in Young Children with ASD. E. Oberwelland<sup>1</sup>, C. Rieffe<sup>2</sup> and L. Stockmann<sup>3</sup>, (1)Developmental Psychology, Leiden University, Leiden, Netherlands, (2)Developmental Psychology, Leiden University, Leiden, Netherlands, (3)Center for Autism, Leiden, Netherlands
- 1:00 66 139.066 Regulation of Activity Level and Affective Responses in Toddlers with ASD. A. Dowd<sup>1</sup>, E. Gisin, F. Shic, S. Macari and K. Chawarska, Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:00 67 139.067 Social Motivation Is Correlated with Face Processing Skill in Children with ASD. N. A. Tonge<sup>1</sup>, C. Chevallier<sup>1</sup>, J. Parish-Morris<sup>2</sup>, J. Letzen<sup>1</sup> and R. T. Schultz<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA
- 3:00 68 139.068 Social Responsiveness in Relation to Peer Interactions in Preschoolers: The Role of Executive Functions. H. A. Henderson<sup>1</sup>, L. Mohapatra, K. E. Ono and D. S. Messinger, Psychology, University of Miami, Coral Gables, FL
- 1:00 69 139.069 Physiologic Responses to Emotion-Eliciting Task for Children with ASD. H. Dauterman<sup>1</sup>, B. J. Wilson<sup>1</sup>, R. Montague<sup>2</sup>, C. Manangan<sup>1</sup>, K. Hamilton<sup>3</sup> and R. Miller<sup>4</sup>, (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Seattle Children's Hospital, Seattle, WA, (3)Seattle Pacific University, Seattle, WA, (4)Seattle Pacific University, Seattle, WA
- 2:00 70 139.070 Emotion Regulation of Preschoolers with ASD During Dyadic Interaction with Mother and Father: Behavioral and Physiological Markers. Y. Hirschler-Guttenberg<sup>1</sup>, O. Golan<sup>1,2</sup>, S. Ostfeld-Etzion<sup>1</sup> and R. Feldman<sup>1,3</sup>, (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)The Association for Children at Risk, Tel Aviv, Israel, (3)The Gonda Brain Center, Bar-Ilan University, Ramat Gan, Israel
- 3:00 71 139.071 Eye Contact Enhances the Accuracy of Hand Imitation In Children with ASD. Y. Kikuchi<sup>1</sup>, Y. Tojo<sup>2</sup>, H. Osana<sup>3</sup> and T. Hasegawa<sup>4</sup>, (1)Japan Society for the Promotion of Science, Tokyo, Japan, (2)Ibaraki University, Mito, Japan, (3)Musashino Higashi Gakuen, Tokyo, Japan, (4)The University of Tokyo, Tokyo, Japan
- 1:00 72 139.072 Who Is Talking and About What? Conversation about Personal Events in Autism. S. Goldman<sup>1</sup>, D. DeNigris<sup>2</sup> and K. Nelson<sup>3</sup>, (1)Neurology & Pediatrics, Albert Einstein College of Medicine, Bronx, NY, (2)Psychology, City University of New York, New York, NY, (3)Psychology, City University of New York, New York, NY
- 2:00 73 139.073 Face, Mouth, Versus Eyes: A Comparison of Emotion Recognition in Children with ASD and Typical Development. B. J. Wilson<sup>1</sup>, K. E. McKee<sup>2</sup>, J. L. Berg<sup>2</sup>, K. Hamilton<sup>3</sup>, M. Gorman<sup>2</sup> and E. Werst<sup>1</sup>, (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Seattle Pacific University, Seattle, WA, (3)Seattle Pacific University, Seattle, WA
- 3:00 74 139.074 Social Attribution to 'Triangles Playing Tricks' Is Diminished and Improves Less with Age in Children with High Functioning Autism Spectrum Disorders. E. Bal<sup>1</sup>, B. Yerys<sup>1</sup>, J. L. Sokoloff<sup>1</sup>, M. Celano<sup>2</sup>, L. Kenworthy<sup>1</sup>, J. Giedd<sup>3</sup> and G. L. Wallace<sup>4</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)National Institute of Mental Health, Bethesda, MD, (3)Child Psychiatry Lab, National Institute of Mental Health, Bethesda, MD, (4)NIMH, National Institute of Mental Health, Bethesda, MD
- 1:00 75 139.075 Early Attentional Processing of Affective Faces in Toddlers with ASD. J. Garzarek<sup>1</sup>, S. Macari, K. Chawarska and F. Shic, Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:00 76 139.076 The Development of Anticipatory Smiling in Infants At Risk for Autism Spectrum Disorders. D. N. Gangi<sup>1</sup>, C. J. Grantz, B. Lambert and D. S. Messinger, University of Miami, Coral Gables, FL
- 3:00 77 139.077 Making the Choice: Style, Path, or Goal? Imitation in Autism Spectrum Disorders. J. Mussey<sup>1,2</sup> and L. G. Klinger<sup>1,3</sup>, (1)University of Alabama, Tuscaloosa, AL, (2)JFK Partners, University of Colorado Denver, Denver, CO, (3)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC
- 1:00 78 139.078 Temperamental Risk Factors for Bullying in HFA. A. K. Stefanatos<sup>1</sup>, A. R. Neal-Beevers<sup>1</sup>, L. Sperle<sup>2</sup> and B. C. Gamber<sup>1</sup>, (1)University of Texas at Austin, Austin, TX, (2)University of Pittsburgh, Pittsburgh, PA
- 2:00 79 139.079 Advanced Theory of Mind Assessment in Adults with High-Functioning Autism. M. L. McEntee<sup>1</sup>, S. Kuo<sup>1</sup>, E. Lacey<sup>1</sup>, M. A. Andrejczuk<sup>1</sup>, L. Bosley<sup>1</sup>, A. Cooper<sup>1</sup> and B. Gordon<sup>1,2</sup>, (1)Cognitive Neurology/Neuropsychology, Department of Neurology, The Johns Hopkins University School of Medicine, Baltimore, MD, (2)Department of Cognitive Science, The Johns Hopkins University, Baltimore, MD
- 3:00 80 139.080 Predicting Emotion Recognition Bias From Emotion Description in Adolescents with and without Autism. L. D'Abreu<sup>1</sup>, A. R. Neal-Beevers<sup>1</sup>, L. Sperle<sup>2</sup>, T. Wells<sup>3</sup>, B. C. Gamber<sup>1</sup> and A. K. Stefanatos<sup>1</sup>, (1)University of Texas at Austin, Austin, TX, (2)University of Pittsburgh, Pittsburgh, PA, (3)Brown University, Providence, RI
- 1:00 81 139.081 Development of Advanced Theory of Mind Paradigm. T. Oswald<sup>1</sup>, M. A. Winter-Messiers<sup>1</sup>, C. Palmrose<sup>1</sup>, A. M. Schmidt<sup>1</sup> and L. Moses<sup>2</sup>, (1)University of Oregon, Eugene, OR, (2)University of Oregon, Eugene, OR

Poster Sessions  
140 - Cognition and Behavior III  
1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 82 140.082 Vocational Outcomes of Adults with ASD: Patterns Over Time and Relation to Daily Living Skills. J. L. Taylor<sup>1</sup> and M. J. Seltzer<sup>1</sup>, (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Waisman Center, University of Wisconsin, Madison, WI
- 2:00 83 140.083 Daily Living Skills of Adolescents and Adults with Autism Spectrum Disorders: Growth Curve Trajectories Over a 10-Year Period. L. E. Smith<sup>1</sup>, M. J. Maenner, J. S. Greenberg and M. M. Seltzer, Waisman Center, University of Wisconsin, Madison, WI

- 3:00 84 140.084 Head Lag in Infants At Risk for Autism. J. E. Flanagan<sup>1</sup>, R. J. Landa<sup>2</sup>, A. Bhat<sup>3</sup> and M. Bauman<sup>4</sup>, (1)Occupational Therapy, Kennedy Krieger Institute, Baltimore, MD, (2)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (3)University of Connecticut, Storrs, CT, (4) Lurie Center/LADDERS, Lexington, MA
- 1:00 85 140.085 Repetitive Stereotyped Behaviour Impacts Gesturing Behaviour Across Childhood in Children with ASD. V. Lee<sup>1</sup>, S. Georgiades<sup>2</sup>, P. Szatmari<sup>2,3</sup>, S. E. Bryson<sup>4</sup>, E. Fombonne<sup>5,6</sup>, P. Mirenda<sup>7</sup>, W. Roberts<sup>8,9</sup>, I. M. Smith<sup>4</sup>, T. Vaillancourt<sup>10</sup>, J. Volden<sup>11</sup>, C. Waddell<sup>12</sup> and L. Zwaigenbaum<sup>11</sup>, (1)Psychology, Behaviour, and Neuroscience, McMaster University, Hamilton, ON, Canada, (2)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (3)Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada, (4)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (5)Montreal Children's Hospital, Montreal, QC, Canada, (6)Psychiatry, McGill University, Montreal, QC, Canada, (7)University of British Columbia, Vancouver, BC, Canada, (8)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (9)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (10)University of Ottawa, Ottawa, ON, Canada, (11)University of Alberta, Edmonton, AB, Canada, (12)Simon Fraser University, Vancouver, BC, Canada
- 2:00 86 140.086 The Motor and Learning Questionnaire: Assessing 3 Domains of the Mullen Scales of Early Learning Via Parent Report. K. Libertus<sup>1,2</sup> and R. J. Landa<sup>1,2</sup>, (1)Johns Hopkins School of Medicine, Baltimore, MD, (2)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD
- 3:00 ▶ 87 140.087 Dietary Intake and Parents' Perception of Mealtime Behaviors and Feeding History in Chinese Children with Autism: Comparison with Typically Developing Children. L. Xia<sup>1</sup>, W. Xia<sup>2</sup>, C. H. Sun<sup>2</sup> and L. J. Wu<sup>2</sup>, (1)The First Hospital of Harbin Medical University, Harbin, China, (2)Harbin Medical University, Harbin, China
- 1:00 88 140.088 Utility of the Psychoeducational Profile-3 for Assessing Children with Autism Spectrum Disorders. M. Fulton<sup>1</sup> and B. D'Entremont<sup>2</sup>, (1)The University of New Brunswick, Fredericton, NB, Canada, (2)University of New Brunswick, Fredericton, NB, Canada
- 2:00 89 140.089 Using a Newly Developed Computer-based Program to Evaluate Learning of Visuomotor Procedures in Children with Autism: A Pilot Study. L. Sparaci<sup>1,2</sup>, M. Vespignani<sup>3</sup>, D. Formica<sup>4</sup>, L. D'Elia<sup>5</sup>, G. Valeri<sup>6</sup> and S. Vicari<sup>7</sup>, (1)Institute of Cognitive Sciences and Technologies (ISTC), National Research Council of Italy (CNR), Rome, Italy, (2)Neuroscience Department, Children's Hospital Bambino Gesù, Rome, Italy, (3)Biorobotics Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, (4)Biomedical Robotics and Biomicrosystems Lab, Università Campus Bio-Medico, Rome, Italy, (5)Neuroscience Department, Children's Hospital Bambino Gesù, Rome, Italy, (6)Neuroscience Department, Children's Hospital Bambino Gesù, Rome, Italy, (7)U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù, Rome, Italy
- 3:00 90 140.090 Goal-Directed Action Control in Children with Autism. H. M. Geurts<sup>1</sup> and S. de Wit<sup>2</sup>, (1)University of Amsterdam, Amsterdam, NH, Netherlands, (2)Clinical Psychology, University of Amsterdam, Amsterdam, Netherlands
- 1:00 91 140.091 Preserved Mimicry in Children with Autism; Enhanced Mimicry in Children with Williams Syndrome. E. J. Moody<sup>1</sup>, D. N. McIntosh<sup>2</sup>, A. Lindsay<sup>3</sup>, A. Turner<sup>4</sup> and S. Hepburn<sup>5</sup>, (1)University of Colorado, Denver, CO, (2)University of Denver, Denver, CO, (3)Psychiatry, University of Colorado Denver School of Medicine, Aurora, CO, (4)Psychology, University of Denver, Denver, CO, (5)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO
- 2:00 92 140.092 Illusion Susceptibility Indicates a Two-Factor Structure for the Systemizing Trait of Autism. P. Dasonville<sup>1</sup> and S. Reed, Psychology Department and Institute of Neuroscience, University of Oregon, Eugene, OR
- 3:00 93 140.093 Evidence for Veridical Perceptual Mapping in Savant Syndrome: A Case Study. L. Bouvet<sup>1,2</sup>, S. Donnadieu<sup>2,3</sup>, S. Valdois<sup>2,4</sup> and L. Mottron, M.D.<sup>5</sup>, (1)Laboratoire de Psychologie et Neurocognition, Université Pierre Mendès France, Grenoble, France, (2)Laboratoire de Psychologie et Neurocognition, Grenoble, France, (3)Laboratoire de Psychologie et Neurocognition, Université de Savoie, Chambéry, France, (4)Centre National de la Recherche Scientifique, Paris, France, (5)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 1:00 94 140.094 Computer-based Assessments of Executive Functions in Preschoolers with and without ASD: The Relations to Parent Ratings of Social and Behavioural Functioning. E. Gardiner<sup>1</sup>, S. Hutchison<sup>2</sup>, M. Miller<sup>2</sup>, U. Mueller<sup>2</sup>, K. Kerns<sup>2</sup> and G. Iarocci<sup>1</sup>, (1)Psychology, Simon Fraser University, Burnaby, BC, Canada, (2)Psychology, University of Victoria, Victoria, BC, Canada
- 2:00 95 140.095 A Pilot Study on the Relationship Between Restricted Repetitive Behaviors and Mothers' Stress. M. Kuroda<sup>1</sup> and N. Inada<sup>2</sup>, (1)Department of Psychology, Shukutoku University, Chiba, Japan, (2)National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan
- 3:00 96 140.096 Cognitive and Behavioural Correlates of Handedness in Autism and the Broader Phenotype. D. L. Floris<sup>1</sup>, L. R. Chura<sup>1</sup>, R. J. Holt<sup>2</sup>, S. Baron-Cohen<sup>1</sup> and M. D. Spencer<sup>3</sup>, (1)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Centre, University of Cambridge, Cambridge, England, United Kingdom
- 1:00 97 140.097 Sensitivity to Visual and Proprioceptive Error During Motor Adaptation in Children with Autism. M. K. Marko<sup>1</sup>, S. H. Mostofsky<sup>2,3</sup> and R. Shadmehr<sup>1</sup>, (1)Johns Hopkins University, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Johns Hopkins School of Medicine, Baltimore, MD

- 2:00 98 140.098 Sensory Symptoms in Autism Families. H. H. Goldsmith and L. Meyer, Psychology, University of Wisconsin, Madison, WI
- 3:00 99 140.099 Perception of Motion Complexity Is Deficient in Adults with Autism Spectrum Disorder. J. L. Haworth<sup>1,2</sup>, W. Fisher<sup>3</sup>, S. Vallabhajosula<sup>1</sup> and N. Stergiou<sup>1,2</sup>, (1)Nebraska Biomechanics Core Facility, University of Nebraska at Omaha, Omaha, NE, (2)College of Public Health, University of Nebraska Medical Center, Omaha, NE, (3)Center for Autism Spectrum Disorders, Munroe-Meyer Institute, University of Nebraska Medical Center, Omaha, NE
- 1:00 100 140.100 Autistic People Talk about Themselves: A Qualitative Analysis of Internet Discussion Forums. E. Dromi and M. Pascal, School of Education, Tel Aviv University, Tel Aviv, Israel
- 2:00 101 140.101 Do Sensory Processing Deficits Impact on Speech Encoding in ASD? Evidence from an Experimental Study of Intellectually High-Functioning Adults. J. Mayer and P. Heaton, Goldsmiths College, University of London, London, England
- 3:00 102 140.102 Impact of Sensorimotor Deficits in Adaptive Behavior in ADHD Associated with or without HFA. C. Mattard-Labrecque<sup>1</sup>, M. Couture<sup>2</sup> and L. BenAmor<sup>1</sup>, (1)Laval University, Québec, QC, Canada, (2)Sherbrooke University, Sherbrooke, QC, Canada
- 1:00 103 140.103 Impaired Peripheral Sound Localization Is Associated with Repetitive Behaviors and Sensory Abnormalities in Individuals with ASD. J. H. Foss-Feig<sup>1</sup>, C. N. Wilson<sup>2</sup>, J. Cockhren<sup>1</sup>, J. R. Pryweller<sup>1</sup>, C. A. Necessary<sup>3</sup>, C. P. Burnette<sup>4</sup>, R. A. Stevenson<sup>5</sup>, J. K. Siemann<sup>1</sup> and C. J. Cascio<sup>5</sup>, (1)Vanderbilt University, Nashville, TN, (2)Yale University, New Haven, CT, (3)Vanderbilt University School of Medicine, Nashville, TN, (4)Department of Pediatrics, University of New Mexico, Albuquerque, NM, (5)Vanderbilt University Medical Center, Nashville, TN
- 2:00 104 140.104 The Developmental Trajectories of Multisensory Integration Differ Between Autistic and Typically Developed Individuals. R. A. Stevenson<sup>1</sup>, J. K. Siemann<sup>2</sup>, H. E. Eberly<sup>2</sup>, B. C. Schneider<sup>2</sup>, T. G. Woynaroski<sup>1</sup>, J. H. Foss-Feig<sup>3</sup>, S. M. Camarata<sup>1</sup> and M. T. Wallace<sup>1</sup>, (1)Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Psychology, Vanderbilt University, Nashville, TN
- 3:00 105 140.105 Investigating the Structure of Restricted and Repetitive Behaviours in High-Functioning ASD. O. Baykaner<sup>1</sup>, W. P. Mandy<sup>2</sup>, S. Staunton<sup>3</sup>, D. H. Skuse<sup>4</sup> and C. Willis<sup>3</sup>, (1)Behavioral & Brain Sciences Unit, Institute of Child Health, London, United Kingdom, (2)University College, London, United Kingdom, (3)Social Communication Disorders Clinic, Great Ormond Street Hospital, London, United Kingdom, (4)Institute of Child Health, London, United Kingdom
- 1:00 106 140.106 The TEACCH Transition Assessment – Preliminary Findings in a Sample of Young Adults with Autism. S. M. Butler<sup>1</sup>, N. R. Saghy<sup>2</sup>, D. K. Anderson<sup>2</sup> and C. E. Lord<sup>2</sup>, (1) Institute for Brain Development, Weill Cornell Medical College, White Plains, NY, (2)Institute for Brain Development, Weill Cornell Medical College, White Plains, NY
- 2:00 107 140.107 Socially Contextualized Multisensory Integration in Autism. J. I. Borjon<sup>1</sup>, S. V. Shepherd<sup>2</sup>, A. Trubanova<sup>1</sup>, W. Jones<sup>1</sup>, A. Klin<sup>1</sup> and A. A. Ghazanfar<sup>2</sup>, (1)Marcus Autism Center, Children’s Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)Neuroscience Institute, Princeton University, Princeton, NJ
- 3:00 108 140.108 Characterization and Profiling of the Tactile Sensory Behavior in Children with Autism Spectrum Disorders. M. H. Ly<sup>1</sup>, M. J. Ackerman, A. Klin and W. Jones, Marcus Autism Center, Children’s Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA
- 1:00 109 140.109 Objective Metrics for Cognitive-Dependent Motor Learning Gains. E. B. Torres<sup>1</sup>, R. W. Isenhower<sup>2</sup>, K. Fiske Massey<sup>3</sup>, M. J. Bamond<sup>3</sup>, D. N. Metaxas<sup>4</sup> and J. V. Jose<sup>5</sup>, (1)Psychology-Cognitive Science-Computer Science, Rutgers University, Piscataway, NJ, (2)Department of Psychology, Rutgers University, Piscataway, NJ, (3)Douglass Developmental Disabilities Center, Rutgers University, New Brunswick, NJ, (4)Department of Computer Science, Rutgers University, Piscataway, NJ, (5)Department of Physics, Indiana University, Bloomington, IN
- 2:00 110 140.110 Enhanced Processing of Pitch Direction in Children with Autism Spectrum Disorder. N. E. Foster<sup>1,2</sup>, T. Ouimet<sup>1,2</sup>, A. Tryfon<sup>1,2</sup>, K. A. R. Doyle-Thomas<sup>3</sup>, E. Anagnostou<sup>3</sup>, NeuroDevNet ASD imaging group<sup>4</sup> and K. L. Hyde<sup>2,5</sup>, (1)Faculty of Medicine, Montreal Children’s Hospital, McGill University, Montreal, QC, Canada, (2)International Laboratory for Brain Music and Sound (BRAMS), Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)<http://www.neurodevnet.ca/research/asd>, Vancouver, BC, Canada, (5)McGill University, International Laboratory for Brain Music and Sound (BRAMS), Montreal, QC, Canada
- 3:00 111 140.111 Shifting Visual Attention During Natural Viewing in 12-24-Month-Old Children with Autism. S. Habayeb<sup>1</sup>, K. Knoch<sup>2</sup>, W. Jones<sup>1</sup> and A. Klin<sup>1</sup>, (1)Marcus Autism Center, Children’s Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)Department of Psychology, University of Connecticut, Storrs, CT
- 1:00 112 140.112 Self-Reported Food Selectivity in Adolescents and Young Adults with Autism Spectrum Disorders. E. S. Kushner<sup>1</sup>, B. L. Robustelli<sup>2</sup>, E. Dixon<sup>3</sup>, L. Kenworthy<sup>4</sup> and G. L. Wallace<sup>2</sup>, (1)Children’s National Medical Center, Washington, DC, (2)Laboratory of Brain & Cognition, National Institute of Mental Health, Bethesda, MD, (3)Lab of Brain and Cognition, NIMH, Bethesda, MD, (4)Center for Autism Spectrum Disorders, Children’s National Medical Center, Rockville, MD



- 2:00 113 140.113 Low-Level Auditory-Motor Synchronization in Children with Autism Spectrum Disorder. A. Tryfon<sup>1,2</sup>, N. E. Foster<sup>1,2</sup>, T. Ouimet<sup>1,2</sup>, K. A. R. Doyle-Thomas<sup>3</sup>, E. Anagnostou<sup>3</sup>, NeuroDevNet ASD imaging group<sup>4</sup> and K. L. Hyde<sup>1,2</sup>, (1)International Laboratory for Brain Music and Sound (BRAMS), Montreal, QC, Canada, (2)Faculty of Medicine, Montreal Children's Hospital, McGill University, Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)<http://www.neurodevnet.ca/research/asd>, Vancouver, BC, Canada
- 3:00 114 140.114 Auditory Global-Local Processing in Children with Autism Spectrum Disorders. T. Ouimet<sup>1,2</sup>, N. E. Foster<sup>1,2</sup>, A. Tryfon<sup>1,2</sup>, K. A. R. Doyle-Thomas<sup>3</sup>, E. Anagnostou<sup>3</sup>, NeuroDevNet ASD Imaging Group<sup>4</sup> and K. L. Hyde<sup>1,2</sup>, (1)Faculty of Medicine, Montreal Children's Hospital, McGill University, Montreal, QC, Canada, (2)International Laboratory for Brain Music and Sound (BRAMS), Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)<http://www.neurodevnet.ca/research/asd>, Vancouver, BC, Canada
- 1:00 115 140.115 Abnormal Parent-Reported Sensory Behaviors in ASD and ADHD. E. L. Wodka<sup>1</sup>, M. M. Talley and S. H. Mostofsky, Kennedy Krieger Institute, Baltimore, MD
- 2:00 116 140.116 The Role of Motor Coordination in the Facial Expression of Emotion in Autism Spectrum Disorders. C. J. Zampella<sup>1</sup>, E. G. Smith and L. Bennetto, Clinical & Social Sciences in Psychology, University of Rochester, Rochester, NY
- 3:00 117 140.117 Development of Oculomotor Function in the First Two Years of Life in Children At High- and Low-Risk for Developing Autism Spectrum Disorders. T. Tsang<sup>1</sup>, C. J. Zampella<sup>2</sup>, A. Klin<sup>1</sup> and W. Jones<sup>1</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)University of Rochester, Rochester, NY
- 1:00 118 140.118 Itchy and Scratchy: Contagious Scratching and Yawning in Adults with Autism Spectrum Disorder. F. S. McEwen<sup>1</sup>, R. Booth<sup>2,3</sup>, S. Luz<sup>4</sup>, P. F. Bolton<sup>5</sup> and F. Happe<sup>3</sup>, (1)Social, Genetic and Developmental Psychiatry (SGDP) Centre, Institute of Psychiatry, King's College, London, United Kingdom, (2)Guy's and St Thomas' NHS Trust, London, United Kingdom, (3)Social, Genetic and Developmental Psychiatry (SGDP) Centre, Institute of Psychiatry, London, United Kingdom, (4)University College of London, London, United Kingdom, (5)Child and Adolescent Psychiatry, Institute of Psychiatry, Kings College London, London, United Kingdom
- 2:00 119 140.119 Attention, Arousal, and Affect Regulation From 4 to 42 Months: Comparisons of Children with ASD, with ASD Siblings, and with Neonatal Medical Risk for Developmental Disorders. J. M. Gardner<sup>1</sup>, B. Z. Karmel<sup>1</sup>, I. L. Cohen<sup>2</sup>, E. M. Lennon<sup>1</sup>, R. L. Freedland<sup>1</sup>, P. M. Kittler<sup>1</sup> and M. J. Flory<sup>3</sup>, (1)Infant Development, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Psychology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Research Design and Analysis, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 3:00 120 140.120 Automatic Retrieval of Videos of Stereotyped and Repetitive Movements. A. Ciptadi<sup>1</sup>, A. Rozga, G. D. Abowd and J. Reh, Georgia Institute of Technology, Atlanta, GA
- 1:00 121 140.121 The Relationship Between Repetitive Behaviors and Executive Function in Children with Autism Spectrum Disorder. L. E. Kester<sup>1</sup>, A. J. Moffitt<sup>1</sup>, J. H. Miles<sup>2</sup> and S. E. Christ<sup>1</sup>, (1)Psychological Sciences, University of Missouri, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 2:00 122 140.122 Motor Learning in Children with Autism Spectrum Disorder. A. K. Wegrzyn<sup>1</sup>, J. H. Miles<sup>2</sup> and S. E. Christ<sup>1</sup>, (1)Psychological Sciences, University of Missouri, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO

Poster Sessions

141 - Cognition and Behavior IV

1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 123 141.123 Screening for Social Disability At 12 Months Using the First Year Inventory. J. P. Rowberry<sup>1</sup>, G. M. Chen<sup>2</sup>, D. Campbell<sup>2</sup>, C. Weitzman<sup>1,2</sup> and K. Chawarska<sup>2</sup>, (1)Pediatrics, Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:00 124 141.124 The Childhood Routines Inventory in Children with Autism Spectrum Disorders. T. D. Challman<sup>1</sup>, D. W. Evans<sup>2</sup>, S. M. Myers<sup>3</sup>, S. Lazar<sup>2</sup>, P. T. Orr<sup>3</sup>, A. Moreno de Luca<sup>3</sup> and D. H. Ledbetter<sup>4</sup>, (1)Neurodevelopmental Pediatrics, Geisinger Health System, Danville, PA, (2)Bucknell University, Lewisburg, PA, (3)Genomic Medicine, Geisinger Health System, Danville, PA, (4)Geisinger Health System, Danville, PA
- 3:00 125 141.125 Intermodal Perception and Attention Shifting in Children with Autism Spectrum Disorders. J. M. Bebko<sup>1</sup>, C. A. McMorris<sup>1</sup>, L. N. Hancock<sup>2</sup> and S. M. Brown<sup>1</sup>, (1)Department of Psychology, York University, Toronto, ON, Canada, (2)Department of Psychology, York University, Toronto, ON, Canada
- 1:00 126 141.126 The Unique Impact of Autism on the Detection of Temporal Synchrony in Intermodal Processing: What Are the Roles of Intellectual and Language Variables?. L. N. Hancock<sup>1</sup>, S. M. Brown<sup>2</sup> and J. M. Bebko<sup>2</sup>, (1)Department of Psychology, York University, Toronto, ON, Canada, (2)Department of Psychology, York University, Toronto, ON, Canada
- 2:00 127 141.127 Examining Relationships Between Perceptual Bias and Autistic Traits Using Typically Developing Individuals. E. Myrtetus<sup>1</sup> and K. M. Curby<sup>2</sup>, (1)Psychology, Drexel University, Philadelphia, PA, (2)Temple University, Philadelphia, PA

- 3:00 128 141.128 Use of the Differential Abilities Scale for the Assessment of Children with Autism Spectrum Disorders. R. Aiello<sup>1</sup>, L. A. Ruble and E. Wilcox, Educational, Counseling, and School Psychology, University of Kentucky, Lexington, KY
- 1:00 129 141.129 Reward Processing in Children and Adolescents with Autism Spectrum Disorders and Children and Adolescents with ADHD. E. Demurie<sup>1</sup>, H. Roeyers<sup>1</sup>, D. Baeyens<sup>2</sup>, J. R. Wiersema<sup>3</sup> and E. Sonuga-Barke<sup>1,3</sup>, (1)Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium, (2)Lessius University College, Antwerp, Belgium, (3)University of Southampton, Southampton, United Kingdom
- 2:00 130 141.130 Speed Discrimination Abilities in Typical Development and in Children with Autism. C. Manning<sup>1</sup>, D. Aagten-Murphy<sup>2</sup>, T. Charman<sup>1</sup> and E. Pellicano<sup>1</sup>, (1)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (2)Università degli Studi di Firenze, Florence, Italy
- 3:00 131 141.131 More EEFRT Than It's Worth? Effort-based Decision-making in Autism Spectrum Disorders. C. Damiano<sup>1</sup>, J. Aloi<sup>1</sup>, M. S. Treadway<sup>2</sup>, J. W. Bodfish<sup>1</sup> and G. S. Dichter<sup>1</sup>, (1)University of North Carolina, Chapel Hill, NC, (2)Vanderbilt University, Nashville, TN
- 1:00 132 141.132 Visual Shape Discrimination in Autism: Linking Low- and Mid-Level Perception. A. Perreault<sup>1,2,3</sup>, C. Habak<sup>4</sup>, L. Mottron<sup>3</sup>, F. Lepore<sup>1</sup> and A. Bertone<sup>2,3,5</sup>, (1)Department of Psychology, Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (3)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (4)Visual Perception and Psychophysics Lab, Université de Montréal, and Centre de Recherche, Institut Universitaire de Gériatrie de Montréal, Montreal, QC, Canada, (5)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada
- 2:00 133 141.133 Gender Differences in Autism Spectrum Disorder: Early Markers, Autism Manifestations and Cognitive Development From Birth to Preschool Age. R. Joshi<sup>1</sup> and C. Dissanayake<sup>2</sup>, (1) La Trobe University, Olga Tennison Autism Research Centre., Bundoora, Australia, (2)La Trobe University, Olga Tennison Autism Research Centre, Bundoora, Australia
- 3:00 134 141.134 Is Learning by Observation Impaired in Individuals with Autism Spectrum Disorder?. F. Foti<sup>1,2</sup>, L. Mazzone<sup>3</sup>, D. Menghini<sup>4</sup>, F. Federico<sup>1</sup>, L. De Peppo<sup>4</sup>, L. Reale<sup>5</sup>, M. Guarnera<sup>6</sup>, S. Vicari<sup>7</sup> and L. Petrosini<sup>1,2</sup>, (1)University "Sapienza" of Rome, Rome, Italy, (2)Centro Europeo per la Ricerca sul Cervello (CERC)/Fondazione Santa Lucia, Rome, Italy, (3)Child Neuropsychiatry Unit, Department of Neuroscience, Bambino Gesù Children's Hospital, Rome, Italy, Rome, Italy, (4)U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù, Rome, Italy, (5)U.O.C. Neuropsichiatria Infantile, Università di Catania, Catania, Italy, (6)Division of Child and Adolescents NeuroPsychiatry, Department of Pediatrics, University of Catania, Catania, Italy, (7)U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù, Rome, Italy
- 1:00 135 141.135 Cognitive Assessment of Children with ASD. J. Bellando<sup>1</sup>, T. Katz<sup>2</sup>, E. Leuthé<sup>3</sup> and T. Clemons<sup>4</sup>, (1)Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR, (2)University of Colorado, Aurora, CO, (3)CDU, University of Colorado Denver School of Medicine – The Children's Hospital Denver, Aurora, CO, (4)EMMES Corp, Rockville, MD
- 2:00 136 141.136 Development of Visual Attention in Infants with Increased ASD Risk: A Longitudinal Assessment. R. Kincade<sup>1</sup>, E. J. H. Jones<sup>2</sup>, K. M. Venema<sup>1</sup>, M. Elsabbagh<sup>3</sup>, M. H. Johnson<sup>4</sup> and S. J. Webb<sup>1</sup>, (1)University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Centre for Brain and Cognitive Development, Birkbeck, London, United Kingdom, (4)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom
- 3:00 137 141.137 Parent Report of Executive Functioning in Individuals with a History of ASDs Who Have Achieved Optimal Outcomes. E. Troyb<sup>1</sup>, A. Orinstein<sup>1</sup>, K. E. Tyson<sup>1</sup>, M. A. Rosenthal<sup>2</sup>, M. Helt<sup>1</sup>, L. O'Connell<sup>3</sup>, J. Suh<sup>1</sup>, I. M. Eigsti<sup>4</sup>, E. A. Kelley<sup>5</sup>, M. C. Stevens<sup>6</sup>, R. T. Schultz<sup>7</sup>, M. Barton<sup>1</sup> and D. A. Fein<sup>1</sup>, (1)University of Connecticut, Storrs, CT, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Queen's University, Kingston, ON, Canada, (4)University of Connecticut, Storrs, CT, (5)Department of Psychology, Queen's University, Kingston, ON, Canada, (6)The Institute of Living, Hartford Hospital/Yale University, Hartford, CT, United States, (7)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

- 1:00 138 141.138 Stability of Cognitive and Adaptive Behaviour Standard Scores in Preschool Children with Autistic Spectrum Disorders. H. E. Flanagan<sup>11</sup>, I. M. Smith<sup>2</sup>, T. Vaillancourt<sup>3</sup>, E. Duku<sup>4</sup>, P. Szatmari<sup>5</sup>, S. E. Bryson<sup>2</sup>, E. Fombonne<sup>6,7</sup>, P. Mirenda<sup>8</sup>, W. Roberts<sup>9,10</sup>, J. Volden<sup>11</sup>, C. Waddell<sup>12</sup>, L. Zwaigenbaum<sup>11</sup> and S. Georgiades<sup>5</sup>, (1)IWK Health Centre, Halifax, NS, Canada, (2)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (3)University of Ottawa, Ottawa, ON, Canada, (4)Room 203, Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (5)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (6)Montreal Children's Hospital, Montreal, QC, Canada, (7)Psychiatry, McGill University, Montreal, QC, Canada, (8)University of British Columbia, Vancouver, BC, Canada, (9)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (10)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (11)University of Alberta, Edmonton, AB, Canada, (12)Simon Fraser University, Vancouver, BC, Canada
- 2:00 139 141.139 Uncovering the Role of Executive Functioning in Children's Cognitive Biases. S. B. Vanegas<sup>1</sup>, D. Davidson and M. Falotico, Department of Psychology, Loyola University, Chicago, IL
- 3:00 140 141.140 Action Prediction in Children with Autism Spectrum Disorder. T. Falck-Ytter<sup>1</sup>, C. von Hofsten<sup>2</sup>, C. Gillberg<sup>3</sup> and E. Fernell<sup>4</sup>, (1)KIND, Karolinska Institute, Stockholm, Sweden, (2)Dep. of Psychology, Uppsala University, Stockholm, Sweden, (3)The Gillberg Neuropsychiatry Centre, Sahlgrenska Academy, Gothenburg University, London, Sweden, (4)Autism Centre for Young Children, Handicap and Habilitation, Stockholm, Sweden
- 1:00 141 141.141 The Anticipation of Punishment Has a Large Effect on the Decision-making of ASD. T. Fujioka<sup>1</sup> and S. Miyamoto, University of Tsukuba, Tsukuba City, Ibaraki, Japan
- 2:00 142 141.142 The Endophenotype of Executive Function: A Pilot Study in Twins. A. Kresse<sup>1</sup>, S. Faja<sup>2</sup>, S. J. Webb<sup>1</sup> and R. Bernier<sup>1</sup>, (1)University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA
- 3:00 143 141.143 Dot Prototype Formation in Infants: A Comparison of Infants At High- and Low-Risk for Autism Spectrum Disorder. H. Z. Gastgeb<sup>1</sup>, K. W. Chua<sup>2</sup>, E. M. Dundas<sup>2</sup> and M. S. Strauss<sup>2</sup>, (1)Psychiatry, University of Pittsburgh, Pittsburgh, PA, (2)Psychology, University of Pittsburgh, Pittsburgh, PA
- 1:00 144 141.144 The Shell Game: Investigating Spontaneous Response to Gaze Cueing of Attention in Children with High Functioning Autism. S. Congiu<sup>1</sup>, R. Fadda<sup>2</sup> and G. S. Doneddu<sup>1</sup>, (1)Center for Pervasive Developmental Disorders, AOB, Cagliari, Italy, (2)Department of Psychology, University of Cagliari, Cagliari, Italy
- 2:00 145 141.145 Can the Perception of Time Be Modulated by Emotional Stimuli in Individuals with Autism Spectrum Disorders?. C. Jones<sup>1</sup>, S. B. Gaigg<sup>2</sup> and A. Lambrechts<sup>2</sup>, (1)Department of Psychology, University of Essex, Colchester, United Kingdom, (2)Autism Research Group, City University London, London, United Kingdom
- 3:00 146 141.146 Resilience and Executive Functions in Children with High Functioning Autism Spectrum Disorders. A. A. Altomare<sup>1</sup>, A. McCrimmon<sup>2</sup>, R. L. Matchulis<sup>2</sup> and K. Jitlina<sup>2</sup>, (1)School and Applied Child Psychology, University of Calgary, Calgary, AB, Canada, (2)University of Calgary, Calgary, AB, Canada
- 1:00 147 141.147 Piaget's "A-Not-B Task" in Infants At High and Low Risk for ASD. T. St. John<sup>1</sup>, A. M. Estes<sup>2</sup>, G. Dawson<sup>3</sup>, S. R. Dager<sup>4</sup> and A. IBIS Network<sup>5</sup>, (1)Speech and Hearing Sciences, University of Washington Autism Center, Seattle, WA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA, (3)University of North Carolina, Autism Speaks, Chapel Hill, NC, United States, (4)University of Washington, Seattle, WA, (5)UW, UNC, WASTL, CHOP, Seattle, WA
- 2:00 148 141.148 Executive Functioning in High-Functioning Autism Spectrum Disorders Assessed by Neuropsychological Tests and Parent's Reports: Its Relationships with Adaptive Functioning. M. Rosa<sup>1</sup>, O. Puig<sup>1,2</sup>, V. Vallés<sup>1</sup>, S. Lera<sup>1</sup> and R. Calvo<sup>1,2</sup>, (1)Department of Child and Adolescent Psychiatry and Psychology, Hospital Clínic de Barcelona, Barcelona, Spain, (2)CIBERSAM, Barcelona, Spain
- 3:00 149 141.149 Evaluative Conditioning in Persons with ASD. M. E. Crisler<sup>1</sup>, P. S. Powell<sup>1</sup>, L. G. Klinger<sup>1,2</sup> and M. R. Klinger<sup>1,2</sup>, (1)University of Alabama, Tuscaloosa, AL, (2)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC
- 1:00 150 141.150 Differences in the Multisensory Temporal Binding Windows of TD and ASD Individuals As a Function of Stimulus Complexity. J. K. Siemann<sup>1</sup>, R. A. Stevenson<sup>2</sup>, B. C. Schneider<sup>1</sup>, H. E. Eberly<sup>1</sup>, T. G. Woynarowski<sup>3</sup>, J. H. Foss-Feig<sup>4</sup>, S. M. Camarata<sup>5</sup> and M. T. Wallace<sup>5</sup>, (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University, Thompsons Stn, TN, (4)Vanderbilt University, Nashville, TN, United States, (5)Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN
- 2:00 151 141.151 Math Ability in Autism Spectrum Disorders. M. J. Brosnan<sup>1</sup>, E. L. Ashwin<sup>2</sup>, H. Johnson<sup>3</sup>, B. Grawemeyer<sup>4</sup> and L. Benton<sup>3</sup>, (1)University of Bath, Bath, United Kingdom, (2)Psychology, Bath University, Bath, United Kingdom, (3)Bath University, Bath, United Kingdom, (4)Computer Science, Bath University, Bath, United Kingdom
- 3:00 152 141.152 Putting the Pieces Together: Is There a Connection Between Weak Global Bias, Verbal Ability, and Object Categorization in Autism?. J. L. Amaral<sup>1</sup>, H. Kloos<sup>1</sup>, C. D. Luzzi<sup>2</sup> and S. Collins<sup>1</sup>, (1)Psychology, University of Cincinnati, Cincinnati, OH, (2)Behavioral and Developmental Pediatrics, Memorial Children's Hospital of South Bend, IN
- 1:00 153 141.153 Toddlers with Autism Do Not Show Evidence of Categorization in a Novel Word Learning Task. S. Tek<sup>1</sup> and R. J. Landa<sup>2</sup>, (1)Kennedy Krieger Institute for Autism and Related Disorders, Baltimore, MD, (2)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD



- 2:00 154 141.154 Cognitive Processing of Global and Local Visual Stimuli in High-Functioning Individuals with Autism. O. Olu-Lafe<sup>1</sup>, J. Liederman and H. Tager-Flusberg, Department of Psychology, Boston University, Boston, MA
- 3:00 155 141.155 Preserved Sensitivity to Higher-Order Conceptual Versus Lower-Level Perceptual Information During Explicit Verbal Memory Encoding In ASD: Limits to EPF and WCC?. D. M. Bowler<sup>1</sup>, S. B. Gaigg<sup>1</sup> and J. Cooper<sup>2</sup>, (1)Autism Research Group, City University London, London, United Kingdom, (2)Psychology, City University London, London, United Kingdom
- 1:00 156 141.156 The Effect of Feedback on Perceptual Learning in Autistic Adults. A. Bertone<sup>1,2,3</sup>, V. Courchesne<sup>3,4</sup>, L. Filiatrault<sup>4</sup>, K. Dugas<sup>1,2</sup> and L. Mottron, M.D.<sup>3</sup>, (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (3)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (4)Department of Psychology, Université de Montréal, Montréal, QC, Canada
- 2:00 157 141.157 The Relationship Between Iconicity and Referential Understanding of Pictures in Low-Functioning Children with Autism. C. Hartley<sup>1</sup> and M. L. Allen, Psychology, Lancaster University, Lancaster, United Kingdom
- 3:00 158 141.158 Magnitude of Perceptual Peaks in Autism Is Partially Dependent on the Matching Variable: The Example of Pitch Discrimination. L. Mottron, M.D.<sup>1</sup>, A. A. Simard-Meilleur<sup>1</sup>, A. Bertone<sup>1,2,3</sup> and I. Soulières<sup>1,4</sup>, (1)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (3)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (4)Department of Psychology, University of Quebec in Montreal, Montreal, QC, Canada
- 1:00 159 141.159 Using a Change Detection Paradigm to Assess the Allocation of Visual Attention in Autism At Different Developmental Periods. F. Laine<sup>1,2</sup>, J. A. Burack<sup>2,3</sup>, V. Doobay<sup>1,2,3</sup>, L. Caruso<sup>1,2</sup>, L. Mottron, M.D.<sup>2</sup> and A. Bertone<sup>1,2,3</sup>, (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (3)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada
- 2:00 160 141.160 Assessing the Building Blocks of Spatial Perception in Autism Using a Tilt Discrimination Task. S. Censi<sup>1,2</sup>, A. Perreault<sup>2,3</sup>, J. A. Burack<sup>4,5</sup>, L. Mottron<sup>1,5</sup> and A. Bertone<sup>2,4,5</sup>, (1)Psychiatry, Université de Montréal, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (3)Department of Psychology, Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Montreal, QC, Canada, (4)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (5)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 3:00 161 141.161 The Emergence of Distinct Patterns of Nonverbal Cognitive Abilities in Preschoolers with Autism. K. K. Powell<sup>1</sup>, L. G. Anthony<sup>2</sup> and E. S. Kuschner<sup>2</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Center for Autism Spectrum Disorders, Division of Neuropsychology, Children's National Medical Center, Rockville, MD
- 1:00 162 141.162 Intellectual Ability and Autism. S. Neves<sup>1</sup>, J. Shenouda, H. Patel, A. M. Fongang-Fossa and W. Zahorodny, Pediatrics, UMDNJ-New Jersey Medical School, Newark, NJ
- 2:00 163 141.163 Intelligence Testing in Autistic Children Regarded As Very "Low-Functioning": The Good Surprise. V. Courchesne<sup>1</sup>, A. A. Simard-Meilleur<sup>1</sup> and I. Soulières<sup>1,2</sup>, (1)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Department of Psychology, University of Quebec, Montreal, QC, Canada
- 3:00 164 141.164 Cognitive Flexibility Among Individuals with Autism: The Influences of Chronological Age Vs. Mental Age. C. A. Campbell<sup>1</sup>, O. Landry<sup>2</sup>, N. N. Russo<sup>3</sup>, H. Flores<sup>1</sup>, S. Jacques<sup>2</sup> and J. A. Burack<sup>4</sup>, (1)Department of Educational & Counselling Psychology, McGill University, Montreal, QC, Canada, (2)Department of Psychology, Dalhousie University, Halifax, NS, Canada, (3)Department of Psychology, Syracuse University, Syracuse, NY, (4)School/Applied Psychology, Dept of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada
- 1:00 165 141.165 The Use of the Differential Ability Scales, Second Edition in Individuals with Autism Spectrum Disorders: Clinical Utility and Profile Variability. K. P. Nowell<sup>1</sup>, G. T. Schanding<sup>1</sup>, S. M. Kanne<sup>2</sup> and R. P. Goin-Kochel<sup>3</sup>, (1)School Psychology, University of Houston, Houston, TX, (2)Department of Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX, (3)Pediatrics, Baylor College of Medicine, Houston, TX
- 2:00 166 141.166 Cognitive Profile in Higher Functioning Children with An Autism Spectrum Disorder. E. M. Butter<sup>1</sup> and R. Arendt<sup>2</sup>, (1)187 W. Schrock Road, Nationwide Children's Hospital, Westerville, OH, (2)Pediatrics, The Ohio State University, Westerville, OH

- 3:00 167 141.167 Impaired Classical Conditioning in Persons with Autism Spectrum Disorders. P. S. Powell<sup>1</sup>, M. E. Crisler<sup>1</sup>, L. G. Klinger<sup>1,2</sup>, B. G. Travers<sup>1,3</sup> and M. R. Klinger<sup>1,4</sup>, (1)University of Alabama, Tuscaloosa, AL, (2)TEACCH, University of North Carolina School of Medicine, Chapel Hill, NC, (3)Waisman Center, University of Wisconsin-Madison, Madison, WI, (4)Allied Health, University of North Carolina School of Medicine, Chapel Hill, NC
- 1:00 168 141.168 Behavioral and Somatic Responses to Decision-making in Autism Spectrum Disorders: Evidence From the Iowa Gambling Test. P. D. Chamberlain<sup>1</sup>, T. Newton<sup>1</sup>, W. Ernst<sup>1</sup>, S. E. White<sup>1</sup>, K. Nelson<sup>2</sup>, D. Schmuck<sup>2</sup> and M. South<sup>1,3</sup>, (1)Neuroscience, Brigham Young University, Provo, UT, (2)Brigham Young University, Provo, UT, (3)Psychology, Brigham Young University, Provo, UT
- 2:00 169 141.169 Age-Related Differences in Visual Interference Control in Adolescents with Autism Spectrum Disorder. K. E. Bodner<sup>1</sup>, J. P. Stichter<sup>2</sup>, D. Q. Beversdorf<sup>3</sup>, J. H. Miles<sup>4</sup> and S. E. Christ<sup>1</sup>, (1)Psychological Sciences, University of Missouri, Columbia, MO, (2)University of Missouri, Columbia, MO, (3)Radiology, Neurology, Psychology, and Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (4)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 3:00 170 141.170 New Parent Report Measure of Cognitive Inflexibility and Related Symptoms in High Functioning ASD. L. Kenworthy<sup>1</sup>, B. Yerys<sup>1</sup>, M. A. Rosenthal<sup>1</sup>, J. L. Sokoloff<sup>1</sup>, M. C. Wills<sup>1</sup>, G. L. Wallace<sup>2</sup> and L. G. Anthony<sup>3</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Laboratory of Brain & Cognition, National Institute of Mental Health, Bethesda, MD, (3)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD
- 1:00 174 142.174 Congruence Between Parental Report and Standardized Assessment of Cognitive and Developmental Functioning Among Children with ASD. L. N. Clionsky<sup>1</sup>, K. P. Nowell<sup>2</sup>, C. M. Brewton<sup>3</sup> and R. P. Goin-Kochel<sup>4</sup>, (1)Clinical and Health Psychology, University of Florida, Gainesville, FL, (2)Educational Psychology, University of Houston, Houston, TX, (3)School Psychology, University of Houston, Houston, TX, (4)Pediatrics, Baylor College of Medicine, Houston, TX
- 2:00 175 142.175 Developmental Changes in Gaze Behaviour During Face Processing in Autism. N. Hernandez<sup>1</sup>, L. Roche<sup>2</sup>, M. Guimard-Brunault<sup>2</sup>, C. Barthelemy<sup>3</sup>, F. Bonnet-Brilhault<sup>1</sup> and J. Martineau<sup>4</sup>, (1)Centre de Pédopsychiatrie, INSERM U930, TOURS, France, (2)Service de Pédopsychiatrie, Inserm U930, Tours, France, (3)Centre de Pédopsychiatrie, INSERM U930, Tours, France, (4)INSERM U930, Tours, France
- 3:00 176 142.176 Screening for Autism Spectrum Disorder in Developmentally At Risk Toddlers. F. Nawaz<sup>1</sup>, C. Roncadin<sup>2</sup>, J. Brian<sup>3</sup>, S. E. Bryson<sup>4</sup>, A. Niccols<sup>5</sup>, W. Roberts<sup>3</sup>, I. M. Smith<sup>4</sup>, P. Szatmari<sup>6</sup> and L. Zwaigenbaum<sup>7</sup>, (1)University of Toronto Mississauga, Mississauga, ON, Canada, (2)Peel Children's Centre, Mississauga, ON, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (5)Infant-Parent Program, Hamilton Health Sciences Centre, Hamilton, ON, Canada, (6)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (7)University of Alberta, Edmonton, AB, Canada
- 1:00 177 142.177 Validation of a Japanese Version of the Vineland Adaptive Behavior Scales, Second Edition: Clinical Utility for the Assessment of Autism Spectrum Disorders. M. Tsujii<sup>1</sup>, H. Ito<sup>2</sup>, S. Ohtake<sup>2</sup>, N. Takayanagi<sup>2</sup> and W. Noda<sup>2</sup>, (1)Chukyo University, Toyota, Aichi, Japan, (2)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan
- 2:00 178 142.178 Assessment of Pragmatic Language in High Functioning Autism. R. L. Loomis<sup>1</sup>, E. S. Simmons<sup>2</sup> and R. Paul<sup>3</sup>, (1)Yale Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Yale Child Study Center, New Haven, CT
- 3:00 179 142.179 Bilingual Exposure and Language Development in Children with Autism in the UK. K. Leadbitter<sup>1</sup>, K. Hudry<sup>2</sup>, V. Slonims<sup>3</sup>, J. Green<sup>4</sup> and P. Consortium<sup>1</sup>, (1)University of Manchester, Manchester, United Kingdom, (2)La Trobe University, Bundoora, VIC, Australia, (3)Guy's & St Thomas' NHS Foundation Trust, London, United Kingdom, (4)Community Based Medicine, University of Manchester, Manchester, United Kingdom
- 1:00 180 142.180 An Evaluation of the Measurement Properties of An Activities of Daily Living Scale for Adults with Autism, Down Syndrome, Fragile X, and Other Intellectual Disabilities. M. M. Seltzer<sup>1</sup>, M. J. Maenner<sup>1</sup>, L. E. Smith<sup>1</sup>, J. Hong<sup>1</sup>, R. Makuch<sup>1</sup> and J. S. Greenberg<sup>1</sup>, Waisman Center, University of Wisconsin, Madison, WI
- 2:00 181 142.181 Using Eye-Tracking to Evaluate Visual Attention During the Encoding Stage of Social Information Processing of Dynamic Social Scenes in Children and Adolescents with ASD. J. H. Schroeder<sup>1</sup> and J. M. Bebko<sup>1</sup>, Department of Psychology, York University, Toronto, ON, Canada

**Poster Sessions**  
**142 - Cognition and Behavior V**  
 1:00 PM - 5:30 PM - Sheraton Hall

- 1:00 ▶ 171 142.171 BASC-II Profiles for Puerto Rican Children with Autism Spectrum Disorders. M. Vega<sup>1,2</sup>, E. Pabon<sup>1,2</sup>, J. Ruiz<sup>1,2</sup> and R. E. Oliveras-Rentas<sup>1,2</sup>, (1)Ponce Center for Autism, Ponce, PR, (2)Clinical Psychology Program, Ponce School of Medicine and Health Sciences, Ponce, PR
- 2:00 172 142.172 Brain and Mind: The Relationship Between Head Circumference Trajectories and Intelligence in Typically Developing Infants. J. C. Sullivan<sup>1</sup>, S. Baron-Cohen<sup>1</sup> and A. Humphrey<sup>1</sup>, Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom
- 3:00 173 142.173 Characteristics of Speech-Language Pathology Evaluations Abstracted During An Autism Prevalence Study. J. P. Zimmerman<sup>1</sup>, A. V. Bakian<sup>1</sup> and S. Shumway<sup>2</sup>, (1)Department of Psychiatry, University of Utah, Salt Lake City, UT, (2)Communication Disorders, University of Utah, Salt Lake City, UT

- 3:00 182 142.182 Action Understanding and Imitation of Actions with An Inferable Functional Outcome Level (IFOL) in Young Children with Autism Spectrum Disorders. M. Vanvuchelen<sup>1</sup>, Katholieke Universiteit Leuven – PHL-University College, Belgium, B 3000 Leuven, Belgium
- 1:00 183 142.183 The Interplay of Language on Executive Functions for Children with ASD. M. Akbar<sup>1</sup>, R. Loomis<sup>2</sup> and R. Paul<sup>3</sup>, (1)Yale Child Study Center, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT, (3)Yale Child Study Center, New Haven, CT
- 2:00 ▶ 184 142.184 Does Being Japanese-English Bilingual Affect Language Development in Children with Autism?. K. Gondo<sup>1</sup>, T. Matsui<sup>2</sup>, R. Yanagisawa<sup>3</sup>, H. Li<sup>4</sup> and M. Oi<sup>5</sup>, (1)Pedology, Kyoritsu Women's University, Tokyo, Japan, (2)Centre fo Research in International Education, Tokyo Gakugei University, Koganei, Japan, (3)Graduate School of Domestic Arts, Kyoritsu Women's University, Toyko, Japan, (4)United Graduate School of Child Development, Kanazawa University, Kanazawa, Japan, (5)13-1 Takaramachi, United Graduate School of Child Development, Osaka University, Kanazawa University and Hamamatsu University School of Medicine, Kanazawa, Japan
- 3:00 185 142.185 Verbal Fluency in Individuals with Autism Spectrum Disorder. D. B. R. and R. G. Schwartz, Department of Child Language-Hearing Sciences, CUNY Graduate Center, New York, NY
- 1:00 186 142.186 Do Children with Specific Language Impairment Have a Cognitive Profile Reminiscent of Autism? A Review of the Literature. L. J. Taylor<sup>1,2</sup>, M. T. Maybery<sup>1</sup> and A. Whitehouse<sup>1,2</sup>, (1)School of Psychology, University of Western Australia, Perth, Australia, (2)Telethon Institute for Child Health Research, Perth, Australia
- 2:00 187 142.187 Palm Reversals Are the Pronoun Reversals of Sign Language. A. Shield<sup>1</sup>, Psychology, Boston University, Boston, MA
- 3:00 188 142.188 Maternal and Paternal Speech to Children with Autism Spectrum Disorder. P. Venuti<sup>1</sup>, A. Bentenuto<sup>2</sup>, S. De Falco<sup>1</sup>, G. Esposito<sup>1</sup> and M. H. Bornstein<sup>3</sup>, (1)University of Trento, Trento, Italy, (2)University of Trento, Rovereto, Italy, (3)NIHCD, Bethesda, MD
- 1:00 189 142.189 Focus On the Positive: Adolescents with ASD and Their Impact On the Family. L. Berkovits<sup>1</sup>, S. Zeedyk<sup>2</sup>, S. Cohen<sup>2</sup> and J. Blacher<sup>3</sup>, (1)University of California, Los Angeles, CA, (2)University of California, Riverside, CA, (3)Graduate School of Education, University of California, Riverside, CA
- 2:00 190 142.190 Remembering Delayed Intentions in Autism Spectrum Disorders and Attention Deficit Hyperactivity Disorders: A Comparison. M. Altgassen<sup>1</sup> and A. Kretschmer<sup>2</sup>, (1)Technische Universitaet Dresden, Dresden, Germany, (2)Department of Psychology, Technische Universitaet Dresden, Dresden, Germany
- 3:00 191 142.191 Do Planning Aids Help to Remember? An Investigation of Prospective Memory and Implementation Intentions in Autism Spectrum Disorders. A. Kretschmer<sup>1</sup>, M. Altgassen<sup>2</sup>, P. Rendell<sup>3</sup> and S. Bølte<sup>4</sup>, (1)Technische Universitaet Dresden, Dresden, Germany, Rosswein, Germany, (2)Technische Universitaet Dresden, Dresden, Germany, (3)Australian Catholic University, Melbourne, Australia, Melbourne, Australia, (4)Department of Women's and Children's Health, Astrid Lindgren Children's Hospital, Q2:07, Center of Neurodevelopmental Disorders (KIND), Karolinska Institute, Stockholm, Sweden
- 1:00 192 142.192 Semantic Integration in Adults with Asperger Syndrome and Nonverbal LD. M. E. Stothers<sup>1</sup> and J. Oram Cardy<sup>2</sup>, (1)Health and Rehabilitation Sciences, The University of Western Ontario, London, ON, Canada, (2)School of Communication Sciences and Disorders, The University of Western Ontario, London, ON, Canada
- 2:00 193 142.193 Dense Recordings of Naturalistic Interactions Reveal Both Typical and Atypical Speech in One Child with ASD. I. Chin<sup>1</sup>, D. Rubin<sup>1</sup>, A. Tovar<sup>1</sup>, S. Vosoughi<sup>2</sup>, M. Cheng<sup>1</sup>, E. Potrzeba<sup>1</sup>, M. S. Goodwin<sup>2,3</sup>, D. Roy<sup>2</sup> and L. Naigles<sup>4</sup>, (1)Psychology, University of Connecticut, Storrs, CT, (2)Media Lab, Massachusetts Institute of Technology, Cambridge, MA, (3)Northeastern University, Boston, MA, (4)University of Connecticut, Storrs, CT
- 3:00 194 142.194 Semantic Priming in Children with High Functioning Autism: An Eye-Tracking Study. G. Gergis<sup>1</sup> and E. L. Bavin, School of Psychological Science, La Trobe University, Melbourne, Australia
- 1:00 ▶ 195 142.195 "What Just Happened?" – Individuals' Abilities to Infer Events From Behavioural Responses. D. Pillai<sup>1</sup>, E. Sheppard<sup>2</sup> and P. Mitchell<sup>3</sup>, (1)Semenyih, University of Nottingham, Selangor, Malaysia, (2)Department of Psychology, University of Nottingham Malaysia Campus, Selangor, Malaysia, (3)Psychology, University of Nottingham Malaysia Campus, Selangor, Malaysia
- 2:00 196 142.196 Longitudinal Changes in Pronoun Reversal in Children with ASD and TD Children. M. Cheng<sup>1</sup>, N. Khetrapal<sup>2</sup>, K. Demuth<sup>2</sup>, D. A. Fein<sup>1</sup> and L. Naigles<sup>1</sup>, (1)University of Connecticut, Storrs, CT, (2)Macquarie University, Sydney, Australia
- 3:00 197 142.197 Multisensory Speech Perception in High Functioning Children with Autism Spectrum Disorders. T. G. Woynaroski<sup>1</sup>, L. E. Dowell<sup>2</sup>, J. H. Foss-Feig<sup>3</sup>, R. A. Stevenson<sup>4</sup>, J. K. Siemann<sup>5</sup>, S. M. Camarata<sup>4</sup> and M. T. Wallace<sup>4</sup>, (1)Hearing and Speech Sciences, Vanderbilt University, Nashville, TN, (2)Vanderbilt University, Nashville, TN, United States, (3)Psychology, Vanderbilt University, Nashville, TN, (4)Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN, (5)Vanderbilt University, Nashville, TN
- 1:00 198 142.198 General and Specific Predictors of Understanding Tense/Aspect in Young Children with ASD. A. T. Tovar<sup>1</sup>, D. A. Fein<sup>2</sup> and L. Naigles<sup>3</sup>, (1)Psychology, University of Connecticut, Storrs, CT, (2)Department of Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT
- 2:00 199 142.199 Decoding Abstract Picture-Referent Relations: Are Low-Functioning Children with Autism Naïve Realists?. M. L. Allen<sup>1</sup> and C. Hartley, Psychology, Lancaster University, Lancaster, United Kingdom



- 3:00 200 142.200 Verbal Problem-Solving in Deafness and Autism Spectrum Disorders. B. Alderson-Day<sup>1</sup>, The University of Edinburgh, Edinburgh, United Kingdom
- 1:00 201 142.201 WISC-IV Vs. WISC-III: Cognitive Profile in Autistic, Asperger and Typically Developing Children. A. M. Nader<sup>1,2</sup>, P. Jelenic<sup>1</sup> and I. Soulières<sup>1,2</sup>, (1)Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Department of Psychology, University of Quebec in Montreal, Montreal, QC, Canada
- 2:00 ▶ 202 142.202 Narrative Ability in Children with Asperger Syndrome. S. W. Cho<sup>1</sup>, K. S. Lee<sup>2</sup>, Y. J. Shin<sup>3</sup> and K. J. Joo<sup>4</sup>, (1)1 Sinsu-dong Mapo-Ku, Sogang University, Seoul, South Korea, (2)Department of Rehabilitation, Hanshin University, Seoul, South Korea, (3)Department of Psychiatry, Yonsei University, Seoul, South Korea, (4)Linguistics, University of Hawaii at Manoa, Honolulu, HI
- 3:00 203 142.203 Development of Interactional Synchrony in High- and Low-Risk Infants During Mother Infant Face to Face Interactions. S. Glazer<sup>1</sup>, P. Lewis<sup>1</sup>, J. B. Northrup<sup>2</sup>, A. Klin<sup>1</sup> and W. Jones<sup>1</sup>, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (2)University of Pittsburgh, Pittsburgh, PA
- 1:00 ▶ 204 142.204 Parental Perceptions and Concerns Over Their Child's ASD-Related Behaviors: A Cultural Perspective. P. Yang<sup>1</sup>, L. C. Lee<sup>2</sup>, I. T. Li<sup>3</sup>, R. A. Harrington<sup>2</sup>, C. L. Chang<sup>4</sup>, P. C. Tsai<sup>2</sup> and F. W. Lung<sup>5</sup>, (1)Psychiatry, Kaohsiung Medical University, Kaohsiung, Taiwan, (2)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Calo Hospital, Pingtung, Taiwan, (4)Psychiatry, Kaohsiung Armed Forces General Hospital, Kaohsiung, Taiwan, (5)Taipei City Psychiatric Center, Taipei City Hospital, Taipei, Taiwan
- 2:00 205 142.205 Analysis of Handwriting Fluency in Children with Autism. B. Dirlikov<sup>1</sup>, M. B. Nebel<sup>1,2</sup>, M. M. Talley<sup>1</sup>, A. J. Bastian<sup>1,2</sup> and S. H. Mostofsky<sup>1,2</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD
- 3:00 206 142.206 Parent-Child Interaction and Child Behavior: Children with and without Autism. H. N. Liming<sup>1</sup>, B. J. Wilson<sup>1</sup>, E. L. Haven<sup>1</sup>, M. N. Will<sup>1</sup>, U. Hussein<sup>2</sup> and E. Choe<sup>2</sup>, (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Psychology, Seattle Pacific University, Seattle, WA
- 1:00 207 142.207 Self-Regulatory Strategies During Delay of Gratification Paradigm in Children with Autism Spectrum Disorders. K. E. McKee<sup>1</sup>, J. Schoenfield-McNeil<sup>1</sup>, B. J. Wilson<sup>2</sup>, J. L. Berg<sup>1</sup>, J. Sparrow<sup>1</sup>, M. Zurawski<sup>1</sup> and K. M. Kloes<sup>1</sup>, (1)Seattle Pacific University, Seattle, WA, (2)Clinical Psychology, Seattle Pacific University, Seattle, WA
- 2:00 208 142.208 A Fifteen-Year Longitudinal Case Study of the Development of An Asperger Syndrome Obsession. L. Vuletic<sup>1</sup>, Toronto, ON, Canada
- 3:00 209 142.209 Gesture and Language Development in Infant Siblings of Children with ASD. E. S. LeBarton<sup>1</sup> and J. M. Iverson, University of Pittsburgh, Pittsburgh, PA
- 1:00 210 142.210 Learning Words by Watching: A Comparison of Eye-Tracking and In-Person Measures. J. Lee<sup>1</sup>, K. Gillespie-Lynch<sup>2</sup>, R. Elias<sup>3</sup>, P. Escudero<sup>4</sup>, T. Hutman<sup>5</sup> and S. P. Johnson<sup>1</sup>, (1)University of California, Los Angeles, CA, (2)Psychology, UCLA, Los Angeles, CA, (3)University of California, Berkeley, CA, (4)University of Western Sydney, Sydney, Australia, (5)Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA
- 2:00 211 142.211 Cross-Situational Word Learning In Children with ASD. H. Akechi<sup>1</sup>, Y. Kikuchi<sup>2</sup>, Y. Tojo<sup>3</sup>, H. Osana<sup>4</sup> and T. Hasegawa<sup>1</sup>, (1)The University of Tokyo, Tokyo, Japan, (2)Japan Society for the Promotion of Science, Tokyo, Japan, (3)Ibaraki University, Mito, Japan, (4)Musashino Higashi Gakuen, Tokyo, Japan
- 3:00 212 142.212 High-Functioning Children with Autism Flexibly Use Prosody to Parse Syntactic Ambiguity. N. Hahn<sup>1</sup> and J. Snedeker, Psychology, Harvard University, Cambridge, MA
- 1:00 213 142.213 Parent-Adolescent Relationships in the Context of Autism Spectrum Disorders. M. M. Abdullah<sup>1</sup> and W. A. Goldberg, Psychology and Social Behavior, University of California, Irvine, CA
- 2:00 214 142.214 Picture Exchange Communication System: Moderators of Collateral Speech Gains. S. Petersen-Brown<sup>1</sup> and X. Qian, University of Minnesota, Minneapolis, MN

**An Update on the DSM-5 Recommendations for Autism Spectrum Disorder and Other Neurodevelopmental Disorders**

4:00 PM - 5:00 PM - Grand Ballroom Centre

*Presenters:* Susan E Swedo, M.D. (Chair) and Members of the DSM-5 Neurodevelopmental Disorders Workgroup

Recommended changes to the diagnostic criteria for Autism Spectrum Disorder (ASD) have received a great deal of recent media attention, including alarming headlines in the NY Times declaring, "New Autism Diagnosis Will Exclude Many," with the article specifically stating, "65% of individuals with high-functioning autism." Will the new criteria truly "nip the autism epidemic in the bud" as reported? Or, are the recommended changes more likely to improve both specificity and sensitivity of the diagnosis of autism and related disorders? Attendees at this session will learn about preliminary results of the DSM-5 field trials on ASD and examine similarities and differences in the DSM-IV-TR and proposed DSM-5 diagnostic criteria. Following a brief presentation on ASD by Dr. Swedo, a panel composed of Neurodevelopmental Workgroup members will answer questions from the audience about the recommended diagnostic criteria for ASD and the other neurodevelopmental disorders in DSM-5.

**Scientific Panels**

**143 - CNVs in ASD – Molecular Findings, Clinical Outcomes and Ethical Implications**

4:00 PM - 5:00 PM - Grand Ballroom East

*Organizer:* L. Gallagher; *Trinity College Dublin*

The panel will present an integrated ‘State of the Art’ discussion of autism genetics illustrated by past and recent findings from the Autism Genome Project (AGP). Our emerging data highlights the complexity of ASD genetics and relative contributions of rare and common genetic variation to ASD aetiology. We will present evidence supporting the role of rare Copy Number Variants (CNV) in ASD in a proportion of cases. Importantly our data demonstrates convergence on functionally related pathways helping to piece together the neurobiological underpinnings of the condition. We will explore the phenotypic heterogeneity that exists within ASD, possible overlaps with other neurodevelopmental disorders and describe our analyses of the complex relationship between genetics and clinical outcomes. Our discussion will consider the challenges to overcome to interpret these relationships and their clinical translation in the form of improved diagnostics and treatments for ASD. This emerging knowledge carries a set of ethical considerations and challenges to be worked through in the best interests of individuals with ASD and their families. We will illustrate this through the outcomes of recent investigations of parental understanding and desire for genetic testing in ASD.

- 4:00 143.001 The Impact of Rare Genomic Variants in Autism Spectrum Disorders – Evidence for Converging Pathways. D. Pinto<sup>1</sup>, S. W. Scherer and the Autism Genome Project Consortium, The Centre for Applied Genomics, The Hospital for Sick Children, Toronto, ON, Canada
- 4:15 143.002 Common Variants for Schizophrenia Do Not Predict Autism. J. Vorstman<sup>1</sup>, Dept of Psychiatry, University Medical Center Utrecht, Utrecht, Netherlands
- 4:30 143.003 Relating Copy Number Variation to Phenotype –Bridging Phenotype Gaps. L. Gallagher<sup>1</sup> and A. K. Merikangas<sup>2</sup>, (1)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland, (2)Institute of Molecular Medicine, Trinity College Dublin, Dublin, Ireland

**Scientific Panels**

**144 - Social Perception in Toddlers with ASD: Methodological and Conceptual Considerations**

4:00 PM - 5:00 PM - Grand Ballroom West

*Session Chair:* K. Chawarska; *Yale University School of Medicine*

Deficits in social attention constitute one of the core symptoms of autism in toddlers. While a number of hypotheses have been advanced, the mechanisms underlying poor attention to people in naturalistic settings are poorly understood. In recent years, this area of research has been actively investigated using eye-tracking technology. Studies presented in this panel examine factors responsible for toddlers’ atypical attention to people (Talks#1,2,&4), investigate individual variability in social attention and their links to phenotypic features (Talk#3&4), and illustrate the utility of fine-

grained and less assumption-laden analytical methods to further our understanding of the factors driving visual behavior of toddlers with ASD (Talks#2&4) based on a series of conceptually- linked tasks. This panel will address several methodological considerations inherent in eye- tracking methodology: importance of accounting for both top-down and bottom-up influences on visual attention, approaches to parsing variability within ASD samples, as well as methodological aspects of analyzing eye-tracking on dynamic scenes. Taken together, this panel will 1) present a comprehensive account on abnormalities of visual scanning in response to complex social scenes, 2) address the issue of heterogeneity of attentional responses; and 3) offer insights into fine-grained analytic approaches to analysis of dynamic eye-tracking data.

- 4:00 144.001 Suppressed Attentional Response to Dyadic Social Cues in Infants with Autism. K. Chawarska<sup>1</sup>, S. Macari, D. Campbell and F. Shic, Child Study Center, Yale University School of Medicine, New Haven, CT
- 4:15 144.002 Diminished Saliency of Social Stimuli, Not Enhanced Saliency of Nonsocial Stimuli in Young Children with ASD. S. Macari<sup>1</sup>, F. Shic, D. Campbell and K. Chawarska, Child Study Center, Yale University School of Medicine, New Haven, CT
- 4:30 144.003 Subtyping Toddlers with ASD Based on Their Scanning Patterns in Response to Dyadic Bids for Attention. D. Campbell<sup>1</sup>, F. Shic<sup>1</sup>, S. Macari<sup>1</sup>, J. Chang<sup>2</sup> and K. Chawarska<sup>1</sup>, (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Department of Statistics, Yale University, New Haven, CT
- 4:45 144.004 Scan Pattern Deviations in Toddlers with ASD: A Framework Based on Cohesion. F. Shic<sup>1</sup>, D. Campbell, S. Macari and K. Chawarska, Child Study Center, Yale University School of Medicine, New Haven, CT

**Scientific Panels**

**145 - Lullaby and Good Night or Tomorrow Is Gonna Be a Tough Day: Research Predictions for the Influence of Disturbed Sleep and What We Can Do**

4:00 PM - 5:00 PM - Osgoode Ballroom East

*Session Chair:* K. A. Schreck; *Penn State University – Harrisburg*

The treatment of daytime behavior for people with autism has challenged clinicians for many years. Most researchers and clinicians have solely concentrated on the treatment of what happens during the day – overlooking the possible influence of sleep on these behaviors. This panel provides evidence to support the relationship of daytime problems and symptoms to disrupted sleep for people with autism. Specifically, the panel will review the relationships of sleep disruption with a) cognitive and adaptive behavior, b) mental health (e.g., anxiety and depression), and c) behavior excesses (e.g., aggression). The Panel will also address the research-based efficacy for a parent training protocol for treating sleep problems in children with autism.

- 4:00 145.001 Bad Nights and Biting Bed Bugs: The Effect of a Bad Night's Sleep on Children with Autism's Daytime Behavior. K. A. Schreck<sup>1</sup>, M. Taylor<sup>2</sup>, P. Kumar<sup>3</sup>, L. Knapp<sup>4</sup> and J. A. Mulick<sup>5</sup>, (1)Psychology, Penn State University – Harrisburg, Hummelstown, PA, (2)Psychology, Penn State University – Harrisburg, Middletown, PA, (3)Applied Behavior Analysis, Penn State University, Middletown, PA, (4)Penn State University-Harrisburg, Middletown, PA, (5)1581 Dodd Drive, Nationwide Children's Hospital & The Ohio State University, Columbus, OH
- 4:15 145.002 No Sweet Dreams for Children with Autism: The Day After A Bad Night's Sleep May Not Be So Sweet Either. M. Taylor<sup>1</sup>, K. A. Schreck<sup>2</sup> and J. A. Mulick<sup>3</sup>, (1)Psychology, Penn State University - Harrisburg, Middletown, PA, (2)Psychology, Penn State University-Harrisburg, Hummelstown, PA, (3)Nationwide Children's Hospital & The Ohio State University, Columbus, OH
- 4:30 145.003 Sleep, Anxiety and Depression in High-Functioning Adolescents with Autism Spectrum Disorder (HFASD). A. L. Richdale<sup>1</sup>, E. Baker<sup>2</sup>, M. Short<sup>3</sup> and M. Gradisar<sup>3</sup>, (1)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (2)Psychology, La Trobe University, Bundoora, Australia, (3)Psychology, Flinders University, Adelaide, Australia
- 4:45 145.004 Parent-Based Sleep Education Program for Children with Autism — Positive Impact on the Child and Family. B. A. Malow<sup>1</sup>, A. M. Reynolds<sup>2</sup>, S. Weiss<sup>3</sup>, K. Adkins<sup>1</sup>, K. A. Artibee<sup>1</sup>, T. Clemons<sup>4</sup>, D. B. Fawkes<sup>1</sup>, K. Frank<sup>1</sup>, S. E. Goldman<sup>1</sup>, R. Hundley<sup>5</sup>, T. Katz<sup>6</sup>, A. Loh<sup>7</sup>, N. Madduri<sup>8</sup> and D. Wofford<sup>1</sup>, (1)Neurology/Sleep, Vanderbilt Medical Center, Nashville, TN, (2)University of Colorado Denver, Aurora, CO, (3)Hospital for Sick Children, Toronto, ON, Canada, (4)EMMES Corp, Rockville, MD, (5)Vanderbilt University, Pediatrics, Nashville, TN, (6)University of Colorado, Aurora, CO, (7)Surrey Place, Toronto, ON, Canada, (8)Pediatrics, Vanderbilt University, Nashville, TN

- functional connectivity, classification algorithms, relations between high definition fiber tracking and behavior, and the effects of disrupted brain circuitry on neural learning processes.
- 5:00 146.001 Effects of Disrupted Neural Circuitry on Learning Processes in Autism. S. E. Schipul<sup>1</sup> and M. A. Just, Center for Cognitive Brain Imaging, Carnegie Mellon University, Pittsburgh, PA
- 5:15 146.002 Relating Alterations in White Matter Circuitry to Cognitive Performance. M. A. Just<sup>1</sup> and T. A. Keller, Center for Cognitive Brain Imaging, Carnegie Mellon University, Pittsburgh, PA
- 5:30 146.003 Large-Scale Cortical Functional Connectivity in Children with Autism Spectrum Disorders. B. Deen<sup>1</sup> and K. A. Pelphrey<sup>2</sup>, (1)Department of Brain and Cognitive Sciences, MIT, Cambridge, MA, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT
- 5:45 146.004 Autism Classification Using Local, Global, and Connectome-Wide Measures of Functional Connectivity. J. D. Rudie<sup>1,2</sup>, J. B. Colby<sup>2,3</sup>, Z. Shehzad<sup>4</sup>, P. M. Douglas<sup>5</sup>, J. A. Brown<sup>2</sup>, D. Beck-Pancer<sup>1,5</sup>, L. M. Hernandez<sup>1,5</sup>, D. H. Geschwind<sup>2,3</sup>, P. M. Thompson<sup>2,3</sup>, M. S. Cohen<sup>2,5</sup>, S. Y. Bookheimer<sup>2,5</sup> and M. Dapretto<sup>1,2,5</sup>, (1)Brain Mapping Center, University of California, Los Angeles, CA, (2)Interdepartmental Neuroscience Program, University of California, Los Angeles, CA, (3)Department of Neurology, University of California, Los Angeles, CA, (4)Department of Psychology, Yale University, New Haven, CT, (5)Department of Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, CA

**Scientific Panels**

**146 - Disrupted Neural Circuitry in Autism**

5:00 PM - 6:00 PM - Grand Ballroom East

*Session Chair:* S. E. Schipul; *Center for Cognitive Brain Imaging, Carnegie Mellon University*

Just as autism affects many seemingly unrelated areas of behavior, brain imaging studies have revealed that atypical patterns of activation occur in many distinct regions of the brain. Such findings suggest that atypical neural functioning in autism is not restricted to one region, but rather occurs throughout the brain. Furthermore, numerous brain imaging studies have revealed converging evidence of disrupted connectivity between brain regions in autism. Such evidence includes lower frontal-posterior functional connectivity during task performance, lower structural integrity of white matter pathways, and behavioral impairments on cognitive tasks requiring the integration of distinct brain regions. This Scientific Panel will present recent work refining this issue through a variety of methods, including resting state

**Scientific Panels**

**147 - Challenges for Children with ASD in School: Teaching Strategies and Learning Outcomes**

5:00 PM - 6:00 PM - Grand Ballroom West

*Session Chair:* A. S. Carter; *University of Massachusetts – Boston*

Making school days happy days for children with autism spectrum disorders has become more of a reality, but these children still face academic challenges and fragile student-teacher relationships. These three talks look at aspects of academic engagement — including relationships with teachers, task engagement, academic performance, and in-class attention — across the early childhood, middle childhood, and secondary school years for children with ASD. In the first paper, the author will present a model of successful transition to the early school years that hypothesizes school and teacher relationships as moderators of child outcome of success in literacy. In the second paper, the author addresses school engagement in minimally verbal children participating in a literacy task. The author of the third paper will address challenges of communication in the natural classroom setting, also with minimally verbal children, using PECS. In the fourth paper, the author will present data on the classroom engagement of secondary school students via public speaking and a virtual reality paradigm. The four research teams represented in this scientific panel utilize a variety of



methodological approaches including single case design, within group parametric analyses and multi-level modeling. Discussion in each case will focus on implications for current or future interventions.

- 5:00 147.001 Smooth Sailing: Charting Successful Transition in the Early School Years for Children with ASD. J. Blacher<sup>1</sup> and A. Eisenhower<sup>2</sup>, (1)Graduate School of Education, University of California, Riverside, CA, (2)Department of Psychology, University of Massachusetts, Boston, MA
- 5:15 147.002 Academic Engagement of Minimally Verbal Children with ASD At School. K. Krueger<sup>1</sup>, K. Goods<sup>2</sup>, C. Mucchetti<sup>2</sup> and C. Kasari<sup>3</sup>, (1)Education, UCLA, Los Angeles, CA, (2)Semel Institute, Los Angeles, CA, (3)University of California, Los Angeles, CA
- 5:30 147.003 Academic Engagement of Minimally Verbal Children with ASD At School: Virtual Reality Paradigm with Secondary Students. M. V. Gwaltney<sup>1</sup>, N. MacIntyre<sup>1</sup>, W. Jarrold<sup>2</sup> and P. C. Mundy<sup>2</sup>, (1)Learning and Mind Sciences, UC Davis School of Education, Davis, CA, (2)M.I.N.D. Institute, UC Davis, Sacramento, CA
- 5:45 147.004 Communication Intervention in Real-Life Settings: Outcomes and Challenges. P. Howlin<sup>1</sup>, K. Gordon<sup>2</sup>, G. Pasco<sup>3</sup> and T. Charman<sup>3</sup>, (1)Institute of Psychiatry, King's College London, London, United Kingdom, (2)Great Ormond Street Hospital, London, United Kingdom, (3)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom

### Scientific Panels

#### 148 - Implications of DSM-5 Criteria for the Recognition of Autism Spectrum Disorders: Clinical and Epidemiological Considerations

5:00 PM - 6:00 PM - Osgoode Ballroom East

*Session Chair:* D. H. Skuse; *Institute of Child Health, University College - London*

DSM-5 draft criteria, revised and posted January 2011, aim to simplify the diagnostic criteria used to define the range of autistic disorders subsumed under the heading Pervasive Developmental Disorders in DSM-IV-TR. The proposal to combine Asperger disorder, pervasive developmental disorder – not otherwise specified (PDD-NOS), and autistic disorder into one new category of ASD has major implications for recognition and service provision. One critical assumption underlying the revision is that autism is a heterogeneous condition, with a considerable range of clinical severity. The range of associated intellectual disability does not wholly account for that variance in severity. Evidence for the validity of conventional subtypes, defined by DSM-IV-TR is inconsistent. A second assumption is that diagnoses within the autism spectrum may be best served by combining categorical with dimensional approaches to summarizing symptom profiles. A third assumption is that diagnostic exclusion rules should be relaxed, insofar as it makes clinical sense separately to record comorbidities. In this Panel we aim to challenge the evidence both for and against these assumptions, bringing together recent research based upon epidemiological data on autism traits in the general population and from clinically identified populations in the USA and Europe.

- 5:00 148.001 The Construct Validity of Proposed Criteria for DSM-5 Autism Spectrum Disorder. W. P. Mandy<sup>1</sup>, T. Charman<sup>2</sup> and D. H. Skuse<sup>3</sup>, (1)University College London, London, United Kingdom, (2)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (3)Behavioural and Brain Sciences, Institute of Child Health, University College, London, United Kingdom
- 5:15 148.002 Links Between Autism Spectrum Disorders and ADHD Symptoms Trajectories: Recent Evidence and Implications for Exclusion Rules in DSM-5. B. St. Pourcain<sup>1</sup>, W. P. Mandy<sup>2</sup>, J. Heron<sup>1</sup>, J. Golding<sup>3</sup>, G. Davey-Smith<sup>1</sup> and D. H. Skuse<sup>4</sup>, (1)ALSPAC/MRC CAiTE, School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)University College London, London, United Kingdom, (3)ALSPAC/MRC CAiTE, University of Bristol, Bristol, United Kingdom, (4)Behavioural and Brain Sciences, Institute of Child Health, University College, London, United Kingdom
- 5:30 148.003 Phenotypic and Cognitive Overlap Between Autism Spectrum Disorder and Attention Deficit Hyperactivity Disorder. J. K. Buitelaar<sup>1</sup>, A. Oerlemans<sup>2</sup>, D. van Steijn<sup>2</sup> and N. N. J. Rommelse<sup>3</sup>, (1)Department of Cognitive Neuroscience, Donders Institute for Brain, Cognition and Behavior, Radboud University, Nijmegen, Netherlands, (2)Donders Centre for Neuroscience, Donders Institute, Radboud University, Nijmegen, Netherlands, (3)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands
- 5:45 148.004 The Concept of Dimensionality, Applied to Proposed DSM-5 Criteria for Autism Spectrum Disorder. T. W. Frazier<sup>1</sup>, E. A. Youngstrom<sup>2</sup>, L. Speer<sup>3</sup>, R. A. Embacher<sup>4</sup>, P. A. Law<sup>5</sup>, J. N. Constantino<sup>6</sup>, R. Findling<sup>7</sup>, A. Y. Hardan<sup>8,9</sup> and C. Eng<sup>10</sup>, (1)Center for Autism and Center for Pediatric Behavioral Health, Cleveland Clinic, Cleveland, OH, (2)Psychology, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Center for Autism, Cleveland Clinic, Cleveland, OH, (4)Cleveland Clinic Center for Autism, Cleveland, OH, (5)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (6)Washington University School of Medicine, Saint Louis, MO, (7)University Hospitals Case Medical Center, Cleveland, OH, (8)Stanford University School of Medicine/Lucile Packard Children's Hospital, Stanford, CA, (9)Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (10)Genomic Medicine Institute, Cleveland Clinic, Cleveland, OH

# SATURDAY May 19, 2012 - AM

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6:30-3:00P	Registration – Lower Concourse			
7:00-8:30A	Coffee & Pastries – Grand Ballroom Foyer			
7:00-8:30A	<b>SIG –</b> Dominion Ballroom South	<b>SIG –</b> Dominion Ballroom North	<b>SIG –</b> Osgoode East	<b>SIG –</b> VIP Room
8:00-1:00P	<b>Exhibits</b> – Sheraton Hall			
8:45-9:00A	Introduction: CIHR – Grand Ballroom			
9:00-9:45A	<b>Keynote Address:</b> Alan Evans – Structural Connectivity in Neurodevelopment – Grand Ballroom			<b>8:00-12:30P</b> <b>Poster Session –</b> Sheraton Hall
9:45-10:15A	Break – Sheraton Hall			
10:15-12:15P	<b>IES –</b> Grand Ballroom Centre Challenges and Opportunities in Conducting Global ASD Research			Clinical Phenotype : Measurement Clinical Phenotype: Medical & Biological Profiles Comorbid Medical Conditions Comorbid Psychiatric & Behavioral Conditions Core Deficits & Symptoms Core Deficits & Symptoms II Core Deficits & Symptoms III
10:15-12:15P	<b>IES –</b> Dominion Ballroom Anxiety in Autism Spectrum Disorders: From Biology to Treatment			
10:15-12:15P	<b>Oral Session –</b> Grand Ballroom East Brain Imaging: Development, Structure, and Genetics	<b>Oral Session –</b> Grand Ballroom West Electrophysiological Correlates of Autism Spectrum Disorder	<b>Oral Session –</b> Osgoode Ballroom East Medical, Psychiatric and Behavioral Comorbidities in ASD	
12:15-1:30P	Lunch Break – On Your Own			
12:30-1:30 P	<b>INSAR Business Meeting</b> – Grand Ballroom Centre			

## Special Interest Groups (SIGs)

7:00 AM - 8:30 AM

Location listed under each session

Final SIG – last year in multiple year rotation

### New SIG: Autism Social, Ethical, and Legal Research

*Co-Chairs:* Dr. Liz Pellicano, *Institute of Education, University of London*, Dr. Bryna Siegel, *University of California San Francisco* and Dr. Michael Yudell, *Drexel University*

Dominion Ballroom South

Scientists believe they are making great strides towards understanding autism. These developments, however, have prompted scrutiny from autistics, parents, ethicists and researchers alike.

Debates now rage about the real-life implications of emerging scientific discoveries. Should we, for example, continue to search for ways to “prevent” or “cure” autism? What place should the broader autistic community have in shaping the research agenda? What are best practices for communicating “risk” information? And, how should we define what is a “good intervention” – one that is “medically necessary” and so financially supported by public and private health authorities? This SIG aims to create a space to debate these crucial issues.

### New SIG: Sensory and Motor Features in Autism

*Co-Chairs:* Dr. Alison Lane, *The Ohio State University* and Dr. Justin Williams, *University of Aberdeen Medical School*

*Co-Facilitators:* Dr. Carissa Cascio, *Vanderbilt University*, Dr. Grace Baranek, *The University of North Carolina Chapel Hill*, Dr. Roseann Schaaf, *Thomas Jefferson University*

Dominion Ballroom North

This new SIG will focus on the characterization of sensory and motor features and their association with autism symptoms, interventions, and pathogenesis. This year, we hope to identify methods of forging productive collaborations between sensory and motor researchers, agree the best ways of further developing our existing approaches, expand knowledge of sensory and motor-related research and establish needs for mentorship in this field.

### New SIG: Female Profile in ASD

*Co-Chairs:* Alexandra Head, *Deakin University, Australia* and Dr. William Mandy, *University College, London*

Osgoode Ballroom East

There is growing awareness that ASD manifests differently in males and females. Current conceptualizations of ASD are largely based on male cases, and this may have led to missing phenotypic features that are unique to females with ASD. This SIG aims to address this knowledge gap.

**Final SIG: EEG/MEG in Autism**

*Chair: Sara Jane Webb, Ph.D., University of Washington*

VIP Room

This SIG aims to allow more investigators to engage in successful research addressing hypotheses about the timing of brain functioning, alteration in resting and active brain states, and the potential under and over connectivity of the brain in individuals with autism. The final meeting of our SIG will address: (1) *Setting the Bar*: Promoting the highest quality research by a discussion of guidelines for using EEG/MEG to study autism, including discussion of methods standards, how to support multi-site collaborations, and create training opportunities. (2) *Building Identity*: Discussion of how to create a forum for scientific training, collaboration, and dissemination. (3) *Next Generation*: Continuing to foster mentorship and collaboration by hosting an expertise panel on the key theoretical issues in our field.

**Keynote Address**

**149 - Structural Connectivity in Neurodevelopment**

9:00 AM - 9:45 AM - Grand Ballroom

*Speaker: A. C. Evans; Montreal Neurological Institute*

The NIH MRI Study of Normal Brain Development is a multi-centre, mixed cross-sectional and longitudinal study of anatomical and behavioural maturation in 500 typically-developing children ages 0-18 years. The database has been made publicly available since 2007 and has gone through five releases by 2011. This talk will review recent work on:

- (i) age-appropriate structural atlas.
- (ii) Cortical correlates of behavioral metrics, e.g., IQ, testosterone level, aggressivity/anxiety.
- (iii) age-related changes in structural network topology derived from cortical thickness analysis.

**Invited Educational Symposium**

**150 - Challenges and Opportunities in Conducting Global ASD Research**

10:15 AM - 12:15 PM - Grand Ballroom Centre

*Session Chair: M. Yeargin-Allsopp; National Center on Birth Defects & Developmental Disabilities*

Researchers have long agreed that autism occurs in families across races and socioeconomic backgrounds and, based on the presence of autism organizations in more than 100 countries, there is clear evidence that a constellation of behaviors has been recognized as "autism" on every continent. In order to both advance our understanding of ASD and develop interventions that meet this global need, there is a need for more research in diverse areas of the world. The conduct of such studies is not without challenges, however. The purpose of this Educational Symposium is to raise audience understanding of the complex theoretical, methodological, and ethical issues in conducting research on ASD in other countries, particularly those which are non-Western and/or low and middle income. Featured speakers include three individuals with extensive experience in both a clinical and research setting, representing Uganda, Argentina and India. The researchers will discuss three challenges to autism research common in nearly all low and middle income countries.

10:15 150.001 Cross Cultural Issues in Tool Adaptation, Screening and Assessment of ASD Research Globally. A. Kakooza<sup>1</sup>, J. Grether<sup>2</sup>, L. A. Croen<sup>3</sup>, R. L. Hansen<sup>4</sup>, C. Karamagi<sup>5</sup>, S. Kiguli<sup>6</sup>, E. Trevathan<sup>7</sup>, K. S. Smith<sup>8</sup>, and K. Ssebbyala<sup>6</sup>, (1)Department of Pediatrics, Makerere University, School of Medicine, Kampala, Uganda, (2)Sequoia Foundation, La Jolla, CA, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)Davis, M.I.N.D. Institute, Sacramento, CA, (5)Clinical Epidemiology Unit, Makerere College of Health Sciences, Kampala, Uganda, (6)Pediatrics and Child Health, Makerere College of Health Sciences, Kampala, Uganda, (7)School of Public Health, St. Louis University, St. Louis, MO, (8)California Department of Public Health, Richmond, CA

10:45 ▶ 150.002 Developing Model Collaborations Between U.S. and Non-U.S. Researchers In Conducting ASD Research Globally. A. Rattazzi<sup>1</sup>, M. L. Massolo<sup>2</sup>, K. A. Gutson<sup>1</sup>, C. Plebst<sup>1</sup>, V. M. Ensenat<sup>1</sup> and L. A. Croen<sup>2</sup>, (1)PANAACEA, Buenos Aires, Argentina, (2)Kaiser Permanente Division of Research, Oakland, CA

11:15 150.003 Ethical Considerations in Conducting ASD Research in Low and Middle Income Countries. N. Singhal<sup>1</sup>, T. C. Daley<sup>2</sup> and I. Singh<sup>3</sup>, (1)Action for Autism, National Centre for Autism, Delhi, India, (2)Westat, Durham, NC, (3)London School of Economics and Political Science, London, United Kingdom

11:45 150.004 Introduction. R. R. Grinker<sup>1</sup>, George Washington University, Washington, D.C.

**Invited Educational Symposium**

**151 - Anxiety In Autism Spectrum Disorders: From Biology to Treatment**

10:15 AM - 12:15 PM - Dominion Ballroom

*Session Chair: J. D. Herrington; Children's Hospital of Philadelphia*

It is increasingly clear that anxiety is a common and important co-occurring condition in ASD. The learning goals for this symposium range from the neurobiological underpinnings of anxiety and their relation to ASD, to comparisons of the clinical phenotype and treatment (behavioral and pharmacological) of anxiety disorders in children with and without ASD. This integration of basic and applied sciences, medical and psychological perspectives, will help to bridge gaps in our understanding of anxiety in ASD and facilitate novel directions for research.

10:15 151.001 Enhanced Cognitive Behavioral Treatment for Anxiety In Youth with ASD. J. J. Wood<sup>1</sup>, University of California, Los Angeles, CA

10:45 151.002 Anxiety In Youth with and without ASD: Commonalities and Variations. C. M. Puleo<sup>1</sup>, L. Berry<sup>2</sup> and P. C. Kendall<sup>1</sup>, (1)Psychology, Temple University, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

11:15 151.003 Toward Better Psychopharmacological Management of Anxiety In ASD. L. Scahill<sup>1</sup>, School of Medicine, Yale University, New Haven, CT

11:45 151.004 Common Endophenotypes: The Role of Anxiety Disorders In Understanding the Neurobiology of ASD. J. D. Herrington<sup>1</sup>, Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA



**Oral Sessions**

**152 - Brain Imaging: Development, Structure, and Genetics**

10:15 AM - 12:15 PM - Grand Ballroom East

- 10:15 152.001 Blunted Trajectories of White Matter Development Associated with Autism in High-Risk Infants. J. J. Wolff<sup>1</sup>, G. Gerig<sup>2</sup>, H. Gu<sup>3</sup>, J. T. Elison<sup>4</sup>, K. Botteron<sup>5</sup>, S. R. Dager<sup>6</sup>, G. Dawson<sup>7</sup>, H. C. Hazlett<sup>8</sup>, S. Paterson<sup>9</sup>, R. T. Schultz<sup>10,11</sup>, M. Styner<sup>12</sup>, L. Zwaigenbaum<sup>13</sup>, J. Piven<sup>14,15</sup> and I. B. I. S. Network<sup>16</sup>, (1)Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (2)University of Utah, Salt Lake City, UT, (3)University of North Carolina, Chapel Hill, NC, (4)California Institute of Technology, Pasadena, CA, (5)Washington University School of Medicine, St. Louis, MO, (6)University of Washington, Seattle, WA, (7)University of North Carolina, Autism Speaks, Chapel Hill, NC, (8)Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (9)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (10)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (11)Pediatrics & Psychiatry, University of Pennsylvania, Philadelphia, PA, (12)UNC, Chapel Hill, NC (13)University of Alberta, Edmonton, AB, Canada, (14)Psychiatry, University of North Carolina, Chapel Hill, NC, (15)The Carolina Institute for Developmental Disabilities, University of North Carolina, Chapel Hill, NC, (16)Autism Center of Excellence, Chapel Hill, NC
- 10:30 152.002 Enlarged Cortical Surface Area in Autistic Infants. K. Campbell<sup>1</sup>, W. Thompson<sup>2</sup>, S. Solso<sup>1</sup>, K. Pierce<sup>1</sup>, M. Javier<sup>1</sup>, J. Young<sup>1</sup>, M. Mayo<sup>1</sup>, S. Spendlove<sup>1</sup>, C. Carter<sup>1</sup>, M. Weinfeld<sup>1</sup> and E. Courchesne<sup>1</sup>, (1)Department of Neurosciences and Autism Center of Excellence, University of California, San Diego, La Jolla, CA, (2)Department of Psychiatry and Autism Center of Excellence, University of California, San Diego, CA
- 10:45 152.003 Microglial Activation in Adults with Autism Spectrum Disorders. K. Nakamura<sup>1</sup>, K. Suzuki<sup>2</sup>, Y. Ouchi<sup>3</sup>, M. Tsujii<sup>4</sup>, G. Sugihara<sup>2</sup>, Y. Iwata<sup>1</sup>, K. Matsumoto<sup>2</sup>, K. Takebayashi<sup>2</sup>, T. Wakuda<sup>1</sup>, T. Sugiyama<sup>5</sup>, Y. Yoshihara<sup>1</sup> and N. Mori<sup>1</sup>, (1)Psychiatry and Neurology, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (3)Molecular Imaging Frontier Research Center, Hamamatsu University School of Medicine, Hamamatsu, Japan, (4)Department of Contemporary Sociology, Chukyo University, Nagoya, Japan, (5)Child and Adolescent Psychiatry, Hamamatsu University School of Medicine, Hamamatsu, Japan
- 11:00 152.004 Sex and Diagnosis Effects on Microstructural White Matter Properties in Individuals with Autism Spectrum Conditions. A. N. Ruigrok<sup>1</sup>, M. V. Lombardo<sup>2</sup>, M. C. Lai<sup>6</sup>, F. dell'Acqua<sup>3</sup>, M. Catani<sup>3</sup>, J. Suckling<sup>4</sup>, B. Chakrabarti<sup>1,5</sup>, M. Craig<sup>6</sup>, D. G. Murphy<sup>7</sup>, U. K. MRC AIMS Consortium<sup>8</sup> and S. Baron-Cohen<sup>2</sup>, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)Section of Brain Maturation, Department of Psychological Medicine and Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (4)Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom, (5)Centre for Integrative Neuroscience and Neurodynamics, University of Reading, Reading, United Kingdom, (6)Institute of Psychiatry, King's College, London, United Kingdom, (7)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (8)Institute of Psychiatry, King's College; University of Cambridge; University of Oxford, London, United Kingdom
- 11:15 152.005 Atypical Regional Brain Volume in Women but Not Men with Autism Overlaps with Sexually Dimorphic Regions: Neuroanatomical Evidence for Females As a Sub-Group on the Autism Spectrum. M. C. Lai<sup>1</sup>, M. V. Lombardo<sup>1</sup>, J. Suckling<sup>2</sup>, A. N. Ruigrok<sup>1</sup>, B. Chakrabarti<sup>1,3</sup>, E. T. Bullmore<sup>2</sup>, M. R. C. AIMS Consortium<sup>4</sup> and S. Baron-Cohen<sup>1</sup>, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychiatry, Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom, (3)Centre for Integrative Neuroscience and Neurodynamics, University of Reading, Reading, United Kingdom, (4)University of Oxford, University of Cambridge, Institute of Psychiatry, London, United Kingdom
- 11:30 152.006 The Intrinsic Geometry of the Cerebral Cortex In Autism – the Relationship Between Cortical Folding and White Matter Wiring. C. Ecker<sup>1</sup>, E. Daly<sup>2</sup>, C. M. Murphy<sup>3</sup>, S. C. Williams<sup>4</sup>, M. MRC AIMS Consortium<sup>5</sup> and D. G. Murphy<sup>6</sup>, (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, London, United Kingdom, (2)Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (4)Institute of Psychiatry, London, United Kingdom, (5)Institute of Psychiatry, London; University of Oxford; University of Cambridge, United Kingdom, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College, London, United Kingdom
- 11:45 152.007 Longitudinal Cortical Development During Adolescence and Young Adulthood in Autism Spectrum Disorders: Increased Cortical Thinning but Comparable Surface Area. G. L. Wallace<sup>1</sup>, B. L. Robustelli<sup>1</sup>, N. A. Dankner<sup>1</sup>, L. Kenworthy<sup>2</sup>, J. Giedd<sup>3</sup> and A. Martin<sup>1</sup>, (1)Laboratory of Brain & Cognition, National Institute of Mental Health, Bethesda, MD, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Child Psychiatry Lab, National Institute of Mental Health, Bethesda, MD

12:00 152.008 The Presence of Specific Maternal IgG Antibodies Is Associated with Abnormal Brain Enlargement in ASD and in Nonhuman Primate Model of ASD. C. W. Nordahl<sup>1</sup>, M. Bauman<sup>1</sup>, D. Braunschweig<sup>1</sup>, A. M. Iosif<sup>2</sup>, P. Ashwood<sup>1</sup>, J. Van de Water<sup>1</sup> and D. G. Amaral<sup>1</sup>, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Public Health Sciences, University of California, Davis, CA

12:00 153.008 Functional Neuroanatomical Changes Induced by Mu-Based Neurofeedback Training in Children on the Autism Spectrum. M. C. Datko<sup>1</sup>, J. A. Pineda<sup>2</sup> and R. A. Müller<sup>3</sup>, (1)Cognitive Science, University of California San Diego, La Jolla, CA, (2)University of California, San Diego, CA, (3)Psychology, Brain Development Imaging Laboratory, San Diego State University, San Diego, CA

**Oral Sessions**

**153 - Electrophysiological Correlates of Autism Spectrum Disorder**

10:15 AM - 12:15 PM - Grand Ballroom West

- 10:15 153.001 Physiological and Behavioral Characterization of Sensory Dysfunction in Autism. T. W. Benevides<sup>1</sup> and R. Schaaf<sup>2</sup>, (1)Thomas Jefferson University, Philadelphia, PA, (2)Thomas Jefferson University, Philadelphia, PA
- 10:30 153.002 Sensory Assessments Reveal Phenotypic Heterogeneity in Autism. E. Francisco, J. Holden, O. Favorov and M. Tommerdahl<sup>1</sup>, University of North Carolina, Chapel Hill, NC
- 10:45 153.003 Gamma-Band Activity and Coherence in Response to Familiar and Unfamiliar Faces in Infants At Risk for Autism Spectrum Disorder. B. Keehn<sup>1</sup>, R. Luyster<sup>1</sup>, V. Vogel-Farley<sup>1</sup>, H. Tager-Flusberg<sup>2</sup> and C. A. Nelson<sup>1</sup>, (1)Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, MA, (2)Department of Psychology, Boston University, Boston, MA
- 11:00 153.004 Auditory Evoked Potentials: Candidate Endophenotypic Indices of ASD Susceptibility. O. V. Sysoeva<sup>1</sup>, A. Z. Snyder, J. N. Constantino and A. P. Anokhin, Washington University School of Medicine, Saint Louis, MO
- 11:15 153.005 Intact Interhemispheric Transmission in Children and Adolescents Diagnosed with An ASD. M. South<sup>1,2</sup>, M. J. Larson<sup>1,2</sup>, P. E. Clayson<sup>3</sup> and S. E. White<sup>4</sup>, (1)Neuroscience, Brigham Young University, Provo, UT, (2)Psychology, Brigham Young University, Provo, UT, (3)Psychology, UCLA, Los Angeles, CA, (4)Neuroscience, Brigham Young University, Provo, UT
- 11:30 153.006 Level of Autistic Traits Modulates Activity in Face and Action Perception Systems. J. McPartland<sup>1</sup>, M. Coffman<sup>1</sup>, S. Faja<sup>2</sup>, A. Kresse<sup>3</sup>, C. E. Mukerji<sup>1</sup>, A. Naples<sup>1</sup> and R. Bernier<sup>3</sup>, (1)Yale Child Study Center, New Haven, CT, (2)University of Washington, Seattle, WA, (3)University of Washington, Seattle, WA
- 11:45 153.007 Sex Differences in Social Information Processing in ASD. M. Coffman<sup>1</sup>, A. Naples, D. Perszyk, C. E. Mukerji and J. McPartland, Yale Child Study Center, New Haven, CT

**Oral Sessions**

**154 - Medical, Psychiatric and Behavioral Comorbidities in ASD**

10:15 AM - 12:15 PM - Osgoode Ballroom East

- 10:15 154.001 The Effect of Autism on Bone Metabolism in Peripubertal Boys. A. M. Neumeyer<sup>1</sup>, A. Gates<sup>2</sup>, C. Ferrone<sup>2</sup> and M. Misra<sup>3</sup>, (1)Lurie Center for Autism, Massachusetts General Hospital/ Harvard Medical School, Lexington, MA, (2)Lurie Center for Autism, Massachusetts General Hospital, Lexington, MA, (3)Pediatric Endocrine Unit, Massachusetts General Hospital/ Harvard Medical School, Boston, MA
- 10:30 154.002 Head Growth in Autism: A Population-based Cohort Study. P. Suren<sup>1</sup>, M. Hornig<sup>2</sup>, M. Bresnahan<sup>2</sup>, D. Hirtz<sup>3</sup>, K. Kveim Lie<sup>1</sup>, W. I. Lipkin<sup>2</sup>, P. Magnus<sup>1</sup>, T. Reichborn-Kjennerud<sup>1</sup>, S. Schjolberg<sup>1</sup>, E. Susser<sup>2</sup>, A. S. Oyen<sup>1</sup>, L. Li<sup>4</sup> and C. Stoltenberg<sup>1</sup>, (1)The Norwegian Institute of Public Health, Oslo, Norway, (2)The Mailman School of Public Health, Columbia University, New York, NY, (3)National Institute of Neurological Disorders and Stroke, Bethesda, MD, (4)Centre for Paediatric Epidemiology and Biostatistics, UCL Institute of Child Health, London, United Kingdom
- 10:45 154.003 Age of Diagnosis of Autism Spectrum Disorders in Children with Hearing Loss. J. Meizen-Derr<sup>1</sup>, S. Wiley, S. L. Bishop, P. Manning and D. Murray, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 11:00 154.004 Food Preferences in Autism Spectrum Disorders and Their Relationship to Sensory and Behavioral Symptoms. L. Bennetto<sup>1</sup>, C. J. Zampella<sup>1</sup>, E. S. Kuschner<sup>2</sup>, R. G. Bender<sup>1</sup> and S. L. Hyman<sup>3</sup>, (1)Clinical & Social Sciences in Psychology, University of Rochester, Rochester, NY, (2)Center for Autism Spectrum Disorders, Division of Neuropsychology, Children's National Medical Center, Rockville, MD, (3)Department of Neurodevelopmental and Behavioral Pediatrics, University of Rochester School of Medicine, Rochester, NY

- 11:15 154.005 Shared and Distinct Presentations of ADHD and ASD: An Examination of the Autism Spectrum Continuum. R. L. Grzadzinski<sup>1</sup>, R. Lange<sup>2</sup>, J. Rodman<sup>1</sup>, E. V. Roberts<sup>3</sup>, M. O'Neale<sup>4</sup>, E. Petkova<sup>5,6</sup>, C. E. Lord<sup>7</sup>, F. X. Castellanos<sup>1,5</sup> and A. Di Martino<sup>1</sup>, (1)NYU Child Study Center at the NYU Langone Medical Center, Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience, New York, NY, (2)NYU Child Study Center at the NYU Langone Medical Center, Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience, New York, NY, (3)NYU Child Study Center, New York, NY, (4)NYU Child Study Center at the NYU Langone Medical Center, Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience, NY, NY, (5)Nathan Kline Institute for Psychiatric Research, Orangeburg, NY, (6)Division of Biostatistics, NYU Child Study Center, New York, NY, (7)Institute for Brain Development, Weill Cornell Medical College, White Plains, NY
- 11:30 154.006 The Stability and Specificity of Psychopathology in Autism Spectrum Disorders. E. Simonoff<sup>1</sup>, A. Pickles<sup>2</sup>, G. Baird<sup>3</sup>, C. Jones<sup>4</sup> and T. Charman<sup>5</sup>, (1)London, United Kingdom, (2)Institute of Psychiatry, King's College London, London, United Kingdom, (3)Guy's Hospital, London, United Kingdom, (4)Department of Psychology, University of Essex, Colchester, United Kingdom, (5)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom
- 11:45 154.007 Dimensions of Oppositionality in Autism Spectrum Disorder. L. Roughan<sup>1</sup>, D. H. Skuse<sup>2</sup> and W. P. Mandy<sup>3</sup>, (1)Social Communication Disorders Clinic, DCAMH, Great Ormond Street Hospital, London, United Kingdom, (2)Institute of Child Health, London, United Kingdom, (3)University College London, London, United Kingdom
- 12:00 154.008 Prevalence of Co-Morbid Psychiatric Conditions In An Adult Population Assessed for Autism Spectrum Disorder. E. Wilson<sup>1</sup>, D. M. Robertson<sup>2</sup>, N. Gillan<sup>3</sup>, G. Roberts<sup>4</sup>, S. Coghill<sup>5</sup>, M. A. Mendez<sup>3</sup>, D. Spain<sup>6</sup>, C. Ohlsen<sup>7</sup>, N. Hammond<sup>7</sup>, D. G. Murphy<sup>8</sup> and C. M. Murphy<sup>8</sup>, (1)Institute of Psychiatry, King's College London, London, United Kingdom, (2)Behavioural and Developmental Clinical Academic Group, South London and Maudsley NHS Trust, London, United Kingdom, (3)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (4)Behavioural Genetics Clinic, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (5)King's College, London, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (7)South London and Maudsley NHS Foundation Trust, London, United Kingdom, (8)Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom

**Poster Sessions**

**155 - Clinical Phenotype: Measurement**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 1 155.001 DISCO: A Decade of Epidemiological Research. C. Gillberg<sup>1</sup> and T. Brugha<sup>2</sup>, (1)The Gillberg Neuropsychiatry Centre, Sahlgrenska Academy, Gothenburg University, London, Sweden, (2)Department of Health Sciences, University of Leicester, Leicester, United Kingdom
- 10:00 2 155.002 Autism Mental Status Examination: A Preliminary Report of An Italian Version. R. Canitano<sup>1</sup>, V. Scandurra<sup>2</sup>, R. Storino<sup>3</sup> and M. R. Scordo<sup>2</sup>, (1)Child Neuropsychiatry, University Hospital of Siena, Siena, Italy, (2)Child Neuropsychiatry, University of Florence, Florence, Italy, (3)University of Florence, Florence, Italy
- 11:00 ▶ 3 155.003 Challenges in Diagnosis of Autism Spectrum Disorder in Vietnam. H. S. Vu<sup>1,2</sup>, A. Whittaker<sup>2</sup>, S. Rodger<sup>3</sup> and M. Whittaker<sup>2</sup>, (1)Center for Creative Initiatives in Health and Population, Hanoi, Vietnam, (2)The School of Population Health, University of Queensland, Brisbane, Australia, (3)University of Queensland, Brisbane, Australia
- 9:00 4 155.004 Diagnostic Stability of Autism Spectrum Disorders and Predictors of Crossover in Toddlers Prospectively Identified in a Community-based Setting. J. Barbaro<sup>1</sup> and C. Dissanayake, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia
- 10:00 5 155.005 Identifying Autism Spectrum Disorders (ASD) in a Mixed Population of Adults with ASD or ADHD Worth the AQ and the Temperament and Character Inventory Personality Questionnaire. B. B. Sizoo<sup>1</sup>, R. J. van der Gaag<sup>2</sup> and W. van den Brink<sup>3</sup>, (1)Dimence, Deventer, Netherlands, (2)Reinier Postlaan 12, Karakter Child & Adolescent Psychiatry, Nijmegen, Netherlands, (3)Academic Psychiatric Centre AMC-UvA, Amsterdam Institute for Addiction Research (AIAR), Amsterdam, Netherlands
- 11:00 ▶ 6 155.006 Development of Thai Version of Autism Spectrum Screening Questionnaire (Thai-ASSQ). W. Kittitharaphan<sup>1</sup>, A. Muang, Samutprakarn, Thailand
- 9:00 7 155.007 Shortening the Behavioral Diagnosis of Autism Through Artificial Intelligence and Mobile Health Technologies. D. P. Wall<sup>1</sup>, Pathology/Center for Biomedical Informatics, Harvard Medical School, Boston, MA
- 10:00 8 155.008 Simons Simplex Collection: A Model of Quality Assessment in Multi-Site Phenotyping Research. E. Brooks<sup>1,2</sup>, J. E. Olson<sup>2,3</sup>, L. Green-Synder<sup>2,3</sup>, S. Risi<sup>2</sup>, J. Tjernagel<sup>1,2</sup>, L. C. White<sup>1,2</sup>, R. K. Rumsey<sup>4</sup>, A. Gallego<sup>1</sup> and M. Greenup<sup>1</sup>, (1)Simons Foundation, New York, NY, (2)University of Michigan Autism & Communication Disorders Center, Ann Arbor, MI, (3)Children's Hospital Boston/Harvard Medical Center, Boston, MA, (4)University of Minnesota, Minneapolis, MN



- 11:00 9 155.009 The Implications of DSM V: Changes in Diagnostic Outcomes in An Adult Clinical Sample Re-Diagnosed According to the Proposed DSM V. G. Roberts<sup>1</sup>, N. Gillan<sup>2</sup>, K. Johnston<sup>3</sup>, S. Maltezos<sup>4</sup>, C. M. Murphy<sup>5</sup>, D. G. Murphy<sup>2</sup>, D. M. Robertson<sup>6</sup>, D. Spain<sup>2</sup>, E. Wilson<sup>7</sup> and F. Happe<sup>8</sup>, (1)Behavioural Genetics Clinic, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, Kings College London, Institute of Psychiatry, London, United Kingdom, (4)The Maudsley Hospital, London, United Kingdom, (5)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (6)South London and Maudsley NHS Trust, London, United Kingdom, (7)Institute of Psychiatry, King's College, London, United Kingdom, (8)Social, Genetic and Developmental Psychiatry (SGDP) Centre, Institute of Psychiatry, London, United Kingdom
- 9:00 10 155.010 The Role of Comprehensive Evaluation in the Differential Diagnosis of Autism in a Clinic Setting. C. M. Hall<sup>1</sup> and J. Hamel<sup>2</sup>, (1)Pediatric Neurodevelopmental Clinic, The Marcus Autism Center, Atlanta, GA, (2)Pediatric Neurodevelopmental Clinic, Marcus Autism Center, Atlanta, GA
- 10:00 11 155.011 Sensitivity of Current and Proposed Diagnostic Criteria: Are We on the Path to Exclusion?. K. S. D'Eramo<sup>1</sup>, T. M. Newman<sup>1</sup>, A. Naples<sup>2</sup>, C. M. Cotter<sup>1</sup>, J. W. Loomis<sup>1</sup>, M. J. Palmieri<sup>1</sup> and M. D. Powers<sup>1</sup>, (1)Center for Children with Special Needs, Glastonbury, CT, (2)Yale Child Study Center, New Haven, CT
- 11:00 12 155.012 Using the DISCO with Adults. E. Billstedt<sup>1</sup> and L. M. Ghali<sup>2</sup>, (1)Gillberg Neuropsychiatry Centre, Gothenburg, Sweden, (2)Department of Pediatrics, University of Calgary, Calgary, AB, Canada
- 9:00 13 155.013 Estimating Cognitive Functioning in ASD: A Longitudinal Study From Developmental Profile to IQ Level. L. Reale<sup>1</sup>, V. Mannino<sup>2</sup>, M. Guarnera<sup>1</sup> and L. Mazzone<sup>3</sup>, (1)Division of Child and Adolescents NeuroPsychiatry, Department of Pediatrics, University of Catania, Catania, Italy, Catania, Italy, (2)UONPIA - IRCCS Foundation Ca' Granda, Ospedale Maggiore Policlinico, Milan, Italy, Catania, Italy, (3)Child Neuropsychiatry Unit, Department of Neuroscience, Bambino Gesù Children's Hospital, Rome, Italy

**Poster Sessions**  
**156 - Clinical Phenotype: Medical & Biological Profiles**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 14 156.014 Body Size and Neurological Abnormalities in Jamaican Children with Autism. R. Melbourne-Chambers<sup>1</sup>, J. Tapper<sup>2</sup>, M. H. Rahbar<sup>3</sup> and M. Samms-Vaughan<sup>1</sup>, (1)Department of Child Health, The University of the West Indies, Kingston 7, Jamaica, (2)Bustamante Hospital for Children, Kingston, Jamaica, (3)Biostatistics, Epidemiology, Research Design (BERD) Core, Center for Clinical and Translational Sciences (CTS), The University of Texas Health Science Center at Houston, Houston, TX

**Poster Sessions**

**157 - Comorbid Medical Conditions**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 15 157.015 Feeding Difficulties Among Children with Autism Spectrum Disorders of Preschool Age: A Controlled Study. A. Kotsopoulos<sup>1</sup>, A. Troupou<sup>2</sup>, M. Gyftogianni<sup>3</sup>, A. Gasteratos<sup>4</sup> and A. Gyftogianni<sup>5</sup>, (1)Speech Therapy, Technological Institute of Patras, Patras, Greece, (2)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, (3)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, (4)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, (5)Day Centre for Children with Developmental Disorders, Messolonghi, Greece
- 10:00 16 157.016 Feeding Problems and Nutrient Intake in Children with Autism Spectrum Disorders: A Meta-Analysis and Comprehensive Review of the Literature. W. G. Sharp<sup>1,2</sup>, D. L. Jaquess<sup>2,3</sup>, R. Berry<sup>4</sup>, W. Jones<sup>5</sup>, C. McCracken<sup>6</sup>, C. A. Saulnier<sup>7</sup> and A. Klin<sup>5</sup>, (1)Pediatric Feeding Disorders Program, Marcus Autism Center, Atlanta, GA, (2)Pediatrics, Emory University School of Medicine, Atlanta, GA, (3)Marcus Autism Center, Atlanta, GA, (4)Pediatric Feeding Disorders Program, Marcus Autism Center, Atlanta, GA, (5)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (6)Biostatistics, Emory University School of Medicine, Atlanta, GA, (7)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 11:00 17 157.017 Feeding Issues in Children with Autism and Abnormal Sensory Modulation. D. U. Menon<sup>1</sup>, R. V. Whitney<sup>2</sup> and J. Smith<sup>3</sup>, (1)Kennedy Krieger Institute - Center for Autism & Related Disorders., Baltimore, MD, (2)Center for Autism & Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (3)Occupational Therapy, San Jose State University, San Jose, CA
- 9:00 18 157.018 Food Selectivity and Autism: A Retrospective Chart Review Regarding the Anthropometric Status, Nutritional Intake and Dietary Variety Among Children with and without ASD. R. Berry<sup>1</sup>, W. G. Sharp<sup>2,3</sup>, D. L. Jaquess<sup>3,4</sup> and S. Hartwig<sup>2</sup>, (1)Pediatric Feeding Disorders Program, Marcus Autism Center, Atlanta, GA, (2)Pediatric Feeding Disorders Program, Marcus Autism Center, Atlanta, GA, (3)Pediatrics, Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Atlanta, GA
- 10:00 19 157.019 Assessment of Feeding Difficulties Among Children with Autism Spectrum Disorders. D. L. Jaquess<sup>1,2</sup>, W. G. Sharp<sup>1,3</sup> and C. T. Lukens<sup>4</sup>, (1)Pediatrics, Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Atlanta, GA, (3)Pediatric Feeding Disorders Program, Marcus Autism Center, Atlanta, GA, (4)Children's Hospital of Philadelphia, Philadelphia, PA
- 11:00 20 157.020 Assessment of Omega-3 Fatty Acids Status in Omani Autistic Children. M. I. Waly<sup>1</sup>, Y. M. Al-Farsi<sup>1</sup>, M. Al-Sharbaty<sup>1</sup>, M. M. Al-Khaduri<sup>1</sup>, A. Ali<sup>1</sup>, M. M. Essa<sup>1</sup>, A. Ouhiti<sup>1</sup>, O. A. Al-Farsi<sup>1</sup>, M. Al-Shafae<sup>1</sup> and R. Deth<sup>2</sup>, (1)Sultan Qaboos University, Muscat, Oman, (2)Northeastern University, Boston, MA

- 9:00 21 157.021 Serum Levels of Anterior Pituitary Hormones in Children with Autism. K. Iwata<sup>1</sup>, H. Matsuzaki<sup>1</sup> and N. Mori<sup>2</sup>, (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Psychiatry and Neurology, Hamamatsu University School of Medicine, Hamamatsu, Japan
- 10:00 22 157.022 Altered Antioxidant Enzymes in the Plasma of Autistic Omani Children. M. M. Essa<sup>1,2</sup>, G. J. Guillemin<sup>3</sup>, F. L. Hakkim<sup>4</sup>, M. I. Waly<sup>5</sup>, M. Al-Sharbaty<sup>5</sup>, Y. M. Al-Farsi<sup>5</sup> and A. Ali<sup>5</sup>, (1)Sultan Qaboos University, Muscat, Oman, (2)Neuropharmacology Group, Dept of Pharmacology, University of New South Wales, Sydney, NSW, Australia, (3)Pharmacology, UNSW, Sydney, Australia, (4)Nutrition, Sultan Qaboos University, Muscat, Oman, (5)Sultan Qaboos University, Muscat, Oman
- 11:00 23 157.023 VLDL-Specific Hypolipidemia Pattern in Human Subjects with Autism and Autistic Rodent Models. H. Matsuzaki<sup>1</sup>, K. Iwata<sup>1</sup> and N. Mori<sup>2</sup>, (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Psychiatry and Neurology, Hamamatsu University School of Medicine, Hamamatsu, Japan
- 9:00 24 157.024 A Comparison Study of Inorganic and Organic Compounds in Children with Autism and Controls. S. Faber<sup>1</sup>, G. M. Zinn<sup>2</sup>, T. Fahrenholz<sup>2</sup>, A. Boggess<sup>2</sup>, J. C. Kern<sup>3</sup> and H. M. S. Kingston<sup>2</sup>, (1)Department of Medicine, The Children's Institute, Pittsburgh, PA, (2)Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA, (3)Department of Mathematics and Computer Science, Duquesne University, Pittsburgh, PA
- 10:00 25 157.025 Atypical Pupillary Light Reflex and Heart Rate Variability in Children with Autism. C. L. Daluwatte<sup>1,2</sup>, J. H. Miles<sup>3</sup>, S. E. Christ<sup>4</sup>, D. Q. Beversdorf<sup>5</sup>, T. N. Takahashi<sup>6</sup> and G. Yao<sup>2</sup>, (1)University of Missouri, Columbia, MO, (2)Department of Biological Engineering, University of Missouri, Columbia, MO, (3)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (4)Psychological Sciences, University of Missouri, Columbia, MO, (5)Radiology, Neurology, Psychology, and Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (6)University of Missouri – Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO
- 11:00 26 157.026 Incidence of Gastrointestinal Distress and Effects of Diet in 1- to 6-Month-Old Infants at High Risk for Autism Spectrum Disorders. K. R. Dobkins<sup>1</sup>, A. Penn<sup>1</sup>, S. Taylor<sup>2</sup>, L. J. Carver<sup>3</sup>, C. Herbert<sup>1</sup> and G. W. Schmid-Schonbein<sup>1</sup>, (1)University of California, San Diego, La Jolla, CA, (2)Rady Children's Hospital San Diego, San Diego, CA, (3)University of California, San Diego, La Jolla, CA
- 9:00 27 157.027 Gene Expression Profiles of Inflamed Bowel Biopsy Tissue in ASD Children Are Consistent with Inflammatory Bowel Disease. S. J. Walker<sup>1</sup>, J. Fortunato<sup>2</sup> and A. Krigsman<sup>3</sup>, (1)Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC, (2)Wake Forest University Health Sciences, Winston Salem, NC, (3)Pediatric Gastroenterology Resources of New York, Far Rockaway, NY
- 10:00 28 157.028 Increased Sympathetic Nervous System Tone in Autism Spectrum Disorders with Comorbid Gastrointestinal Symptomatology. B. J. Ferguson<sup>1</sup>, J. R. Day<sup>1</sup>, B. R. Wexler<sup>1</sup>, R. E. Lavoy<sup>1</sup>, R. M. Zamzow<sup>1</sup>, P. S. Foster<sup>2</sup> and D. Q. Beversdorf<sup>3</sup>, (1)University of Missouri, Columbia, MO, (2)Middle Tennessee State University, Murfreesboro, TN, (3)Radiology, Neurology, Psychology, and Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 11:00 29 157.029 Molecular Characterization of Gastrointestinal Microbiota in Children with Autism (both with and without gastrointestinal dysfunction) and Their Neurotypical Siblings. S. V. Gondalia<sup>1</sup>, D. W. Austin and E. A. Palombo, Faculty of Life and Social Sciences, Swinburne University of Technology, Hawthorn, Australia
- 9:00 30 157.030 Gastrointestinal Problems, and Abdominal Pain in Particular, Are Associated with Affective Problems but Not Externalizing Behaviors in Children with High-Functioning Autism. D. R. Schreiber<sup>1</sup>, C. A. Mazefsky<sup>2</sup> and N. J. Minshew<sup>3</sup>, (1)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (2)3811 O'Hara, University of Pittsburgh, Pittsburgh, PA, (3)Psychiatry & Neurology, University of Pittsburgh, Pittsburgh, PA
- 10:00 31 157.031 Sleep Issues In ASD: Behavioral Implications for Adolescents. D. M. Antovich<sup>1</sup>, J. Munson<sup>2</sup>, T. St. John<sup>3</sup>, S. R. Dager<sup>4</sup> and A. M. Estes<sup>5</sup>, (1)Speech and Hearing Sciences, Autism Center, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Speech and Hearing Sciences, University of Washington Autism Center, Seattle, WA, (4)University of Washington, Seattle, WA, (5)Speech and Hearing Sciences, University of Washington, Seattle, WA
- 11:00 32 157.032 The Validity of Actigraphy As a Diagnostic Tool for Sleep Disturbances in Children with Autism Spectrum Disorders. H. Holbrook<sup>1</sup>, K. Mask<sup>1</sup>, E. Hanson<sup>1,2</sup>, D. S. Manoach<sup>2,3</sup> and R. Stickgold<sup>2,4</sup>, (1)Children's Hospital Boston, Boston, MA, (2)Harvard Medical School, Boston, MA, (3)Massachusetts General Hospital, Charlestown, MA, (4)Beth Israel Deaconess Medical Center, Boston, MA
- 9:00 33 157.033 Sleep Behaviors in Infants At High and Low Risk for Developing Autism Spectrum Disorders. S. Kauper<sup>1</sup>, M. C. Souders<sup>2</sup>, S. Paterson<sup>3</sup> and I. Network<sup>4</sup>, (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania/The Children's Hospital of Philadelphia, Swarthmore, PA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)UW, UNC, WASTL, CHOP, Seattle, WA
- 10:00 34 157.034 Sleep Quality in Children and Adolescents with Autism Spectrum Disorder with and without Anxiety Compared to Typically Developing Children. M. C. Souders<sup>1</sup>, L. Berry<sup>2</sup>, I. Giserman<sup>2</sup>, C. M. Puleo<sup>2</sup>, W. Eriksen<sup>3</sup>, A. Bennett<sup>2</sup> and J. D. Herrington<sup>2</sup>, (1)University of Pennsylvania/The Children's Hospital of Philadelphia, Swarthmore, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Nursing, University of Pennsylvania, Philadelphia, PA
- 11:00 35 157.035 The Relation Between Poor Sleep and Executive Functioning in Children with Autism Spectrum Disorders. O. Hsin<sup>1</sup>, M. C. Souders, R. T. Schultz and S. F. Epstein, Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

- 9:00 36 157.036 Correlations Between Sensory Processing Symptoms and Sleep Disturbances Among Children with Autism Spectrum Disorders. M. Mosner<sup>1</sup>, L. E. Bradstreet<sup>2</sup>, L. Guy<sup>1</sup>, R. Schaa<sup>3</sup>, R. T. Schultz<sup>4</sup> and M. C. Souders<sup>5</sup>, (1)Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)Thomas Jefferson University, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 37 157.037 Distinct Facial Phenotypes in Children with Autism Spectrum Disorders and Their Unaffected Siblings. J. R. Austin<sup>1,2</sup>, I. D. George<sup>1,2</sup>, K. K. Cole<sup>2</sup>, T. N. Takahashi<sup>1</sup>, Y. Duan<sup>1,3</sup>, J. H. Miles<sup>1</sup> and K. Aldridge<sup>1,2</sup>, (1)University of Missouri – Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, (2)Pathology & Anatomical Sciences, University of Missouri School of Medicine, Columbia, MO, (3)Computer Science Department, University of Missouri, Columbia, MO
- 11:00 38 157.038 2D Facial Pattern Analysis for Autism. T. Obafemi-Ajayi<sup>1</sup>, B. Morago<sup>1</sup>, J. Wilson<sup>1</sup>, T. N. Takahashi<sup>2</sup>, K. Aldridge<sup>2,3</sup>, J. H. Miles<sup>4</sup> and Y. Duan<sup>1,2</sup>, (1)Computer Science Department, University of Missouri, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, (3)Pathology & Anatomical Sciences, University of Missouri, Columbia, MO, (4)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 9:00 39 157.039 A Prospective Case Series of Premature Infants Who Developed Autism Spectrum Disorder. C. Roncadin<sup>1</sup>, F. Nawaz<sup>2</sup>, J. Brian<sup>3</sup>, S. E. Bryson<sup>4</sup>, A. Niccols<sup>5</sup>, W. Roberts<sup>3</sup>, I. M. Smith<sup>4</sup>, P. Szatmari<sup>6</sup> and L. Zwaigenbaum<sup>7</sup>, (1)Peel Children's Centre, Mississauga, ON, Canada, (2)University of Toronto Mississauga, Mississauga, ON, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (5)Infant-Parent Program, Hamilton Health Sciences Centre, Hamilton, ON, Canada, (6)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (7)University of Alberta, Edmonton, AB, Canada
- 10:00 40 157.040 Refined Subtyping of Autistic Patients Based on Pathogenetic Components. R. Sacco<sup>1,2</sup>, S. Rossi<sup>1</sup>, B. Manzi<sup>1</sup>, P. Curatolo<sup>3</sup>, C. Bravaccio<sup>3</sup>, C. Lenti<sup>5</sup> and A. M. Persico<sup>1,2</sup>, (1)Child Neuropsychiatry Unit, Univ. Campus Bio-Medico, Rome, Italy, (2)IRCCS "Fondazione S. Lucia", Rome, Italy, (3)Child Neuropsychiatry, Univ. of Rome 'Tor Vergata', Rome, Italy, (4)Dept. of Pediatrics, Univ. 'Federico II', Naples, Italy, (5)Child Neuropsychiatry, Univ. of Milan, Milan, Italy
- 11:00 41 157.041 Reported Epilepsy and Abnormal EEG Activity in Individuals with ASD with and without Regression: A Meta-Analysis. J. Campbell, B. Barger, J. Donald and A. Dubin, University of Georgia, Athens, GA
- 9:00 42 157.042 Epilepsy In Autism: Long Term Follow Up. N. Granana<sup>1</sup>, A. Suburo<sup>2</sup> and N. Fejerman<sup>3</sup>, (1)Pediatrics, Hospital C Durand, Buenos Aires, Argentina, (2)Hospital Universitario Austral, Buenos Aires, Argentina, (3)Pediatric Neurology, Hospital J Garrahan, Buenos Aires, Argentina
- 10:00 43 157.043 Depakote Treatment for Concurrent Autism and Abnormal EEG. M. Chhab<sup>1</sup>, C. Lepage<sup>2</sup> and R. Low<sup>3</sup>, (1)Sutter Neuroscience Institute, Sacramento; UC Davis Medical Center, Sacramento, CA, (2)Sutter Neuroscience Medical Group, Sacramento, CA, (3)Sutter Neuroscience Medical Group, Sacramento, CA
- 11:00 44 157.044 Left Handed Phenotype in Autism. C. Lepage, Sutter Neuroscience Medical Group, Sacramento, CA
- 9:00 45 157.045 Asthma and Allergies in Children with Autism Spectrum Disorders. K. Lyall<sup>1</sup>, J. Van de Water<sup>2,3</sup>, P. Ashwood<sup>3,4</sup> and I. Hertz-Picciotto<sup>2,3</sup>, (1)Harvard School of Public Health, Berkeley, CA, (2)University of California, Davis, CA, (3)University of California, Davis, MIND Institute, Sacramento, CA, (4)Department of Medical Microbiology and Immunology Univ. California, Davis, CA
- 10:00 46 157.046 Phenotypic Similarity Between XYY Syndrome and Autism Spectrum Disorder. B. M. Winder<sup>1</sup>, L. Rescorla<sup>1</sup> and J. Ross<sup>2</sup>, (1)Department of Psychology, Bryn Mawr College, Bryn Mawr, PA, (2)Department of Pediatrics, Thomas Jefferson University, Philadelphia, PA
- 11:00 47 157.047 Autistic Symptomatology in Prader-Willi Syndrome. A. Dimitropoulos<sup>1</sup> and C. Klaiman<sup>2</sup>, (1)Case Western Reserve University, Cleveland, OH, (2)Marcus Autism Center, Atlanta, GA
- 9:00 48 157.048 Autistic Traits in Women with Polycystic Ovary Syndrome. S. Herguner<sup>1</sup>, H. Harmanci<sup>1</sup>, A. Herguner<sup>1</sup> and H. Toy<sup>2</sup>, (1)Department of Child and Adolescent Psychiatry, Meram Faculty of Medicine, Konya, Turkey, (2)Department of Obstetrics and Gynecology, Meram Faculty of Medicine, Konya, Turkey
- 10:00 49 157.049 Parent-Reported Autism Spectrum Symptomatology in Children with Williams Syndrome. F. van der Fluitt<sup>1</sup>, B. P. Klein-Tasman<sup>2</sup> and E. C. Bennaton<sup>2</sup>, (1)PO Box 413, University of Wisconsin, Milwaukee, Milwaukee, WI, (2)Psychology, University of Wisconsin, Milwaukee, Milwaukee, WI
- 11:00 50 157.050 Simons Variation in Individuals Project: Characterizing the Phenotype of 16p11.2 Duplication Syndrome. L. Green Snyder<sup>1</sup>, S. M. Kanne<sup>2</sup>, R. Bernier<sup>3</sup>, J. A. Burko<sup>1</sup>, B. M. Cerban<sup>1</sup>, W. Chung<sup>4</sup>, R. P. Goin-Kochel<sup>2</sup>, A. Laakman<sup>2</sup>, A. Lian Cavanagh<sup>1</sup>, R. McNally Keehn<sup>1,5</sup>, F. K. Miller<sup>6</sup>, J. E. Olson<sup>1</sup>, A. V. Snow<sup>1,5</sup>, J. E. Spiro<sup>7</sup>, A. D. Stevens<sup>3</sup>, J. Tjernagel<sup>7</sup>, N. Visyak<sup>1</sup>, J. R. Wenegrat<sup>3</sup> and E. Hanson<sup>1,5</sup>, (1)Children's Hospital Boston, Boston, MA, (2)Baylor College of Medicine, Houston, TX, (3)University of Washington, Seattle, WA, (4)Columbia University, New York, NY, (5)Harvard Medical School, Boston, MA, (6)University of Michigan, Ann Arbor, MI, (7)Simons Foundation, New York, NY
- 9:00 51 157.051 Osteoporosis and Ambulation in Girls with Rett Syndrome. K. Smith<sup>1</sup>, L. Yin<sup>1</sup>, A. Pitts<sup>2</sup> and L. H. Wills<sup>2</sup>, (1)Pediatrics, University of Southern California, Keck School of Medicine, Los Angeles, CA, (2)University Center for Excellence in Developmental Disabilities, Children's Hospital, Los Angeles, CA



- 10:00 52 157.052 Audiometric Profiles of Children with Autism Spectrum Disorders. C. Demopoulos<sup>1,2</sup>, C. Keller<sup>1</sup>, G. Schroeder<sup>3</sup>, K. DePlonty<sup>1</sup>, B. E. Kopal<sup>1</sup>, K. Cooper<sup>1</sup>, N. Bangera<sup>1</sup> and J. D. Lewine<sup>1</sup>, (1)M.I.N.D. Research Network, Albuquerque, NM, (2)Department of Psychology, Illinois Institute of Technology, Chicago, IL, (3)Lutheran General Hospital, Park Ridge, IL
- 11:00 53 157.053 Aetiologies and Outcomes in Children with Comorbid Autism Spectrum Disorder and Severe-Profound Hearing Impairment. M. Charlton<sup>1</sup>, Royal Children's Hospital and Taralye Oral Language Centre for Deaf Children, Melbourne, Victoria, Australia
- 9:00 54 157.054 Clinical Phenotyping in Postmortem Brain Tissue Research- Progress and Challenges. C. K. Hare<sup>1</sup> and J. Pickett<sup>2</sup>, (1)Autism Speaks, Pittsburgh, PA, (2)Autism Tissue Program, Autism Speaks, San Diego, CA
- 10:00 55 157.055 Talk to the Hand: Finger and Hand Palm Prints in Adolescents with ASD As Compared to the General Population. E. I. de Bruin<sup>1</sup>, A. Louwse<sup>2</sup> and A. C. Huizink<sup>3</sup>, (1)Dept of Child Development and Education, University of Amsterdam, Amsterdam, Netherlands, (2)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC – Sophia's Children's Hospital, Rotterdam, Netherlands, (3)Department of Developmental Psychology, VU University Amsterdam, Amsterdam, Netherlands
- 11:00 56 157.056 Growth Characteristics of Jamaican Children with Autism. R. Melbourne-Chambers<sup>1</sup>, J. Tapper<sup>2</sup>, M. H. Rahbar<sup>3</sup> and M. Samms-Vaughan<sup>1</sup>, (1)Department of Child Health, The University of the West Indies, Kingston 7, Jamaica, (2)Bustamante Hospital for Children, Kingston, Jamaica, (3)Biostatistics, Epidemiology, Research Design (BERD) Core, Center for Clinical and Translational Sciences (CCTS), The University of Texas Health Science Center at Houston, Houston, TX
- 9:00 57 157.057 Poor Movement Skill in the Broader Autism Phenotype: Identification and Stability Over Time. H. C. Leonard<sup>1</sup> and E. L. Hill, Psychology, Goldsmiths, University of London, London, United Kingdom
- 10:00 58 157.058 Pilot Study for Subgroup Classification for Autism Spectrum Disorder Based on Dysmorphology and Physical Measurements in Chinese Children. P. T. Y. Wong and V. C. N. Wong<sup>1</sup>, Department of Paediatrics and Adolescent Medicine, The University of Hong Kong, China
- 10:00 60 158.060 The Importance of the Reporter: Parents' State and Trait Anxiety. C. M. Conner<sup>1</sup>, B. B. Maddox and S. W. White, Virginia Polytechnic Institute and State University, Blacksburg, VA
- 11:00 61 158.061 The Relationship Between Restricted Interests and Anxiety Disorder Symptoms in Children with Autism Spectrum Disorders (ASD). C. E. Lin<sup>1</sup> and J. J. Wood<sup>2</sup>, (1)Education and Psychiatry, UC Santa Barbara, Los Angeles, CA, (2)University of California, Los Angeles, CA
- 9:00 62 158.062 Intolerance of Uncertainty and Anxiety in Adolescents with Autism Spectrum Disorder. J. H. Filliter<sup>1</sup>, K. M. Rancourt, M. E. Kerr and S. A. Johnson, Department of Psychology, Dalhousie University, Halifax, NS, Canada
- 10:00 63 158.063 Exploring the Relationship Between Anxiety and Insistence on Sameness in Autism Spectrum Disorders. K. Gotham<sup>1</sup>, V. Hus<sup>2</sup>, S. L. Bishop<sup>3</sup>, M. Huerta<sup>4</sup>, A. Buja<sup>5</sup> and C. E. Lord<sup>4</sup>, (1)Psychology, University of Michigan, Ann Arbor, MI, (2)University of Michigan, Ann Arbor, MI, (3)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)Weill Cornell Medical College, White Plains, NY, (5)Statistics, The Wharton School University of Pennsylvania, Philadelphia, PA
- 11:00 64 158.064 Predicting Social Outcomes for Children and Adolescents with Autism Spectrum Disorder: Is Anxiety Helpful?. K. H. Johnston<sup>1</sup> and G. Iarocci, Psychology, Simon Fraser University, Burnaby, BC, Canada
- 9:00 65 158.065 Investigating the Autonomic Nervous System Response to Anxiety in Children with Autism Spectrum Disorders. A. Kushki<sup>1</sup>, M. Pla Mobarak, E. Drumm, N. Tanel, T. Chau and E. Anagnostou, Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada
- 10:00 66 158.066 The Relationship Between Heart Rate and Anxiety in Autism Spectrum Disorders. M. J. Hollocks<sup>1</sup>, L. Grayson, P. Howlin and E. Simonoff, Institute of Psychiatry, King's College London, London, United Kingdom
- 11:00 67 158.067 Evaluating a Parent-Rated Measure of Anxiety Symptoms in Children with Autism Spectrum Disorders. V. Hallett<sup>1</sup> and L. Scahill<sup>2</sup>, (1)Child Study Center, Yale University, New Haven, CT, (2)School of Medicine, Yale University, New Haven, CT
- 9:00 68 158.068 Anxiety in Children with Autism Spectrum Disorders Is Associated with Affective Symptoms in Their Mothers. M. Uljarevic<sup>1</sup>, J. Lidstone<sup>2</sup>, S. R. Leekam<sup>1</sup>, H. Kanaris<sup>3</sup>, A. M. McKigney<sup>4</sup>, J. Mullis<sup>5</sup>, R. Paradise<sup>6</sup> and M. Nešić<sup>7</sup>, (1)School of Psychology, Cardiff University, Cardiff, United Kingdom, (2)Psychology, Cardiff University, Cardiff, Wales, (3)Speech and Language Therapy Dept, St. Cadocs Hospital, Newport, United Kingdom, (4)Child and Adolescent Unit, St Cadoc's Hospital, Newport, United Kingdom, (5)Speech and Language Therapy Department, Cardiff & Vale University Health Board, Cardiff, United Kingdom, (6)St David's Hospital, Cardiff, United Kingdom, (7)Department of Physiology, Faculty of Medicine, University of Niš, Niš, Serbia

**Poster Sessions**

**158 - Comorbid Psychiatric and Behavioral Conditions**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 59 158.059 Multimodal Anxiety and Social Skills Intervention for Adolescents with Autism Spectrum Disorders (ASD): Feasibility and Preliminary Efficacy. S. W. White<sup>1</sup>, T. Ollendick<sup>2</sup> and L. Scahill<sup>3</sup>, (1)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA, (3)School of Medicine, Yale University, New Haven, CT

- 10:00 69 158.069 Differential Perceptions of Clinical Anxiety Among Clinicians and Parents in Children with Autism Spectrum Disorder. R. A. Vasa<sup>1</sup>, L. Kalb<sup>2</sup>, B. H. Freedman<sup>3</sup>, A. Keefer<sup>4</sup>, S. M. Kanne<sup>5</sup> and M. O. Mazurek<sup>6</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)University of Delaware, Newark, DE, (4)Kennedy Krieger Institute, Baltimore, MD, (5)Department of Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX, (6)Health Psychology, University of Missouri, Columbia, MO
- 11:00 70 158.070 Factors Associated with Anxiety In Children with ASD. F. J. van Steensel<sup>1</sup> and S. M. Bogels<sup>2</sup>, (1)Child Development and Education, University of Amsterdam, Amsterdam, Netherlands, (2)Dept. of Child Development and Education, University of Amsterdam, Amsterdam, Netherlands
- 9:00 71 158.071 Assessment of Anxiety in Children and Adolescents with Autism Spectrum Disorders. S. N. Grondhuis<sup>1</sup> and M. Gillman<sup>2</sup>, (1)The Nisonger Center UCEDD, The Ohio State University, Columbus, OH, (2)The Nisonger Center UCEDD, The Ohio State University, Columbus, OH
- 10:00 72 158.072 Factors Implicated in the Prevalence, Phenomenology and Impact of Anxiety Difficulties in Children with Autism Spectrum Disorders and Their Families. I. Magiati<sup>1</sup>, A. Y. Ong<sup>1</sup>, X. Y. Lim<sup>1</sup>, F. Patricia<sup>1</sup>, M. Sung<sup>2</sup>, D. S. Fung<sup>3</sup> and K. Poon<sup>4</sup>, (1)Psychology, National University of Singapore, Singapore, (2)Autism Clinic, Child Guidance Clinic, Institute of Mental Health, Singapore, (3)Child Guidance Clinic, Institute of Mental Health, Singapore, (4)Early Childhood and Special Needs Education, National Institute of Education, Singapore
- 11:00 73 158.073 Mother's Perceptions of Anxiety in Autism Spectrum Disorders. J. Palilla<sup>1</sup> and M. South, Brigham Young University, Provo, UT
- 9:00 74 158.074 Formal Thought Disorder in Children with ASD: Prevalence, Relations with Communication Impairment and Prediction of (pre)Psychotic Symptoms During Adolescence. M. L. Eussen<sup>1,2</sup>, E. I. de Bruin<sup>3</sup>, P. de Nijs<sup>2</sup>, F. Verheij<sup>2</sup>, F. C. Verhulst<sup>2</sup> and K. Greaves-Lord<sup>2,4</sup>, (1)Yulius, Dordrecht, Netherlands, (2)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC – Sophia's Children's Hospital, Rotterdam, Netherlands, (3)Dept of Child Development and Education, University of Amsterdam, Amsterdam, Netherlands, (4)Academie, Yulius, Rotterdam, Netherlands
- 10:00 75 158.075 Schizophrenia Spectrum Traits and Mental Health in Children with ASD. K. D. Gadow<sup>1</sup>, State University of New York, Stony Brook, NY
- 11:00 76 158.076 Suicidality and Self-Injury in High-Functioning Adolescents with Autism Spectrum Disorder. B. B. Maddox<sup>1</sup> and S. W. White, Virginia Polytechnic Institute and State University, Blacksburg, VA
- 9:00 77 158.077 A Review of Cases Presenting with Symptoms of Autism Spectrum Disorder At An Outpatient Mental Health Program. J. Shuster<sup>1,2</sup> and J. A. Eichstedt<sup>3</sup>, (1)York University, Toronto, ON, Canada, (2)Child and Adolescent Mental Health Care Program, London Health Sciences Centre, London, ON, Canada, (3)Child & Adolescent Mental Health Care Program, London Health Sciences Centre, London, ON, Canada
- 10:00 78 158.078 Drug Refractory Irritability in Persons with Autism Spectrum Disorders. B. Adler<sup>1</sup>, L. Wink, R. Shaffer, N. Minshawi and C. Erickson, Indiana University School of Medicine, Indianapolis, IN
- 11:00 79 158.079 Response Time Intra-Subject Variability: Commonalities Between Children with Autism Spectrum Disorder and Children with Children with ADHD. N. Adamo<sup>1</sup>, S. B. Lebovitz<sup>1</sup>, S. Adelsberg<sup>1</sup>, E. Petkova<sup>2,3</sup>, F. X. Castellanos<sup>1,3</sup> and A. Di Martino<sup>1</sup>, (1)NYU Child Study Center at the NYU Langone Medical Center, Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience, New York, NY, (2)Division of Biostatistics, NYU Child Study Center, New York, NY, (3)Nathan Kline Institute for Psychiatric Research, Orangeburg, NY
- 9:00 80 158.080 Prevalence and Risk Factors for Attention-Deficit/Hyperactivity Disorder Among Children with Autism Spectrum Disorders. A. Keefer<sup>1</sup>, L. Kalb<sup>1</sup> and R. A. Vasa<sup>2,3</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Johns Hopkins School of Medicine, Baltimore
- 10:00 81 158.081 Neural Correlates of Face and Eye Gaze Processing Differentiate Children with Autism Spectrum Disorder (ASD) and/or Attention Deficit Hyperactivity Disorder (ADHD). C. Tye<sup>1</sup>, E. Mercure<sup>2</sup>, K. L. Ashwood<sup>3</sup>, B. Azadi<sup>3</sup>, P. Asherson<sup>1</sup>, M. H. Johnson<sup>4</sup>, P. F. Bolton<sup>3</sup> and G. McLoughlin<sup>1</sup>, (1)MRC Social, Genetic and Developmental Psychiatry Centre, Institute of Psychiatry, Kings College London, London, United Kingdom, (2)Institute of Cognitive Neuroscience, University College London, London, United Kingdom, (3)Child and Adolescent Psychiatry, Institute of Psychiatry, Kings College London, London, United Kingdom, (4)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom
- 11:00 82 158.082 Association of Internalising Traits and Autistic Traits in Adolescence in a Community-Based Twin Sample. A. D. Scherff<sup>1</sup>, T. Charman<sup>2</sup> and A. Ronald<sup>3</sup>, (1)Genes Environment Lifespan (GEL) laboratory, Centre for Brain and Cognitive Development, Department of Psychological Sciences, Birkbeck College, London, United Kingdom, (2)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (3)Birkbeck College, London, United Kingdom
- 9:00 83 158.083 Internalizing and Externalizing Behaviors in Children with ASD. C. Manangan<sup>1</sup>, H. N. Liming<sup>1</sup>, H. Dauterman<sup>1</sup>, B. J. Wilson<sup>1</sup> and K. Reynolds<sup>2</sup>, (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Seattle Pacific University, Seattle, WA
- 10:00 84 158.084 The Repetitive Behavior Spectrum: From Autism to Obsessive Compulsive Disorder. R. H. Rice<sup>1</sup>, Pittsford, NY
- 11:00 85 158.085 Reactive/Proactive Aggression, Emotion Regulation, and Empathy in Children with ASD. L. Stockmann<sup>1</sup>, L. B. Pouw<sup>2</sup> and C. Rieffe<sup>2</sup>, (1)Center for Autism, Leiden, Netherlands, (2)Developmental Psychology, Leiden University, Leiden, Netherlands

- 9:00 86 158.086 Use of On-Body Sensing and Computational Analysis to Automatically Detect Problem Behaviors. A. Rozga<sup>1</sup>, N. Y. Hammerla<sup>2</sup>, A. R. Reavis<sup>3</sup>, N. A. Call<sup>4</sup> and T. Plötz<sup>5</sup>, (1)Georgia Institute of Technology, Atlanta, GA, (2)School of Computing Science, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Marcus Autism Center & Children's Healthcare of Atlanta, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA, (5)School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA
- 10:00 87 158.087 Examining the Relation Between Sensory Sensitivity and Obsessive-Compulsive Behaviors in Autism Spectrum Disorders As Moderated by Early Language Acquisition. T. W. Soto<sup>1</sup>, L. Wainwright<sup>2</sup>, A. S. Carter<sup>3</sup>, I. Noens<sup>3,4</sup>, D. L. Pauls<sup>5</sup> and K. D. Tsatsanis<sup>6</sup>, (1)University of Massachusetts, Boston, MA, (2)University of Massachusetts, Boston, MA, (3)Psychiatric and Neurodevelopmental Genetics Unit, Massachusetts General Hospital, Boston, MA, (4)Parenting and Special Education Research Unit, Katholieke Universiteit Leuven, Leuven, Belgium, (5)Massachusetts General Hospital, Boston, MA, (6)Yale Child Study Center, New Haven, CT
- 11:00 88 158.088 Gender Differences in Obsessive and Compulsive Symptomatology Among Children with ASD. V. Livermore-Hardy<sup>1</sup>, D. H. Skuse<sup>2</sup> and W. P. Mandy<sup>3</sup>, (1)Social Communication Disorders Clinic, Great Ormond Street for Children Hospital NHS Trust, London, United Kingdom, (2)Institute of Child Health, London, United Kingdom, (3)University College London, London, United Kingdom
- 9:00 89 158.089 Psychopathology and Impairment in Children with ASD. A. J. Kaaf<sup>1</sup>, K. D. Gadwo<sup>2</sup> and L. Lecavalier<sup>3</sup>, (1)Nisonger Center, Columbus, OH, (2)State University of New York, Stony Brook, NY, (3)Ohio State University, Columbus, OH
- 10:00 90 158.090 Behavioral Intervention to Reduce Arousal Improves Compliance and Information Retrieval in Children with ASD. P. R. Zelazo<sup>1,2</sup>, C. Reid<sup>1</sup>, E. Neumark<sup>1,3</sup>, M. Vedenina<sup>1,4</sup> and J. A. Correa<sup>5</sup>, (1)Montreal Autism Centre, Montreal, QC, Canada, (2)Psychology, McGill University, Montreal, QC, Canada, (3)Psychology, Concordia University, Montreal, QC, Canada, (4)Concordia University, Centre for Research in Human Development, Montreal, QC, Canada, (5)Mathematics and Statistics, McGill University, Montreal, QC, Canada
- 11:00 91 158.091 Stability and Predictors of the Developmental Course From Childhood Into Adolescence of Co-Occurring Psychiatric Disorders in Individuals with ASD. C. Verheij<sup>1</sup>, S. C. Louwse<sup>2</sup>, J. Van der Ende<sup>1</sup>, F. Verheij<sup>1</sup>, F. C. Verhulst<sup>1</sup> and K. Greaves-Lord<sup>1,2</sup>, (1)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC – Sophia's Children's Hospital, Rotterdam, Netherlands, (2)Academie, Yulius, Rotterdam, Netherlands
- 9:00 92 158.092 Co-Occurring Symptoms in a Mixed Clinical Sample of Children with Autism Spectrum Disorders. N. Bilenberg, Child and Adolescent Psychiatry, University of Southern Denmark, Odense C, Denmark
- 10:00 93 158.093 Internalizing Problems and Emotion Dysregulation In Children with ASD. L. B. Pouw<sup>1</sup>, C. Rieffe<sup>1</sup> and L. Stockmann<sup>2</sup>, (1)Developmental Psychology, Leiden University, Leiden, Netherlands, (2)Center for Autism, Leiden, Netherlands
- 11:00 94 158.094 The Impact of the Marital Relationship, Family Environment, and Child Behavior on Maternal Depression. A. S. Weitlauf<sup>1</sup>, A. C. Vehorn<sup>1</sup>, S. P. White<sup>1</sup>, J. L. Taylor<sup>2</sup> and Z. Warren<sup>1</sup>, (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN
- 9:00 95 158.095 Early Temperament As a Predictor of Psychopathology in Younger Siblings of Children with Autism. P. A. Rao<sup>1,2</sup>, R. A. Vasa<sup>2,3</sup> and R. J. Landa<sup>4,5</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Center for Autism & Related Disorders, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD, (4)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (5)Johns Hopkins School of Medicine, Baltimore, MD
- 10:00 96 158.096 Disassociation of Maternal Stress in Autism, Fragile X, and Fragile X with Autism. L. M. McCary<sup>1</sup>, A. Robinson<sup>1</sup>, J. Kellett<sup>2</sup> and J. E. Roberts<sup>3</sup>, (1)Psychology, University of South Carolina, Columbia, SC, (2)University of South Carolina, Columbia, SC, (3)Department of Psychology, University of South Carolina, Columbia, SC
- 11:00 97 158.097 Stress in Parents of Preschoolers Diagnosed with Autism Spectrum Disorder. M. N. Simard<sup>1</sup>, E. Gisel<sup>2</sup>, E. Fombonne<sup>3,4</sup> and M. Couture<sup>5</sup>, (1)CHUQ Research Center, Montreal, QC, Canada, (2)McGill University, Montreal, QC, Canada, (3)Montreal Children's Hospital, Montreal, QC, Canada, (4)Psychiatry, McGill University, Montreal, QC, Canada, (5)Sherbrooke University, Sherbrooke, QC, Canada
- 9:00 98 158.098 Parental Distress in Pursuit of ASD Diagnostic Consultation. S. P. White<sup>1</sup>, J. A. Davidson, A. G. Nicholson, A. Vehorn, H. Noble, A. S. Weitlauf and Z. Warren, TRIAD, Vanderbilt Kennedy Center, Nashville, TN
- 10:00 99 158.099 Parental Stress in Families of Children with Autism and Other Developmental Disabilities: Associations with Ethnic Groups and Child-Comorbid Symptoms. M. D. Valicenti-McDermott<sup>1</sup>, K. Hottinger<sup>1</sup>, K. Lawson<sup>1</sup>, R. M. Seijo<sup>1</sup>, M. Schechtman<sup>1</sup>, L. H. Shulman<sup>1</sup> and S. Shinnar<sup>2</sup>, (1)CERC, Albert Einstein College of Medicine, Bronx, NY, (2)Neurology, Albert Einstein College of Medicine, Bronx, NY
- 11:00 100 158.100 Vicarious Futurity, Hope, and Well-Being in Parents of Children with Autism. D. J. Faso<sup>1</sup>, A. R. Neal<sup>2</sup> and C. L. Carlson<sup>3</sup>, (1)University of Texas at Dallas, Dallas, TX, (2)University of Texas, Austin, TX, (3)The University of Texas, Austin, TX



- 9:00 101 158.101 Family Functioning and Maternal Depression: A Latent Growth Curve Analysis. A. Zaidman-Zait<sup>1</sup>, P. Mirenda<sup>1</sup>, P. Szatmari<sup>2</sup>, S. E. Bryson<sup>3</sup>, E. Fombonne<sup>4</sup>, W. Roberts<sup>5</sup>, T. Vaillancourt<sup>6</sup>, J. Volden<sup>7</sup>, C. Waddell<sup>8</sup>, L. Zwaigenbaum<sup>7</sup>, S. Georgiades<sup>2</sup>, E. Duku<sup>2</sup>, A. Thompson<sup>2</sup> and T. Pathways in ASD Study Team<sup>9</sup>, (1)University of British Columbia, Vancouver, BC, Canada, (2)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (3)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (4)Psychiatry, McGill University, Montreal, QC, Canada, (5)University of Toronto, Toronto, ON, Canada, (6)University of Ottawa, Ottawa, ON, Canada, (7)University of Alberta, Edmonton, AB, Canada, (8)Simon Fraser University, Vancouver, BC, Canada, (9)McMaster University, Hamilton, ON, Canada
- 10:00 102 158.102 A Family Affair: Linking the Role of Parental Confidence, Siblings, and Emotion Regulation in Children with Autism Spectrum Disorders. N. M. Reyes<sup>1</sup> and A. Scarpa<sup>2</sup>, (1)Psychology, Virginia Tech, Blacksburg, VA, (2)Department of Psychology, Virginia Tech, Blacksburg, VA
- 11:00 103 158.103 The Nature of Savant Skills in Children with Autism Spectrum Disorders. R. Furlano<sup>1</sup> and E. A. Kelley<sup>2</sup>, (1)Psychology, Queen's University, Kingston, ON, Canada, (2)Department of Psychology, Queen's University, Kingston, ON, Canada
- 9:00 104 158.104 Differential Consequences of Bullying on Internalizing Symptoms in Adolescents with High-Functioning Autism. B. C. Gamber<sup>1</sup>, A. R. Neal-Beevers<sup>1</sup>, L. Sperle<sup>2</sup> and A. K. Stefanatos<sup>1</sup>, (1)University of Texas, Austin, TX, (2)University of Pittsburgh, Pittsburgh, PA
- 10:00 105 158.105 Resilience to Bullying Victimization Among Youth with Autism Spectrum Disorders. J. A. Weiss<sup>1</sup>, M. C. Cappadocia<sup>2</sup> and D. Pepler<sup>2</sup>, (1)Department of Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada
- 11:00 106 158.106 The Relationship Between Social Skill Deficits and Comorbidity Among Adolescents with Autism Spectrum Disorder. A. Pulido M.A.<sup>1,2</sup>, C. White<sup>3</sup>, R. Hodges<sup>4</sup> and A. J. Lincoln<sup>5</sup>, (1)Alliant International University, San Diego, CA, (2)Center for Autism Research and Evaluation, San Diego, CA, (3)Center for Autism Research Evaluation and Service, San Diego, CA, (4)CARES, San Diego, CA, (5)Alliant International University; Center for Autism Research, Evaluation and Service, San Diego, CA
- 9:00 107 158.107 Psychosexual Problems in Individuals with ASD: Prevalence, Predictors and Developmental Course. L. P. Dekker<sup>1,2</sup>, E. van der Vegt<sup>3</sup>, S. C. Louwse<sup>1</sup>, N. Tick<sup>2</sup>, F. C. Verhulst<sup>1</sup>, A. Maras<sup>2</sup> and K. Greaves-Lord<sup>1,2</sup>, (1)Department of Child & Adolescent Psychiatry and Psychology, Erasmus MC - Sophia's Children's Hospital, Rotterdam, Netherlands, (2)Academie, Yulius, Rotterdam, Netherlands, (3)Yulius, Barendrecht, Netherlands
- 10:00 108 158.108 Increased Rates of Gender Identity Issues Among Children and Adolescents with Autism Spectrum Disorders. J. Strang<sup>1</sup>, L. Kenworthy<sup>1</sup>, A. Dominska<sup>1</sup>, J. L. Sokoloff<sup>1</sup>, K. Walsh<sup>2</sup>, M. Berl<sup>3</sup>, E. Menvielle<sup>4</sup> and G. L. Wallace<sup>5</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Hematology/Oncology, Children's National Medical Center, Washington, DC, (3)Division of Neuropsychology, Children's National Medical Center, Rockville, MD, (4)Gender and Sexuality Development Program, Children's National Medical Center, Washington, DC, (5)NIMH, Bethesda, MD
- 11:00 109 158.109 Sexuality in a Community Based Sample of Adults with Autism Spectrum Disorder. L. L. Gilmour<sup>1</sup>, M. P. Schalomon<sup>2</sup> and V. Smith<sup>1</sup>, (1)Educational Psychology, University of Alberta, Edmonton, AB, Canada, (2)Psychology, Grant MacEwan University, Edmonton, AB, Canada

**Poster Sessions**

**159 - Core Deficits and Symptoms**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 110 159.110 Impairments in Real World Executive Function Increase From Childhood to Adolescence in Autism Spectrum Disorders. M. A. Rosenthal<sup>1</sup>, G. L. Wallace<sup>2</sup>, R. Lawson<sup>3</sup>, M. C. Wills<sup>1</sup>, E. Dixon<sup>4</sup>, B. Yerys<sup>5</sup>, A. Martin<sup>2</sup> and L. Kenworthy<sup>1</sup>, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)NIMH, Bethesda, MD, (3)Loyola University, Baltimore, MD, (4)Lab of Brain and Cognition, NIMH, Bethesda, MD
- 10:00 111 159.111 Factors Related to the Development of Bilingual Vocabularies in Young Children with Autism Spectrum Disorders. C. Hamby<sup>1</sup>, C. Roux<sup>2</sup>, M. J. Cecyrc<sup>3</sup>, J. Noseworthy<sup>3</sup> and E. Fombonne<sup>3,4</sup>, (1)Psychiatry/Autism Spectrum Disorders Research, Montreal Children's Hospital, Montreal, QC, Canada, (2)University of Quebec in Montreal, Montreal, QC, Canada, (3)Montreal Children's Hospital, Montreal, QC, Canada, (4)Psychiatry, McGill University, Montreal, QC, Canada
- 11:00 112 159.112 Associations of IQ and Autistic Symptomology with Functioning in Young Adults with ASD: Self- and Parent Report. S. K. Kapp<sup>1</sup>, A. Gantman<sup>2</sup> and E. Laugeson<sup>3</sup>, (1)Psychological Studies in Education, University of California, Los Angeles, CA, (2)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (3)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 9:00 113 159.113 Community Service Providers' Views and Experiences Regarding Bilingualism and Autism. K. Hudry<sup>1</sup> and L. Pamment, Olga Tension Autism Research Centre, Bundoora, Australia
- 10:00 114 159.114 Stability and Validity of a New Vocal Complexity Measure. P. J. Yoder<sup>1</sup>, D. K. Oller<sup>2</sup>, J. A. Richards<sup>3</sup>, S. Gray<sup>4</sup> and J. Gilkerson<sup>3</sup>, (1)Special Education, Vanderbilt University, Nashville, TN, (2)University of Memphis, Memphis, TN, (3)Research, LENA Foundation, Boulder, CO, (4)Self-Employed, Boulder, CO

- 11:00 115 159.115 Reduced Preference for Social Rewards in Toddlers with Autism: Relations with Symptoms and Treatment Response. K. Sullivan<sup>1</sup>, J. Munson<sup>2</sup> and G. Dawson<sup>3</sup>, (1)University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)University of North Carolina, Autism Speaks, Chapel Hill, NC
- 9:00 116 159.116 Social Functioning in Individuals with a History of Autism Spectrum Disorders Who Have Achieved Optimal Outcomes. A. Orinstein<sup>1</sup>, E. Troyb<sup>1</sup>, K. E. Tyson<sup>1</sup>, M. Helt<sup>1</sup>, M. A. Rosenthal<sup>2</sup>, J. Suh<sup>1</sup>, L. O'Connell<sup>3</sup>, M. Barton<sup>1</sup>, I. M. Eigsti<sup>4</sup>, E. A. Kelley<sup>3</sup>, L. Naigles<sup>1</sup>, M. C. Stevens<sup>5</sup>, R. T. Schultz<sup>6</sup> and D. A. Fein<sup>1</sup>, (1)University of Connecticut, Storrs, CT, (2)Children's National Medical Center, Center for Autism Spectrum Disorders, Bethesda, MD, (3)Department of Psychology, Queen's University, Kingston, ON, Canada, (4)University of Connecticut, Storrs, CT, (5)The Institute of Living, Hartford Hospital/Yale University, Hartford, CT, (6)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 117 159.117 Language Profiles of Boys with Idiopathic Autism or Fragile X Syndrome: A Cross-Disorder Comparison. A. McDuffie<sup>1</sup>, S. T. Kover<sup>2</sup>, R. J. Hagerman<sup>3</sup> and L. Abbeduto<sup>4</sup>, (1)Psychiatry, MIND Institute University of California Davis, Sacramento, CA, (2)University of Wisconsin, Madison Waisman Center, Madison, WI, (3)Pediatrics, U.C. Davis MIND Institute, Sacramento, CA, (4)Psychiatry, M.I.N.D. Institute University of California Davis, Sacramento, CA
- 11:00 118 159.118 Directed Vocalizations and Smiles Can Differ As Early As At 6 Month of Age. P. A. Filipek<sup>1</sup>, K. M. Johns<sup>2</sup>, M. M. Abdullah<sup>3</sup>, K. L. Pham<sup>4</sup>, P. L. Horner<sup>5</sup> and J. T. Phan<sup>4</sup>, (1)Children's Learning Institute and Division of Child & Adolescent Neurology, UT Health Sciences Center at Houston, Houston, TX, (2)School of Medicine, UT Health Sciences Center at Houston, Houston, TX, (3)Psychology and Social Behavior, University of California, Irvine, CA, (4)For OC Kids Neurodevelopmental Center, Orange, CA, (5)Department of Communication Disorders, California State University, Los Angeles, CA
- 9:00 119 159.119 Delayed Reversal Learning in Autism. T. Newton<sup>1</sup>, W. Ernst<sup>1</sup>, P. D. Chamberlain<sup>1</sup> and M. South<sup>1,2</sup>, (1)Neuroscience, Brigham Young University, Provo, UT, (2)Psychology, Brigham Young University, Provo, UT
- 10:00 120 159.120 ADOS Severity Scores Predict Performance on a Classic Measure of Intentional Understanding in Preschoolers on the Spectrum. J. Pandey<sup>1</sup>, J. Parish-Morris<sup>2</sup>, K. Hirsh-Pasek<sup>3</sup>, R. M. Golinkoff<sup>4</sup>, R. Pulverman<sup>5</sup>, R. T. Schultz<sup>6</sup> and S. Paterson<sup>7</sup>, (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)Temple University, Ambler, PA, (4)University of Delaware, Newark, DE, (5)Delaware State University, Dover, DE, (6)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (7)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 11:00 121 159.121 Identifying Pragmatic Language Skills Difficulties in School-Aged Boys with Autism Spectrum Disorder (ASD). C. Koning<sup>1</sup> and J. Volden<sup>2</sup>, (1)Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (2)University of Alberta, Edmonton, AB, Canada
- 9:00 122 159.122 Social Orienting in Children with ASD. D. Kamara<sup>1</sup>, E. J. H. Jones<sup>1</sup>, C. Rubery<sup>1</sup>, S. Corrigan<sup>1</sup>, J. N. Greenson<sup>2</sup>, K. Toth<sup>1,2</sup>, S. J. Webb<sup>1,2</sup> and G. Dawson<sup>3</sup>, (1)Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA, (3)University of North Carolina, Autism Speaks, Chapel Hill, NC
- 10:00 123 159.123 Vocabulary Composition in Toddlers with ASD: The Longitudinal Development of a Productive Verb Lexicon. C. Gilman<sup>1</sup>, J. Parish-Morris<sup>2</sup>, D. A. Fein<sup>3</sup> and L. Naigles<sup>3</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Connecticut, Storrs, CT
- 11:00 124 159.124 Neglecting the Eyes and It's Cascade Effect On Joint Attention Abilities In Children with ASDs. R. Fadda<sup>1</sup>, S. Congiu<sup>2</sup>, F. Musante<sup>2</sup>, G. S. Doneddu<sup>2</sup> and A. Salvago<sup>2</sup>, (1)Department of Psychology, University of Cagliari, Cagliari, Italy, (2)Center for Pervasive Developmental Disorders, AOB, Cagliari, Italy
- 9:00 125 159.125 Exploring Moral Judgment In High Functioning Autism: The Role of Emphaty and Theory of M.I.N.D. G. S. Doneddu<sup>1</sup>, R. Fadda<sup>2</sup>, L. Ferretti<sup>1</sup>, G. Saba<sup>1</sup>, F. Casano<sup>1</sup> and G. Macchiavello<sup>1</sup>, (1)Center for Pervasive Developmental Disorders, AOB, Cagliari, Italy, (2)Department of Psychology, University of Cagliari, Cagliari, Italy
- 10:00 126 159.126 Prelinguistic Predictors of Language in Young Children with Autism Spectrum Disorders. C. C. Wu<sup>1</sup>, C. H. Chiang<sup>2</sup> and Y. M. Hou<sup>3</sup>, (1)Department of Psychology, Kaohsiung Medical University, Taiwan, (2)National Chengchi University, Taipei, Taiwan, (3)Department of Psychiatry, Chia-Yi Chritian Hospital, Chai-Yi, Taiwan
- 11:00 127 159.127 Differences in Reaching and Object Exploration Skills Between Infants At Risk for Autism and Typically Developing Infants in the First 15 Months of Life. G. Ju<sup>1</sup>, M. Kaur<sup>1</sup>, A. C. Harris<sup>1</sup>, S. Srinivasan<sup>1</sup> and A. Bhat<sup>2</sup>, (1)Kinesiology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT
- 9:00 128 159.128 Validation of a Japanese Version of the Vineland Adaptive Behavior Scales, Second Edition: Comparison Between ASD, ADHD, and Intellectual Disability. H. Ito<sup>1</sup>, M. Ohnishi<sup>2</sup>, S. Ohtake<sup>1</sup>, F. Someki<sup>1</sup> and M. Tsujii<sup>3</sup>, (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Fukui University, Fukui, Japan, (3)Department of Contemporary Sociology, Chukyo University, Nagoya, Japan
- 10:00 129 159.129 Spoken Language Abilities in Adults with High-Functioning Autism. S. Kuo<sup>1</sup>, M. L. McEntee<sup>1</sup>, L. Bosley<sup>1</sup>, E. Lacey<sup>1</sup>, M. A. Andrejczuk<sup>1</sup>, A. Cooper<sup>1</sup> and B. Gordon<sup>1,2</sup>, (1)Cognitive Neurology/Neuropsychology, Department of Neurology, The Johns Hopkins University School of Medicine, Baltimore, MD, (2)Department of Cognitive Science, The Johns Hopkins University, Baltimore, MD

- 11:00 130 159.130 Motor Functioning and Language Development in Preschool Children with Autism. A. Hellendoorn<sup>1</sup>, P. P. Leseman<sup>1</sup>, L. Wijnroks<sup>1</sup>, C. Dietz<sup>2</sup>, J. K. Buitelaar<sup>3,4</sup> and E. Van Daalen<sup>5</sup>, (1)Department of Educational Sciences, Utrecht University, Utrecht, Netherlands, (2)Youth Division, Altrecht Institute for Mental Health Care, Utrecht, Netherlands, (3)Department of Cognitive Neuroscience, Donders Institute for Brain, Cognition and Behavior, Radboud University, Nijmegen, Netherlands, (4)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (5)Department of Child - and Adolescent Psychiatry, University Medical Centre Utrecht, Utrecht, Netherlands
- 9:00 131 159.131 The Regression of Language Skills in Preschool Children with Autism Spectrum Disorder. B. Backes<sup>1</sup>, R. B. Zanon, R. G. Endres, M. A. Meimes and C. A. Bosa, Psychology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil
- 10:00 132 159.132 Speech Delays and Early Social Communication and Symbolic Functioning in Toddlers with and without Autism. S. Shumway<sup>1</sup>, A. Thurm<sup>2</sup>, C. Marti<sup>2</sup>, L. Joseph<sup>2</sup>, L. Rothschild<sup>2</sup>, L. B. Swineford<sup>3</sup> and D. Luckenbaugh<sup>4</sup>, (1)Communication Sciences and Disorders, University of Utah, Salt Lake City, UT, (2)Pediatrics & Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (3)Florida State University Autism Institute, Tallahassee, FL, (4)Experimental Therapeutics and Pathophysiology Branch, National Institute of Mental Health, Bethesda, MD
- 11:00 133 159.133 Differences in Associative Learning Between Infants At Risk for Autism and Typically Developing Infants within the First 15 Months of Life. A. Kinsella<sup>1</sup>, S. Srinivasan<sup>1</sup>, M. Kaur<sup>1</sup> and A. Bhat<sup>2</sup>, (1)Kinesiology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT
- 9:00 134 159.134 Differential Predictors of Social Behavior with Unfamiliar Adults Versus Peers in Higher Functioning Children with Autism. L. Usher<sup>1</sup> and H. A. Henderson<sup>2</sup>, (1)University of Miami, Coral Gables, FL, (2)University of Miami, Coral Gables, FL
- 10:00 ▶ 135 159.135 A Look At the Input: Relationships Between Parental Speech and Child Vocabulary in Autism and Typical Development. J. Bang<sup>1</sup> and A. Nadig, School of Communication Sciences & Disorders, McGill University, Montreal, QC, Canada
- 11:00 136 159.136 Comprehension of Head Nodding and Head Shaking Gestures in Early Childhood. M. Fusaro<sup>1</sup>, G. S. Young<sup>2</sup> and S. J. Rogers<sup>2</sup>, (1)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, CA
- 9:00 137 159.137 Early Developmental Patterns of Receptive and Expressive Language in Children with ASD. M. Matthews<sup>1</sup>, C. E. Venker, E. Haebig and S. Ellis Weismer, Waisman Center, University of Wisconsin-Madison, Madison, WI
- 10:00 138 159.138 Gender Trends in the Friend Preference and Social Acceptance of Girls and Boys with Autism. M. Dean<sup>1</sup> and C. Kasari<sup>2</sup>, (1)University of California, Los Angeles, CA, (2)University of California, Los Angeles, CA
- 11:00 139 159.139 Parent-Child Shared Storybook Reading for Children with Autism Spectrum Disorders: A Comparison with Typical Development and Relationships with Child Language. S. C. Smith<sup>1</sup> and A. Nadig<sup>2</sup>, (1)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada, (2)School of Communication Sciences & Disorders, McGill University, Montreal, QC, Canada
- 9:00 140 159.140 Early Vocal Development in Infants At Risk of Autism: Prosody and Social Interaction. G. Ramsay<sup>1</sup>, K. Muench and A. Klin, Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA
- 10:00 141 159.141 Pronoun Comprehension As a Window Into Pragmatic Processing in ASD. R. Nappa, N. Hahn and J. Snedeker, Psychology, Harvard University, Cambridge, MA
- 11:00 142 159.142 Executive Functioning and Responsiveness to Joint Attention in Autism. K. Dela Cruz<sup>1</sup>, K. Gillespie-Lynch<sup>2</sup>, N. Le<sup>1</sup>, T. Hutman<sup>3</sup> and S. P. Johnson<sup>1</sup>, (1)University of California, Los Angeles, CA, (2)Psychology, UCLA, Los Angeles, CA, (3)Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA

**Poster Sessions**

**160 - Core Deficits and Symptoms II**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 143 160.143 Exploring Relationships Between Anxiety Symptoms and Repetitive Behaviors in Children with Autism Spectrum Disorders. I. Giserman<sup>1</sup>, L. Berry<sup>1</sup>, C. M. Puleo<sup>1</sup>, M. C. Souders<sup>1</sup>, A. Bennett<sup>1</sup>, J. S. Miller<sup>2</sup> and J. D. Herrington<sup>1</sup>, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 144 160.144 Adult-Supported Intention-Reading in Children with High-Functioning Autism Spectrum Disorders. K. J. Greenslade<sup>1</sup> and T. E. Coggins, Department of Speech and Hearing Sciences, University of Washington, Seattle, WA
- 11:00 145 160.145 The Female Profile of Autism: An Examination of Friendships. A. M. Head<sup>1</sup>, J. A. McGillivray<sup>2</sup>, J. A. Manjiviona<sup>3</sup>, T. Attwood<sup>4</sup> and M. A. Stokes<sup>2</sup>, (1)Psychology, Deakin University, Burwood, Australia, (2)Psychology, Deakin University, Burwood, Australia, (3)Department of Psychology, The University of Melbourne, Melbourne, Australia, (4)Psychology, Griffith University, Brisbane, Australia
- 9:00 146 160.146 Clinical Presentation of ASD in Preschool-Aged Girls and Boys: Differences That Could Delay Identification of Girls. L. Huang-Storms<sup>1</sup>, Childrens Medical Center Dallas, Dallas, TX
- 10:00 147 160.147 Characterizing Language Development in Infants At Risk for Language Impairment. K. Downing<sup>1</sup> and V. Vogel-Farley<sup>2</sup>, (1)Department of Psychology, Boston University, Boston, MA, (2)Labs of Cognitive Neuroscience, Children's Hospital Boston, Boston, MA



- 11:00 148 160.148 Gestures As Facilitators for Word Learning in Children with ASD: The Role of Social Intent and Attentional Cues. K. E. Patrick<sup>1</sup>, F. Hurewitz<sup>2</sup> and A. E. Booth<sup>3</sup>, (1)Psychology, Drexel University, Philadelphia, PA, (2)Department of Psychology, Drexel University, Philadelphia, PA, (3)Communication Sciences and Disorders, Northwestern University, Evanston, IL
- 9:00 149 160.149 Parents of Children with ASD Scaffold Novel Word Learning. A. M. Gonzalez Barrero<sup>1</sup> and A. Nadig<sup>2</sup>, (1)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada, (2)School of Communication Sciences & Disorders, McGill University, Montreal, QC, Canada
- 10:00 150 160.150 Communication Spontaneity in Infants At High and Low Risk for ASD. S. L. Alvarez<sup>1</sup>, A. M. Estes<sup>2</sup>, J. E. Elgin<sup>1</sup>, B. LeBlanc<sup>1</sup> and A. D. Rosenberg<sup>1</sup>, (1)University of Washington, Seattle, WA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA
- 11:00 151 160.151 Initial Psychometric Properties of the Autism Impact Measure (AIM): A New Tool for Treatment Outcome Measurement. S. M. Kanne<sup>1</sup>, M. O. Mazurek<sup>2</sup>, D. Sikora<sup>3</sup>, B. J. Bellando<sup>4</sup>, B. H. Freedman<sup>5</sup>, B. L. Handen<sup>6</sup>, T. Katz<sup>7</sup>, E. Leuthe<sup>8</sup>, M. M. Powell<sup>9</sup>, J. Vickstrom<sup>10</sup>, L. Walters<sup>11</sup> and Z. Warren<sup>12</sup>, (1)Pediatrics, Baylor College of Medicine, Missouri City, TX, (2)Health Psychology, University of Missouri, Columbia, MO, (3)Oregon Health & Science University, Portland, OR, (4)University of Arkansas for Medical Sciences, Little Rock, AR, (5)Kennedy Krieger Institute, Baltimore, MD, (6)University of Pittsburgh School of Medicine, Pittsburgh, PA, (7)University of Colorado, Aurora, CO, (8)JFK Partners – University of Colorado Denver, Aurora, CO, (9)Pediatrics, Baylor College of Medicine, Houston, TX, (10)Vanderbilt Kennedy Center, Nashville, TN, (11)Arkansas Children's Hospital Research Institute, Little Rock, AR, (12)Vanderbilt University, Nashville, TN
- 9:00 152 160.152 Characterizing the Language Phenotype in Adults with ASD and Its Relationship with Daily Living Skills. A. Sterling<sup>1</sup> and M. M. Seltzer, Waisman Center, University of Wisconsin-Madison, Madison, WI
- 10:00 153 160.153 Correlates of Early Imitation Recognition in Preschoolers with ASD. N. I. Berger<sup>1</sup> and B. Ingersoll<sup>2</sup>, (1)Michigan State University, East Lansing, MI, (2)Psychology, Michigan State University, East Lansing, MI
- 11:00 154 160.154 The Social Awareness Knowledge (SAKT) Test: An Interactive Test to Detect Autism Spectrum Disorders (ASD) in Toddlers. R. Choueiri<sup>1</sup>, S. Mangan<sup>2</sup>, E. Stern<sup>1</sup> and S. Wagner<sup>3</sup>, (1)Floating Hospital for Children, Boston, MA, (2)Claremont Graduate University, Claremont, CA, (3)Behavior Development and Educational Services, Lexington, MA
- 9:00 155 160.155 The Speech-Gesture Link and Trajectory of Language Development Among Young Children At Risk for Autism. K. Sheperd<sup>1,2</sup> and R. J. Landa<sup>1,2</sup>, (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD
- 10:00 156 160.156 Factors Associated with Empathic Behavior in Children and Adolescents with High-Functioning ASD. A. M. Scheeren<sup>1</sup>, P. C. Mundy<sup>2</sup>, H. M. Koot<sup>1</sup>, L. Mous<sup>1</sup> and S. Begeer<sup>1</sup>, (1)VU University, Amsterdam, Netherlands, (2)M.I.N.D. Institute, UC Davis, Sacramento, CA
- 11:00 157 160.157 Deconstructing the Play Impairment in Autism: An Analysis of Interdependent Variables. C. E. Harrop<sup>1</sup>, R. Emsley<sup>2</sup>, J. Green<sup>1</sup> and P. Consortium<sup>3</sup>, (1)Community-based Medicine, University of Manchester, Manchester, United Kingdom, (2)Health Methodology Research Group, University of Manchester, Manchester, United Kingdom, (3)University of Manchester, Manchester, United Kingdom
- 9:00 158 160.158 Assessing Receptive Vocabulary Knowledge in Individuals with Autism Using Implicit Measures. I. Gangopadhyay<sup>1</sup>, L. Bosley<sup>1</sup>, K. Ledoux<sup>1</sup> and B. Gordon<sup>1,2</sup>, (1)Cognitive Neurology/Neuropsychology, Department of Neurology, The Johns Hopkins University School of Medicine, Baltimore, MD, (2)Department of Cognitive Science, The Johns Hopkins University, Baltimore, MD
- 10:00 159 160.159 Beyond Pointing: Gesture Profiles in the First Year Differentiate Infants with ASD, Language Delays, and Typical Development. C. C. Clements<sup>1</sup>, J. Garzarek<sup>2</sup>, S. Macari<sup>2</sup>, D. Campbell<sup>2</sup> and K. Chawarska<sup>2</sup>, (1)Department of Psychiatry, Massachusetts General Hospital, Boston, MA, (2)Child Study Center, Yale University School of Medicine, New Haven, CT
- 11:00 160 160.160 A Second Look At Imitation: Imitative Errors in Children with Autism Spectrum Disorders. M. Sevelev<sup>1</sup>, J. M. Gillis<sup>1</sup>, R. E. Mattson<sup>1</sup> and R. G. Romanczyk<sup>2</sup>, (1)Auburn University, Auburn, AL, (2)Institute for Child Development, State University of NY at Binghamton, Binghamton, NY
- 9:00 161 160.161 Nonverbal Referential Communication and Language in Infants At High Risk for ASD. C. J. Grantz<sup>1</sup>, L. V. Ibanez<sup>2</sup>, D. N. Gangi<sup>3</sup>, W. L. Stone<sup>4</sup>, Z. Warren<sup>5</sup> and D. S. Messinger<sup>6</sup>, (1)University of Miami, Coral Gables, FL, (2)CHDD, University of Washington Autism Center, Seattle, WA, (3)Department of Psychology, University of Miami, Coral Gables, FL, (4)University of Washington, Seattle, WA, (5)TRIAD, Vanderbilt Kennedy Center, Nashville, TN, (6)Psychology, University of Miami, Coral Gables, FL
- 10:00 162 160.162 Identifying Features of ASD Language Impairment in Narrative Retellings. E. T. Prud'hommeaux<sup>1</sup>, B. Roark, L. M. Black and J. van Santen, Center for Spoken Language Understanding, Oregon Health & Science University, Beaverton, OR
- 11:00 163 160.163 Responsive Parental Behaviour Predicts Joint Engagement in Toddlers with Autism Spectrum Disorder (ASD). S. Y. Patterson<sup>1</sup>, L. Elder<sup>2</sup>, A. Gulsrud<sup>3</sup> and C. Kasari<sup>4</sup>, (1)Graduate School of Education and Information Studies, University of California, Los Angeles, CA, (2)University of Washington, Seattle, WA, (3)UCLA, Los Angeles, CA, (4)University of California, Los Angeles, CA
- 9:00 164 160.164 Structural Equation Modeling to Measure Well-Being and Its Association with Autism Symptoms. B. Harrison<sup>1</sup> and T. Smith<sup>2</sup>, (1)University of Rochester, Rochester, NY, (2)Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY

- 10:00 165 160.165 Screening Children with Autism Spectrum Disorders (ASD) Using the Japanese Version of the Strengths and Difficulties Questionnaire (J-SDQ). S. Ohtake<sup>1</sup>, F. Someki<sup>1</sup>, H. Ito<sup>1</sup>, M. Ohnishi<sup>2</sup> and M. Tsujii<sup>3</sup>, (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Fukui University, Fukui, Japan, (3)Department of Contemporary Sociology, Chukyo University, Nagoya, Japan
- 11:00 166 160.166 Evaluation of Classroom Performance in Students with Autism Spectrum Disorder. N. Sparapani<sup>1</sup>, L. Morgan<sup>2</sup> and A. M. Wetherby<sup>1</sup>, (1)Florida State University Autism Institute, Tallahassee, FL, (2)Autism Institute, Florida State University, Tallahassee, FL
- 9:00 167 160.167 Exploring the Impact of Vygotsky in Pre-School Autism. C. E. Harrop<sup>1</sup>, J. Green<sup>1</sup> and P. Consortium<sup>2</sup>, (1)Community Based Medicine, University of Manchester, Manchester, United Kingdom, (2)University of Manchester, Manchester, United Kingdom
- 10:00 168 160.168 Age of First Words Predicts Cognitive Ability and Adaptive Skills in Children with ASD. J. Mayo<sup>1</sup>, C. Chlebowski<sup>2</sup>, D. A. Fein<sup>3</sup> and I. M. Eigsti<sup>4</sup>, (1)University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT, (3)Department of Psychology, University of Connecticut, Storrs, CT, (4)University of Connecticut, Storrs, CT
- 11:00 169 160.169 Characteristics of Toddlers Screening False Positive on the Modified Checklist for Autism in Toddlers (M-CHAT). S. D. Tomchek<sup>1</sup>, L. L. Sears<sup>1</sup> and C. G. Sears<sup>2</sup>, (1)Pediatrics, University of Louisville, Louisville, KY, (2)Biology, Goshen College, Goshen, IN
- 9:00 170 160.170 The Relationship of Motor Skills & Social Skills in Young Children with Autism. M. I. MacDonald<sup>1</sup>, 202 Women's Building, Corvallis, OR
- 10:00 171 160.171 Asperger Syndrome in Adults: Evidence for the Validity of Contemporary Screens. B. M. Stoesz<sup>1</sup>, J. Montgomery<sup>2</sup>, L. Hellsten<sup>3</sup>, K. Stoddart<sup>4</sup>, L. J. Burke<sup>5</sup> and M. A. Stokes<sup>6</sup>, (1)Psychology, University of Manitoba, Altona, MB, Canada, (2)Psychology, University of Manitoba, Winnipeg, MB, Canada, (3)Department of Educational Psychology & Special Education, University of Saskatchewan, Saskatoon, SK, Canada, (4)Redpath Centre, Toronto, ON, Canada, (5)The Redpath Centre, Toronto, ON, Canada, (6)School of Psychology, Deakin University, Burwood, Australia
- 11:00 172 160.172 Divergence of Object Play Trajectories Between High-Risk Infant Siblings and Low-Risk Controls Occurs Between 15 and 18 Months of Age. T. P. Nguyen<sup>1</sup>, L. V. Ibanez<sup>2</sup>, M. Fong<sup>3</sup>, D. S. Messinger<sup>4</sup>, C. J. Grantz<sup>5</sup>, Z. Warren<sup>6</sup> and W. L. Stone<sup>7</sup>, (1)Special Education, San Francisco State University, San Francisco, CA, (2)CHDD, University of Washington Autism Center, Seattle, WA, (3)University of Washington Autism Center CHDD, Seattle, WA, (4)Psychology, University of Miami, Coral Gables, FL, (5)University of Miami, Coral Gables, FL, (6)Vanderbilt University, Nashville, TN, (7)University of Washington, Seattle, WA
- 9:00 173 160.173 Memantine Treatment for Behavioral Improvement in Autism. R. Low<sup>1</sup> and C. Lepage<sup>2</sup>, (1)Sutter Neuroscience Medical Group, Sacramento, CA, (2)Sutter Neuroscience Medical Group, Sacramento, CA

- 10:00 174 160.174 Potential Gender Differences in Older Children and Adolescents with Autism Spectrum Disorder. A. M. Schmidt<sup>1</sup>, M. A. Winter-Messiers and T. Oswald, University of Oregon, Eugene, OR
- 11:00 175 160.175 Theory of Mind and IQ in High Ability Youth with An ASD. A. Berns<sup>1</sup> and S. Assouline<sup>2</sup>, (1)The University of Iowa, North Liberty, IA, (2)The University of Iowa, Iowa City, IA
- 9:00 176 160.176 The Psychometric Evaluation of the Theory of Mind Inventory. T. L. Hutchins<sup>1</sup>, University of Vermont, Burlington, VT

**Poster Sessions**

**161 - Core Deficits and Symptoms III**

8:00 AM - 12:30 PM - Sheraton Hall

- 9:00 ▶ 177 161.177 Comparing Early Language Development in Monolingual- and Bilingual-Exposed Children with Autism Spectrum Disorders. P. Miranda<sup>1</sup>, K. Ohashi<sup>2</sup>, J. Petersen<sup>3</sup>, S. Marinova-Todd<sup>1</sup>, C. Hambly<sup>4</sup>, E. Fombonne<sup>4</sup>, P. Szatmari<sup>5</sup>, S. E. Bryson<sup>6</sup>, W. Roberts<sup>7</sup>, I. M. Smith<sup>6</sup>, T. Vaillancourt<sup>8</sup>, J. Volden<sup>9</sup>, L. Zwaigenbaum<sup>9</sup>, S. Georgiades<sup>5</sup> and A. Thompson<sup>5</sup>, (1)University of British Columbia, Vancouver, BC, Canada, (2)ABA Learning Centre, Richmond, BC, Canada, (3)Down Syndrome Research Foundation, Burnaby, BC, Canada, (4)McGill University, Montreal, QC, Canada, (5)Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (6)Dalhousie University/IWK Health Centre, Halifax, NS, Canada, (7)Autism Research Unit, The Hospital for Sick Children, Toronto, ON, Canada, (8)University of Ottawa, Ottawa, ON, Canada, (9)University of Alberta, Edmonton, AB, Canada
- 10:00 178 161.178 The Autism Quotient Has Concurrent Validity with the Social Responsiveness Scale. K. Armstrong<sup>1</sup> and G. Iarocci, Psychology, Simon Fraser University, Burnaby, BC, Canada
- 11:00 179 161.179 Responding to Joint Attention Requests From Virtual and Non-Virtual Social Partners. B. Lambert<sup>1</sup>, A. Gutierrez<sup>1</sup>, W. Mattson<sup>1</sup>, J. Artigas<sup>1</sup>, O. Martinez<sup>2</sup>, M. Kimijima<sup>1</sup>, J. Cassell<sup>3</sup>, J. Cohn<sup>4</sup> and D. S. Messinger<sup>1</sup>, (1)Psychology, University of Miami, Coral Gables, FL, (2)University of Miami, Coral Gables, FL, (3)Northwestern University, Evanston, IL, (4)Psychology, University of Pittsburgh, Pittsburgh, PA
- 9:00 180 161.180 The Influence of Social-Communicative Skills on the General Development of Toddlers with Autism Spectrum Disorder (ASD). L. Verhaeghe<sup>1</sup>, M. Dereu, P. Warreyn and H. Roeyers, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium
- 10:00 181 161.181 Critical Evaluation of Commonly Used Assessments of Theory of Mind Abilities. K. V. O'Connor<sup>1</sup>, J. P. Stichter<sup>2</sup> and M. Herzog<sup>3</sup>, (1)Special Education, University of Missouri, Columbia, MO, (2)University of Missouri, Columbia, MO, (3)University of Missouri, Columbia, MO

- 11:00 182 161.182 Predictive Utility of CBCL Subscale Scores on Autism Diagnoses in Preschool-Aged Children. S. E. Hoffenberg<sup>1</sup> and S. E. Crosssett<sup>2</sup>, (1)Pediatric Neurodevelopmental Center, Marcus Autism Center: Children's Healthcare of Atlanta, Atlanta, GA, (2)Pediatric Neurodevelopment Center, Marcus Autism Center: Children's Healthcare of Atlanta, Atlanta, GA
- 9:00 183 161.183 Psychotropic Medication Use in Children Before Autism Spectrum Diagnosis Is Made. I. Bukelis<sup>1</sup>, A. N. Harris<sup>2</sup>, S. E. O'Kelley<sup>3</sup>, K. Guest<sup>4</sup>, M. W. Gower<sup>5</sup> and F. J. Biasini<sup>4</sup>, (1)Psychiatry Residency Program, University of Alabama, Birmingham, AL, (2)Developmental Psychology, The University of Alabama, Birmingham, AL, (3)UAB Civitan-Sparks Clinics, Birmingham, AL, (4)Psychology, University of Alabama, Birmingham, AL, (5)University of Alabama, Birmingham, AL
- 10:00 184 161.184 Pronounced Lateral Glances in Children with ASDs and Parents Perception of Social Abilities in Daily Life. M. Foscoliano<sup>1</sup>, R. Fadda<sup>2</sup>, G. S. Doneddu<sup>1</sup>, P. M. Peruzzi<sup>1</sup>, F. Casano<sup>1</sup> and G. Frigo<sup>1</sup>, (1)Center for Pervasive Developmental Disorders, AOB, Cagliari, Italy, (2)Department of Psychology, University of Cagliari, Cagliari, Italy
- 11:00 185 161.185 Coding Joint Engagement Live in School-based Research: Reliability and Psychometric Considerations. J. R. Dykstra<sup>1</sup>, B. Boyd<sup>2</sup>, L. R. Watson<sup>1</sup>, C. McCarty<sup>2</sup>, G. T. Baranek<sup>2</sup> and E. Crais<sup>1</sup>, (1)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (2)Occupational Science, University of North Carolina, Chapel Hill, NC
- 9:00 186 161.186 Motor Behaviors and Associations with Later Consonant Inventory in Nonverbal Children with ASD. E. Patten<sup>1</sup>, L. R. Watson<sup>2</sup> and P. J. Yoder<sup>3</sup>, (1)Communication Sciences and Disorders, UNC Greensboro, Greensboro, NC, (2)Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (3)Vanderbilt University, Nashville, TN
- 10:00 187 161.187 Empathic Behavior in Children and Adolescents with High-Functioning ASD. A. M. Scheeren<sup>1</sup>, P. C. Mundy<sup>2</sup>, H. M. Koot<sup>1</sup>, L. Mous<sup>1</sup> and S. Begeer<sup>1</sup>, (1)VU University, Amsterdam, Netherlands, (2)MIND Institute, UC Davis, Sacramento, CA
- 11:00 188 161.188 Sibling Relationships and Social Skills in Adolescents With and Without ASD. B. Caplan<sup>1</sup>, C. Neece<sup>2</sup> and B. Baker<sup>1</sup>, (1)Department of Psychology, University of California, Los Angeles, CA, (2)Department of Psychology, Loma Linda University, Loma Linda, CA
- 9:00 189 161.189 Does Social Shyness Predict Autism in High Risk Preschoolers with FXS? A Longitudinal Examination of Behavioral and Biomarkers of Autism. M. Mounts<sup>1</sup>, B. Tonnsen<sup>1</sup>, K. Rizzo<sup>1</sup>, A. Ingram<sup>1</sup>, D. Hatton<sup>2</sup> and J. E. Roberts<sup>1</sup>, (1)Department of Psychology, University of South Carolina, Columbia, SC, (2)Vanderbilt University, Nashville, TN
- 10:00 190 161.190 The Influence of Social Communicative Abilities on Language Development in Children At Risk for Autism Spectrum Disorder: A Prospective Longitudinal Study. M. Dereu, H. Roeyers, P. Warreyn and R. Ramaekers, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium
- 11:00 191 161.191 Accounting for Social Skills Deficits in Adolescents with ASD, Intellectual Disability, and Typical Development. R. W. Ellingsen<sup>1</sup>, J. Blacher<sup>2</sup> and E. Laugeson<sup>3</sup>, (1)Clinical Psychology, University of California, Los Angeles, CA, (2)Graduate School of Education, University of California, Riverside, CA, (3)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 9:00 192 161.192 Parental Concerns: Consistency Across Question Format and Relationship to Child Performance. B. Brooks, K. Casagrande and D. L. Robins, Georgia State University, Atlanta, GA
- 10:00 193 161.193 Perceptions of Peer Rejection Among Adolescents with ASD: Comparing Adolescent, Parent, and Teacher Reports. A. R. Dillon<sup>1</sup>, S. Bates<sup>2</sup> and E. Laugeson<sup>2</sup>, (1)Pacific Graduate School of Psychology, Palo Alto, CA, (2)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 11:00 194 161.194 Syntactic Comprehension in Boys with Autism Spectrum Disorders: Evidence From Specific Constructions. S. T. Kover<sup>1</sup>, E. Haebig<sup>1</sup>, A. Oakes<sup>2</sup>, A. McDuffie<sup>3</sup>, R. J. Hagerman<sup>4</sup> and L. Abbeduto<sup>3</sup>, (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)M.I.N.D. Institute, University of California, Davis, Sacramento, CA, (3)Psychiatry, M.I.N.D. Institute University of California Davis, Sacramento, CA, (4)Pediatrics, U.C. Davis M.I.N.D. Institute, Sacramento, CA
- 9:00 195 161.195 The Relationship Between Motor and Language Abilities in Autism Spectrum Disorders. A. N. Harris<sup>1</sup>, M. K. McCalla<sup>2</sup>, S. E. O'Kelley<sup>3</sup> and K. Guest<sup>4</sup>, (1)The University of Alabama, Birmingham, AL, (2)University of Alabama, Birmingham, AL, (3)UAB Civitan-Sparks Clinics, Birmingham, AL, (4)Psychology, University of Alabama, Birmingham, AL
- 10:00 196 161.196 Differences in Object Sharing and Locomotor Skills Between Infants At Risk for Autism and Typically Developing Infants in the First 15 Months of Life. E. Cha<sup>1</sup>, S. Srinivasan<sup>1</sup>, M. Kaur<sup>1</sup> and A. Bhat<sup>2</sup>, (1)Kinesiology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT
- 11:00 197 161.197 Usability & Likability of the Virtual Environment for Social Information Processing (VESIP TM) for Children with and without Autism Spectrum Disorders. N. M. Russo-Ponsaran<sup>1</sup>, C. McKown<sup>1</sup>, J. Johnson<sup>1</sup>, A. Allen<sup>1</sup> and K. Knudsen<sup>2</sup>, (1)Behavioral Sciences; Rush NeuroBehavioral Center, Rush University Medical Center, Skokie, IL, (2)Soar Technology, Inc., Ann Arbor, MI
- 9:00 198 161.198 Autism Symptom Severity As Moderator of IQ and Language Development Among Children with Delayed Phrase Speech and Autism Spectrum Disorder. P. Mathy<sup>1</sup>, E. L. Wodka<sup>2</sup> and L. Kalb<sup>2</sup>, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD
- 10:00 199 161.199 Parents' perception of the First Symptoms of Autism Spectrum Disorder: A Retrospective Study. R. B. Zanon<sup>1</sup>, B. Backes<sup>2</sup>, R. G. Endres<sup>2</sup>, R. G. Gower<sup>2</sup> and C. A. Bosa<sup>2</sup>, (1)Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil, (2)Psychology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil



- 11:00 200 161.200 Differences in Emotional Self-Regulation within ASD, ADHD and Typically Developing Populations. A. T. Dovi<sup>1</sup>, E. Allain, C. M. Brewton and G. T. Schanding, School Psychology, University of Houston, Houston, TX
- 9:00 201 161.201 Predictors of Initial Language Level and Rates of Language Growth in Young Children with ASD. S. Ellis-Weismer<sup>1</sup>, C. E. Venker<sup>2</sup>, H. Sindberg<sup>3</sup> and C. E. Ray-Subramanian<sup>4</sup>, (1)University of Wisconsin, Middleton, WI, (2)Waisman Center, University of Wisconsin, Madison, WI, (3)University of Wisconsin, Madison, WI, (4)Waisman Center, University of Wisconsin, Madison, WI
- 10:00 ▶ 202 161.202 Parental Recognition of Early Signs of ASD in Venezuelan Children. C. Montiel-Nava<sup>1</sup>, M. A. Soto<sup>2</sup>, M. Marín<sup>2</sup>, Z. Gonzalez<sup>3</sup>, J. A. Chacín<sup>4</sup> and J. Pena<sup>5</sup>, (1)La Universidad del Zulia, Maracaibo, Venezuela, (2)Universidad Rafael Urdaneta, Maracaibo, Venezuela, (3)Psychology, La Universidad del Zulia, Maracaibo, Venezuela, (4)Genetics, La Universidad del Zulia, Maracaibo, Venezuela, (5)Pediatrics, La Universidad del Zulia, Maracaibo, Venezuela
- 11:00 203 161.203 How Do the Functions of Restricted and Repetitive Behaviors Vary with Developmental Level in Children with ASD?. J. Lidstone<sup>1</sup>, M. Uljarevic<sup>1</sup>, S. R. Leekam<sup>1</sup>, H. Kanaris<sup>2</sup>, A. M. McKigney<sup>3</sup>, J. Mullis<sup>4</sup> and R. Paradise<sup>5</sup>, (1)School of Psychology, Cardiff University, Cardiff, United Kingdom, (2)Speech and Language Therapy Dept, St. Cadocs Hospital, Newport, United Kingdom, (3)Child and Adolescent Unit, St Cadoc's Hospital, Newport, United Kingdom, (4)Speech and Language Therapy Department, Cardiff & Vale University Health Board, Cardiff, United Kingdom, (5)St. David's Hospital, Cardiff, United Kingdom
- 9:00 204 161.204 Superior Auditory Memory in Young Children with ASD? Results From a Non-Word Repetition Task and Relationships with Vocabulary. A. K. Mulligan<sup>1</sup> and A. Nadig, School of Communication Sciences & Disorders, McGill University, Montreal, QC, Canada
- 10:00 205 161.205 Repetitive Behaviors and Executive Functions in Children with High Functioning Autism Spectrum Disorders. K. Jitlina<sup>1</sup>, A. McCrimmon<sup>1</sup>, A. A. Altomare<sup>2</sup> and R. L. Matchullis<sup>1</sup>, (1)University of Calgary, Calgary, AB, Canada, (2)School and Applied Child Psychology, University of Calgary, Calgary, AB, Canada
- 11:00 206 161.206 Mentalizing Knowledge of the Self Versus Others: Distinct Clinical Predictors of Social Maladjustment in Children with Higher Functioning Autism. D. C. Coman<sup>1</sup>, N. K. Coman<sup>1</sup>, N. E. Zahka<sup>2</sup>, C. Hileman<sup>3</sup> and H. A. Henderson<sup>1</sup>, (1)Psychology, University of Miami, Coral Gables, FL, (2)Behavioral Medicine and Clinical Psychology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)M.I.N.D. Institute, UC Davis, Sacramento, CA
- 9:00 207 161.207 Exploring the Relationship Between Communication Skills and Sleep Problems in Autism Spectrum Disorders. M. K. McCalla<sup>1</sup>, A. N. Harris, E. H. Sheridan, K. Guest and S. E. O'Kelley, The University of Alabama at Birmingham, Birmingham, AL
- 10:00 208 161.208 Constructs of Social Communication in ASD Measures, Categorized by the Who's International Classification of Functioning, Disability and Health (ICF). M. J. Cooley Hidecker<sup>1</sup>, B. M. Di Rezze<sup>2</sup>, B. Ross<sup>3</sup>, H. Hawthorn<sup>1</sup>, N. Galla<sup>1</sup> and T. Allen<sup>1</sup>, (1)University of Central Arkansas, Conway, AR, (2)McMaster University, Hamilton, ON, Canada, (3)Communication Sciences and Disorders, University of Houston, Houston, TX

***Future IMFAR Annual Meeting Dates***

**2013**

**San Sebastian, Spain**

**May 2-4, 2013**

**2014**

**Atlanta, Georgia, USA**

**May 15-17, 2014**

**2015**

**Salt Lake City, Utah, USA**

**May 14-16, 2015**

1:30-3:30P	<b>IES – Grand Ballroom Centre</b> Rethinking Interventions and Implementation Strategies for Under-Resourced Areas		
1:30-3:30P	<b>IES – Dominion Ballroom</b> Methodologic Challenges in Risk Factor Epidemiology: Advancing the State of Research		
1:30-3:30P	<b>Oral Session – Grand Ballroom East</b> Brain Imaging: fMRI Social Cognition and Emotion Perception	<b>Oral Session – Grand Ballroom West Services</b>	<b>Oral Session – Osgoode Ballroom East Genetics II</b>
3:30-4:30P	<b>Session: Data Management for Autism Research – Grand Ballroom West</b>		

**Invited Educational Symposium**  
**162 - Rethinking Interventions and Implementation Strategies for Under-Resourced Areas**

1:30 PM - 3:30 PM - Grand Ballroom Centre

*Session Chairs: C. Kasari<sup>1</sup>, D. S. Mandell<sup>2</sup>; (1)UCLA, (2)University of Pennsylvania School of Medicine*

A growing body of research provides exciting evidence for the efficacy of both targeted and comprehensive interventions for children with autism. Relatively few of these interventions have made their way into community practice, however, and when they do, outcomes rarely approximate what is observed in university-based research settings. This implementation challenge is exacerbated among many underserved communities, for whom “research” is a loaded term. Translation of research findings into community settings is particularly difficult in school settings, in which educators and administrators may doubt the applicability of research practices to the unique aspects of settings or system resources. To overcome such barriers, having a dialogue with schools, parents, and community members around best practices is essential for the next phase of “translation” of research on behavioral treatments for individuals with ASD. This dialogue is especially important for communities that are most likely to struggle to provide access to services, with lesser capacity to implement evidence based practice, especially involving individuals under-represented in most extant ASD intervention studies. This symposium will address these issues and present a series of innovative studies with the overarching goal of enriching intervention research with concepts and strategies from implementation science.

- 1:30 162.001 Parent Mediated Interventions: What Works, What Doesn't?. C. E. Lord<sup>1</sup>, Institute for Brain Development, Weill Cornell Medical College, White Plains, NY
- 2:00 162.002 Interventions for Social Impairment at School: Rethinking Implementation. J. J. Locke<sup>1</sup>, Center for Mental Health Policy and Services Research, University of Pennsylvania, Philadelphia, PA
- 2:30 162.003 Implementation Strategies In Schools: What We Have Learned From Teachers. A. C. Stahmer<sup>1,2</sup>, J. Suhrheinrich<sup>1,2</sup>, S. R. Reed<sup>1,2</sup> and L. Schreibman<sup>2</sup>, (1)Rady Children's Hospital, San Diego, CA, (2)University of California, San Diego, La Jolla, CA
- 3:00 162.004 Lessons From the Field: How Challenges From Effectiveness and Implementation Trials Can Inform Intervention and Study Design. D. S. Mandell<sup>1</sup>, Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA

**Invited Educational Symposium**  
**163 - Methodologic Challenges in Risk Factor Epidemiology: Advancing the State of Research**

1:30 PM - 3:30 PM - Dominion Ballroom

*Session Chair: B. K. Lee; Drexel University School of Public Health*

In recent years, epidemiologic studies have implicated a number of potential prenatal and perinatal risk factors in the etiology of autism. Unfortunately, challenges inherent in observational risk factor study designs, such as confounding, measurement error, and selection bias, can limit causal inference from epidemiologic studies of autism etiology. In this educational symposium, speakers will review the state of epidemiology research regarding four different prenatal risk factor domains noting the major methodological challenges specific to each domain and highlighting at least one specific technique that can be used to overcome these challenges.

- 1:30 163.001 Parental Age. C. J. Newschaffer<sup>1</sup>, Drexel University School of Public Health, Philadelphia, PA
- 2:00 163.002 Perinatal and Neonatal Risk Factors for Autism: Lessons and Challenges of Meta-Analysis. S. L. Buka<sup>1</sup>, Department of Epidemiology, Brown University, Providence, RI
- 2:30 163.003 Environmental Pollutants. I. Burstyn<sup>1</sup>, Drexel University School of Public Health, Philadelphia, PA
- 3:00 163.004 Maternal Prescription Drug Use. L. A. Croen<sup>1</sup>, Kaiser Permanente Division of Research, Oakland, CA

**Oral Sessions**  
**164 - Brain Imaging: fMRI Social Cognition and Emotion Perception**

1:30 PM - 3:30 PM - Grand Ballroom East

- 1:30 164.001 Brain Responses to Anthropomorphism and Perception of Actions in Autism. C. Doss<sup>1</sup>, L. Libero, D. Bala, M. Bellare and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL
- 1:45 164.002 Diminished Superior Temporal Sulcus Response to Communicative Intent in Children with ASD. A. Martin<sup>1</sup>, A. C. Voos<sup>2</sup>, A. Vouloumanos<sup>3</sup>, K. A. Pelphrey<sup>2</sup> and M. D. Kaiser<sup>2</sup>, (1)Psychology, Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)New York University, New York, NY

- 2:00 164.003 Lack of Neural Specialization for Speech in Children with Autism Spectrum Disorder. R. H. Bennett<sup>1</sup>, S. Shultz<sup>2</sup> and K. A. Pelphrey<sup>3</sup>, (1)Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Yale Child Study Center, Yale University School of Medicine, New Haven, CT
- 2:15 164.004 Disrupted Neural Response to Affective Touch in ASD. M. D. Kaiser<sup>1</sup>, A. C. Voos<sup>1</sup>, R. H. Bennett<sup>1</sup>, I. Gordon<sup>1</sup>, F. McGlone<sup>2</sup> and K. A. Pelphrey<sup>1</sup>, (1)Child Study Center, Yale University, New Haven, CT, (2)Liverpool John Moores University, Liverpool, United Kingdom
- 2:30 164.005 Lack of Embodiment of Action Words in the Autistic Brain. R. L. Moseley<sup>1</sup>, B. Mohr<sup>1,2,3</sup>, A. K. Ludlow<sup>2</sup>, M. V. Lombardo<sup>4</sup>, S. Baron-Cohen<sup>4</sup> and F. Pulvermüller<sup>1,3</sup>, (1)MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom, (2)Anglia Ruskin University, Cambridge, United Kingdom, (3)Free University of Berlin, Berlin, Germany, (4)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom
- 2:45 164.006 fMRI of Emotion Regulation in Autism. G. S. Dichter<sup>1</sup>, J. A. Richey<sup>2</sup>, C. Damiano<sup>1</sup>, M. Smoski<sup>3</sup>, N. J. Sasson<sup>4</sup>, E. Hanna<sup>5</sup>, A. Sabatino<sup>6</sup> and J. W. Bodfish<sup>1</sup>, (1)University of North Carolina, Chapel Hill, NC, (2)Psychology, Virginia Tech, Blacksburg, VA, (3)Psychiatry, Duke University Medical Center, Durham, NC, (4)University of Texas at Dallas, Richardson, TX, (5)UNC, Chapel Hill, NC, (6)University of North Carolina, Chapel Hill, NC
- 3:00 164.007 Oxytocin Receptor Gene (OXTR) Impacts Salience Network Connectivity in Children With and Without ASD. L. Hernandez<sup>1,2</sup>, J. D. Rudie<sup>1,3</sup>, D. Beck-Pancer<sup>1,2</sup>, E. M. Kilroy<sup>1</sup>, D. H. Geschwind<sup>3,4</sup>, S. Y. Bookheimer<sup>2,3</sup> and M. Dapretto<sup>1,2,3</sup>, (1)Brain Mapping Center, University of California, Los Angeles, CA, (2)Department of Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, CA, (3)Interdepartmental Neuroscience Program, University of California, Los Angeles, CA, (4)Department of Neurology, University of California, Los Angeles, CA
- 3:15 164.008 Oxytocin's Impact on Social Cognitive Brain Function in Youth with ASD. I. Gordon<sup>1</sup>, R. H. Bennett<sup>2</sup>, B. C. Vander Wyk<sup>3</sup>, J. F. Leckman<sup>2</sup>, R. Feldman<sup>4</sup> and K. A. Pelphrey<sup>2</sup>, (1)Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Yale Child Study Center, New Haven, CT, (4)The Gonda Brain Center, Bar-Ilan University, Ramat Gan, Israel

**Oral Sessions**

**165 - Services**

1:30 PM - 3:30 PM - Grand Ballroom West

- 1:30 165.001 Diagnostic and Health Care Experiences of Children with Autism Spectrum Disorder, Intellectual Disability, or Developmental Delay: An Introduction to New Nationally Representative Survey Data. R. M. Avila<sup>1</sup>, S. J. Blumberg<sup>1</sup>, L. J. Colpe<sup>2</sup> and B. Pringle<sup>2</sup>, (1)Division of Health Interview Statistics, The CDC's National Center for Health Statistics, Hyattsville, MD, (2)Division of Services and Intervention Research, National Institute of Mental Health, Bethesda, MD
- 1:45 165.002 A Survey of the Use of Health Services by Children with Autism Spectrum Disorders in Israel. R. Raz<sup>1</sup>, L. Lerner-Geva<sup>1,2</sup>, O. Leon<sup>3</sup>, G. Chodick<sup>1,4</sup> and L. Gabis<sup>3,5</sup>, (1)School of Public Health, Tel Aviv University, Tel Aviv, Israel, (2)The Women and Children Health Research Unit, The Gertner Institute, Tel-Hashomer, Israel, (3)Weinberg Child Development Center, Sheba Medical Center, Tel-Hashomer, Israel, (4)Maccabi Healthcare Services, Tel Aviv, Israel, (5)Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel
- 2:00 165.003 Transition to Secondary Education: Impact on Children with An Autism Spectrum Disorder. C. Willis<sup>1</sup>, O. Baykaner<sup>2</sup>, S. Staunton<sup>3</sup>, D. H. Skuse<sup>4</sup> and W. P. Mandy<sup>5</sup>, (1)Great Ormond Street Hospital, London, United Kingdom, (2)Behavioral & Brain Sciences Unit, Institute of Child Health, London, United Kingdom, (3)Social Communication Disorders Clinic, Great Ormond Street Hospital, London, United Kingdom, (4)Institute of Child Health, London, United Kingdom, (5)University College, London, United Kingdom
- 2:15 165.004 Risk and Protective Factors for Bullying and Victimization Among Students with Autism Spectrum Disorders. N. Humphrey<sup>1</sup> and J. S. Hebron, Educational Support and Inclusion, University of Manchester, Manchester, United Kingdom
- 2:30 165.005 A Randomized Controlled Study of Face to Face and Web-based COMPASS Consultation. L. A. Ruble<sup>1</sup>, J. H. McGrew<sup>2</sup> and M. D. Toland<sup>1</sup>, (1)University of Kentucky, Lexington, KY, (2)Indiana University - Purdue University, Indianapolis, IN
- 2:45 165.006 Predictors of Outcomes of Preschool Aged Children Enrolled in An Early Intervention Trial. K. Williams<sup>1</sup>, M. Carter<sup>2</sup>, T. Clark<sup>3</sup>, D. Evans<sup>4</sup>, T. Parmenter<sup>4</sup>, N. Silove<sup>5</sup> and J. Roberts<sup>6</sup>, (1)University of Melbourne and Royal Children's Hospital, Melbourne, Australia, (2)Macquarie University, Sydney, Australia, (3)Autism Spectrum Australia, Sydney, Australia, (4)University of Sydney, Sydney, Australia, (5)Children's Hospital at Westmead, Sydney, Australia, (6)Griffith University, Brisbane, Australia



- 3:00 ▶ **165.007** Empowering Latino Families of Children with ASD: A Psycho-Educational Intervention. S. Magana<sup>1</sup>, R. Paradiso de Sayu<sup>1</sup> and W. Machalicek<sup>2</sup>, (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)Special Education, University of Oregon, Eugene, OR
- 3:15 ▶ **165.008** An Online Survey of Early Signs, Diagnosis and Intervention for Children with Autism in China. X. Qian<sup>1</sup>, University of Minnesota, Minneapolis, MN

**Oral Sessions**

**166 - Genetics II**

1:30 PM - 3:30 PM - Osgoode Ballroom East

- 1:30 **166.001** Genome-Wide SNP and Environment Interaction Study in Autism. C. Ladd-Acosta<sup>1</sup>, B. K. Lee<sup>2</sup>, J. Bonner<sup>3</sup>, B. Sheppard<sup>1</sup>, N. B. Gidaya<sup>2</sup>, A. M. Reynolds<sup>4</sup>, L. A. Croen<sup>5</sup>, D. E. Schendel<sup>6</sup>, C. J. Newschaffer<sup>2</sup> and M. D. Fallin<sup>1</sup>, (1)Johns Hopkins School of Public Health, Baltimore, MD, (2)Drexel University School of Public Health, Philadelphia, PA, (3)Michigan State University, E. Lansing, MI, (4)University of Colorado Denver, Aurora, CO, (5)Kaiser Permanente Division of Research, Oakland, CA, (6)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA
- 1:45 **166.002** Clinical Application of 2.7M SNP Array for CNV Detection in Subjects with Idiopathic Autism and/or Intellectual Disability. Y. Qiao<sup>1,2</sup>, C. Tyson<sup>3</sup>, M. A. Hrynychak<sup>3</sup>, E. Lopez-Rangel<sup>1</sup>, J. Hildebrand<sup>1</sup>, S. Martell<sup>2</sup>, C. Fawcett<sup>3</sup>, L. Kaspara<sup>1</sup>, K. Calli<sup>2,4</sup>, X. Liu<sup>5</sup>, J. J. A. Holden<sup>6</sup>, E. Rajcan-Separovic<sup>2</sup> and S. M. E. Lewis<sup>1</sup>, (1)Medical Genetics, University of British Columbia, Vancouver, BC, Canada, (2)Pathology, University of British Columbia, Vancouver, BC, Canada, (3)Royal Columbian Hospital, New Westminster, BC, Canada, (4)Medical Genetics, University of British Columbia, Vancouver, BC, Canada, (5)Psychiatry, Queen's University, Kingston, ON, Canada, (6)Psychiatry & Physiology, Queen's University, Kingston, ON, Canada
- 2:00 **166.003** Genomic Landscape of Autism Spectrum Disorders. S. R. Wadhawan<sup>1</sup>, X. Ji<sup>1</sup>, K. J. Won<sup>1</sup>, C. F. Lin<sup>2</sup>, L. S. Wang<sup>2</sup> and M. Bucan<sup>1,2</sup>, (1)Genetics, University of Pennsylvania, Philadelphia, PA, (2)Penn Center for Bioinformatics, University of Pennsylvania, Philadelphia, PA
- 2:15 **166.004** First Genome Wide Association Study (GWAS) for Maternally Acting Gene Alleles Identifies New Candidate Genes in Autism. W. G. Johnson<sup>1</sup>, E. S. Stenroos<sup>1</sup> and S. Buyske<sup>2</sup>, (1)Neurology, UMDNJ-RWJMS, Piscataway, NJ, (2)Department of Statistics, Rutgers University, Piscataway, NJ

- 2:30 **166.005** Follow-up Linkage and Association Analyses of a Nonverbal Motor Speech Phenotype Identified in the AGRE Data Set. A. Hare<sup>1</sup>, M. Azaro<sup>1</sup>, R. Zimmerman<sup>1</sup>, J. Flax<sup>1</sup>, J. Burian<sup>2</sup>, V. Vieland<sup>2</sup> and L. Brzustowicz<sup>1</sup>, (1)Department of Genetics, Rutgers University, Piscataway, NJ, (2)Battelle Center for Mathematical Medicine, The Research Institute at Nationwide Children's Hospital & The Ohio State University, Columbus, OH
- 2:45 **166.006** A Longitudinal Twin Study of the Causal Relationship Between Autistic Traits and Traits Characteristic of ADHD From Middle Childhood to Early Adolescence. M. J. Taylor<sup>1</sup>, T. Charman<sup>2</sup> and A. Ronald<sup>3</sup>, (1)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (2)Centre for Research in Autism and Education, Institute of Education, London, United Kingdom, (3)Birkbeck College, London, United Kingdom
- 3:00 **166.007** Heritability of Proposed DSM-5 Autism Symptom Domains in a Large, Clinically-Ascertained Sample. T. W. Frazier<sup>1</sup>, L. Thompson<sup>2</sup>, P. A. Law<sup>3</sup>, E. A. Youngstrom<sup>4</sup> and N. Morris<sup>5</sup>, (1)Cleveland Clinic, Cleveland, OH, (2)Psychology, Case Western Reserve University, Cleveland, OH, (3)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (4)Psychology, University of North Carolina, Chapel Hill, NC, (5)Case Western Reserve University, Cleveland, OH
- 3:15 **166.008** Characterization of the Function and Regulation of the Autism Susceptibility Candidate 2 (AUTS2) Gene. N. Oksenberg<sup>1</sup>, N. Ahituv<sup>1</sup> and L. A. Weiss<sup>2</sup>, (1)Bioengineering and Therapeutic Sciences, UCSF, San Francisco, CA, (2)UCSF Department of Psychiatry, Institute for Human Genetics, San Francisco, CA

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
<b>A</b>					
Aagten-Murphy, D. Università degli Studi di Firenze	murfs.au@gmail.com	141.130	Ahmed, N. Hope Autism Center	ahmednydr@yahoo.com	119.116
Aaronson, B. University of Washington	ba1@u.washington.edu	112.213, 138.004	Aiello, R. University of Kentucky	rachel.aiello@uky.edu	141.128
Abbeduto, L. MIND Institute University of California, Davis	abbeduto@waisman.wisc.edu	131.081, 159.117, 161.194	Aims, M. Institute of Psychiatry, London; University of Oxford; University of Cambridge, United Kingdom	MRCAIMS@kcl.ac.uk	106.031
Abdallah, M. Aarhus University Faculty of Health Sciences, Rostock University Hospital, Statens Serum Institute	mab@soci.au.dk	104.002, 118.067	AIMS Consortium, M. University of Oxford, University of Cambridge, Institute of Psychiatry	declan.murphy@kcl.ac.uk	152.005
Abduljalil, A. The Ohio State University	abduljalil.1@osu.edu	107.077	Akbar, M. Yale Child Study Center	maysa.akbar@yale.edu	142.183
Abdullah, M. University of California, Irvine	maryam.abdullah@uci.edu	142.213, 159.118	Akechi, H. The University of Tokyo	akechi@darwin.c.u-tokyo.ac.jp	142.211
Abib, R. Federal University of Rio Grande do Sul (UFRGS)	renata.abib@terra.com.br	105.009	Akshoomoff, N. University of California, San Diego	natacha@ucsd.edu	117.002
Abowd, G. D. Georgia Institute of Technology	abowd@cc.gatech.edu	129.009, 129.011, 129.022, 129.029, 140.120	Al Kadhee, N. Gama Dynacare Labs	nkadhee@gmail.com	133.189
Abrams, D. Children's National Medical Center	dabrams@childrensnational.org	107.078, 109.159	Al Mughairy, S. Northeastern University	almughairy.s@husky.neu.edu	108.116
Ackerman, M. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	marilyn.ackerman@yale.edu	140.108	Al Tassan, N. King Faisal Specialist Hospital and Research Center	naltassan@kfshrc.edu.sa	109.142
Ackermann, N. University of Missouri	naanb5@mail.mizzou.edu	118.087	Al Tawil, B. King Faisal Specialist Hospital and Research Center	bassmah-s@hotmail.com	109.142
Adamek, L. Children's Hospital Boston	ladamek@notes.cc.sunysb.edu	133.171	Al-Adawi, S. Sultan Qaboos University	jimbo@omantel.net.om	132.120
Adamo, N. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	adamo.nicolett@gmail.com	106.036, 158.079	Al-Balsha, A. Hamad Medical Corporation	albalsheh@yahoo.com	133.189
Adams, J.	jim.adams@asu.edu	133.183	Al-Fahdi, S. Sultan Qaboos University	ymfarsi@squ.edu.om	133.174
Adamson, L. Georgia State University	ladamson@gsu.edu	117.004	Al-Farsi, A. Sultan Qaboos University	ymfarsi@squ.edu.om	133.174
Adelsberg, S. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	samantha.adelsberg@gmail.com	158.079	Al-Farsi, O. Sultan Qaboos University	ymfarsi@squ.edu.om	108.113, 118.068, 118.069, 133.174, 157.020
Adi, A. King Faisal Specialist Hospital and Research Center	ahmadadi@hotmail.com	109.142	Al-Farsi, Y. Sultan Qaboos University	ymfarsi@squ.edu.om	108.113, 118.068, 118.069, 132.120, 133.174, 157.020, 157.022
Adkins, K. Vanderbilt Medical Center	karen.adkins@vanderbilt.edu	145.004	Al-Khaduri, M. Sultan Qaboos University	m.khaduri@squ.edu.om	108.113, 118.069, 118.068, 132.120, 157.020
Adler, B. Indiana University School of Medicine	baadler@iupui.edu	158.078	Al-Rawi, F. Hamad Medical Corporation	fadilaalrawi@yahoo.com	133.189
Adluru, N. University of Wisconsin	adluru@wisc.edu	107.101	Al-Shafae, M. Sultan Qaboos University	shafae4@omantel.net.om	108.113, 118.068, 118.069
Adolphs, R. California Institute of Technology	radolphs@hss.caltech.edu	107.079	8, 133.174,		157.020
Adolphson Horn, M. The Help Group - UCLA Autism Research Alliance	maile.adolphson@gmail.com	117.050	Al-Shafee, M. Sultan Qaboos University	shafae@squ.edu.om	132.120
Agnew, H. Prometheus Research, LLC	henry@prometheusresearch.com	129.001, 129.003	Al-Sharbati, M. Sultan Qaboos University	marwan@squ.edu.om	108.113, 118.068, 118.069, 132.120, 133.174, 157.020, 157.022
Agnew, J. Children's Hospital Colorado/ The University of Colorado at Denver and Health Sciences Center	john.agnew@colorado.edu	123.213, 133.165, 133.164	Al-Sharbati, Z. Sultan Qaboos University Hospital	zenam@squ.edu.om	132.120
Agosta, G. Hospital Italiano de Buenos Aires	guillermo.agosta@hospitalitaliano.org.ar	109.141	Al-Sulaimani, F. MOH	um-alkhalil@hotmail.com	132.120
Ahituv, N. UCSF	Nadav.Ahituv@ucsf.edu	166.008	Al-Suleimani, S. Sultan Qaboos University	ymfarsi@squ.edu.om	133.174
Ahluwalia, J. Cambridge University Hospitals NHS Foundation Trust	jag.ahluwalia@addenbrookes.nhs.uk	108.117	Alcorn, A. University of Edinburgh	s0932970@sms.ed.ac.uk	129.014, 129.015
Ahmed, A. Yale University	alex.ahmed@yale.edu	106.044	Alderman, C. ASPIRE Research Program, UNC-CH	cheryl_alderman@med.unc.edu	102.001, 133.184
			Alderson-Day, B. The University of Edinburgh	b.d.alderson-day@sms.ed.ac.uk	142.200
			Aldosari, M. King Faisal Specialist Hospital and Research Center	maldosari2008@gmail.com	109.142, 129.028
			Aldridge, K. University of Missouri, Thompson Center for Autism and Neurodevelopmental Disorders	aldridgek@missouri.edu	157.037, 157.038

Abstract #s in bold indicate the presenting author

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Alegbo, R. Institute of Neuroscience, Newcastle University	Rebecca.Alegbo@ntw.nhs.uk	109.160	Amodeo, D. University of Illinois at Chicago	damode2@uic.edu	105.016
Alessandri, M. University of Miami	malessandri@miami.edu	114.005, 119.102, 131.078, 131.080	Amraotkar, A. Western Kentucky University	alok.amraotkar@wku.edu	133.182, 133.203
Alexander, A. National Center on Birth Defects	fgn4@cdc.gov	121.149	Anagnostou, E. Holland Bloorview Kids Rehabilitation Hospital	eanagnostou@hollandbloorview.ca	107.074, 107.076, 107.092, 107.100, 109.143, 140.110, 140.113, 140.114, 158.065
Alexander, A. University of Wisconsin	alalexander2@wisc.edu	107.101, 127.002	Anaki, D. Bar-Ilan University,	anakid@mail.biu.ac.il	138.030
Alexander, K. Ivymount School	kt.c.alexander@gmail.com	131.094	Anckarsater, H. University of Gothenburg	Henrik.Anckarsater@neuro.gu.se	128.002
Alexander, M. Glenrose Rehabilitation Hospital	megan.alexander@albertahealthservices.ca	123.209, 123.210	Anckarsäter, H. University of Gothenburg	henrik.anckarsater@neuro.gu.se	107.081
Alfarsi, Y. Sultan Qaboos University	yfmfarsi@squ.edu.om	108.119, 108.116	Andari, E. Emory University	eandari@gmail.com	106.042
Alferi, I. Hospital de Niños	inesalferi@yahoo.com.ar	121.153	Anderson, C. Kennedy Krieger Institute	andersonco@kennedykrieger.org	118.090, 122.167, 137.003
Ali, A. Sultan Qaboos University	amanat@squ.edu.om	108.113, 157.020, 157.022	Anderson, D. Weill Cornell Medical College	debcarl@umich.edu	133.211, 140.106
Allain, E. University of Houston	euribe01@msn.com	117.060, 122.182, 161.200	Anderson, G. University of Birmingham	g.m.anderson@bham.ac.uk	138.014
Allen, A. Rush University Medical Center	adelaide_allen@rush.edu	161.197	Anderson, J. University of Utah	andersonjeffs@gmail.com	127.002
Allen, K. Eastern Virginia Medical School	allenk@evms.edu	102.002	Anderson, L. Yale University	laura.anderson@yale.edu	106.048
Allen, M. L. Lancaster University	melissa.allen@lancaster.ac.uk	141.157, 142.199	Andrejczuk, M. The Johns Hopkins University School of Medicine	mandrej1@jhmi.edu	139.079, 159.129
Allen, R. The New School for Social Research	aller454@newschool.edu	117.040	Angjellari-Dajci, F. MCG	fjorentina@yahoo.com	122.187
Allen, T. University of Central Arkansas	thadeusallen@hotmail.com	161.208	Ankenman, K. University of Washington	ankenk@u.washington.edu	109.131, 117.039
Allison, C. Autism Research Centre, University of Cambridge	cla29@cam.ac.uk	139.059	Anokhin, A. Washington University School of Medicine	anokhina@wustl.edu	153.004
Allman, M. Johns Hopkins University School of Medicine, Kennedy Krieger Institute	allman@kennedykrieger.org	106.034	Anthony, L. G. Children's National Medical Center	lanthony@cnmc.org	131.094, 141.161, 141.170
Almeida, J. Hospital Pediátrico de Coimbra	joanaalmeida@chc.min-saude.pt	109.155	Antovich, D. University of Washington	anto13@u.washington.edu	157.031
Almuslamani, A. King Faisal Specialist Hospital and Research Center	aalmuslamani@gmail.com	109.142, 129.028	Antshel, K. SUNY Upstate Medical University	antshelk@upstate.edu	139.063
Aloi, J. University of North Carolina	aloi@email.unc.edu	141.131	Aparicio Betancourt, M. University of Illinois	mariana.aparicio.betancourt@gmail.com	132.110
Alshaban, F.	fouad.alshaban@gmail.com	121.141	Araya, R. University of Bristol	r.araya@bristol.ac.uk	128.004
Altgassen, M. Technische Universitaet Dresden	altgassen@psychologie.tu-dresden.de	142.190, 142.191	Archibald, L. M. University of Western Ontario	larchiba@uwo.ca	111.192
Altintas, I. Istanbul University	isilay_altintas@yahoo.com	121.144	Ardjomand-Hessabi, M. The University of Texas Health Science Center at Houston	Manouchehr.ArdjomandHessabi@uth.tmc.edu	118.064
Altomare, A. University of Calgary	alyssa.altomare@gmail.com	139.054, 141.146, 161.205	Arendt, R. The Ohio State University	Robert.Arendt@nationwidechildrens.org	141.166
Alvarez, S. University of Washington	shanna.alvarez@gmail.com	160.150	Argibay, P. Instituto de Ciencias Básicas y Medicina Experimental (ICBME), Hospital Italiano de Buenos Aires	pablo.argibay@hospitalitaliano.org.ar	109.141
Aman, M. The Ohio State University	aman.1@osu.edu	133.178, 133.199, 158.071	Arima, S. University of Rome "La Sapienza"	serena.arima@uniroma1.it	131.075, 131.076
Amaral, D. UC Davis MIND Institute	dgamaral@ucdavis.edu	109.153, 110.170, 134.001, 152.008	Armstrong, K. Simon Fraser University	kimberly_armstrong@sfu.ca	161.178
Amaral, Jr., J. University of Cincinnati	amaraljj@mail.uc.edu	141.152	Armstrong, M. A. Kaiser Permanente Division of Research	MaryAnne.Armstrong@kp.org	128.005
Ambrecht, E. Saint Louis University	armbrees@slu.edu	118.090	Arnao, A. Institute of Clinical Physiology, National Council of Research	antoninoarnao@virgilio.it	129.004
Ameis, S. University of Toronto, The Hospital for Sick Children, University of Toronto	stephameis@gmail.com	107.099	Arneson, C. University of Wisconsin-Madison	clarneso@wisc.edu	121.159, 122.188
Amiet, C. APHP, GHU Pitié-Salpêtrière, IntegraGen SA	claire.amiet@psl.aphp.fr	126.002	Arnold, L. E. Ohio State University	arnold.6@embarqmail.com	133.178, 133.199
Amit Ben-Simhon, H. Child Development Center Maccabi Haifa, University of Haifa	hemdamit@gmail.com	117.009	Arntz, A. Maastricht University	jduijkers@hotmail.com	139.058



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Arriaga, R. Georgia Institute of Technology	arriaga@cc.gatech.edu	129.009, 129.011, 129.029	Bach, C. Central Institute of Mental Health	Christiane.Bach@zi-mannheim.de	106.059
Artibee, K. Vanderbilt Medical Center	k.j.artibee@vanderbilt.edu	145.004	Backes, B. Federal University of Rio Grande do Sul	barbara.edas@gmail.com	159.131, 161.199
Artigas, J. University of Miami	juanartigasatum@gmail.com	161.179	Bader, P. Stanford University, Department of Molecular and Cellular Physiology	plbader@stanford.edu	104.005
Ascherio, A. Harvard School of Public Health	AASCHERI@hsph.harvard.edu	118.073, 122.168	Baeyens, D. Lessius University College	Dieter.Baeyens@lessius.eu	141.129
Asherson, P. Institute of Psychiatry, Kings College London	philip.asherson@kcl.ac.uk	119.107, 122.176, 123.202, 136.005, 158.081	Baggett, K. University of Kansas	kbaggett@ku.edu	132.100
Ashwin, C. University of Cambridge, University of Bath	ca235@cam.ac.uk	112.207	Bahrnick, L. Florida International University	bahrnick@fiu.edu	135.003, 135.004
Ashwin, E. Bath University	ela21@bath.ac.uk	141.151	Bai, S. University of Arkansas for Medical Sciences	bai.66@buckeyemail.osu.edu	110.175
Ashwood, K. Institute of Psychiatry, Kings College London	karen.ashwood@kcl.ac.uk	122.176, 136.005, 158.081	Baig, M. W. SSM Cardinal Glennon Children's Hospital	mirzaw_baig@yahoo.com	118.090
Ashwood, P. University of California, Davis, MIND Institute	pashwood@ucdavis.edu	105.011, 108.126, 118.074, 152.008, 157.045	Bailey, A. University of Oxford, University of British Columbia	anthony.bailey@psych.ox.ac.uk	106.064
Assouline, S. The University of Iowa	susan-assouline@uiowa.edu	160.175	Baird, G. Guy's Hospital	Gillian.Baird@gstt.nhs.uk	154.006
Atance, C. University of Ottawa	atance@uottawa.ca	139.045	Baird, K. McMaster University	bairdka@mcmaster.ca	117.038, 133.205
Attwood, T. Griffith University	tony@tonyattwood.com.au	118.070, 160.145	Bakare, M. Federal Neuro-Psychiatric Hospital, Upper Chime, New Haven, Enugu, Enugu State, Nigeria	mobakare2000@yahoo.com	117.033
Ausderau, K. University of North Carolina	ausderau@med.unc.edu	117.055	Baker, A. University of California, Berkeley	alicebaker77@gmail.com	128.008
Austin, D. Swinburne University of Technology	daustin@swin.edu.au	118.075, 157.029	Baker, B. University of California, Los Angeles	baker@psych.ucla.edu	161.188
Austin, H. University of Colorado Denver	Austin.Harriet@tchden.org	129.008	Baker, C. NIMH, National Institutes of Health	chris.baker@nih.gov	127.004
Austin, J. University of Missouri - Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri School of Medicine	jrahw2@mail.missouri.edu	157.037	Baker, E. La Trobe University	ek_baker@hotmail.com	145.003
Auyeung, B. Autism Research Centre, University of Cambridge	ba251@cam.ac.uk	104.002, 108.117, 109.147	Baker, J. California State University Fullerton	jbaker@waisman.wisc.edu	138.024
Avila, R. The CDC's National Center for Health Statistics	ravila@cdc.gov	165.001	Baker, K. Auburn University	kdb0007@tigermail.auburn.edu	119.098
Avino, T. University of Nevada Reno	thomasavino@gmail.com	110.173	Baker, M. Texas Tech University	mary.baker@ttu.edu	112.198
Aylsworth, A. University of North Carolina	asayls@med.unc.edu	121.149	Bakian, A. University of Utah	amanda.bakian@hsc.utah.edu	121.145, 121.147, 121.159, 142.173
Aylward, E. H. Seattle Children's Research Institute	elizabeth.aylward@seattlechildrens.org	112.206	Bal, E. Children's National Medical Center	ebal@cnmc.org	131.094, 136.007, 139.074
Ayoub, M. Harvard University	mcayoub@fas.harvard.edu	130.032	Bala, D. University of Alabama at Birmingham	dbala@uab.edu	164.001
Ayres, L. Northwestern University	laurenfelice@u.northwestern.edu	117.059	Balsters, J. Trinity College Dublin	balsterj@tcd.ie	127.006
Ayub, Q. Wellcome Trust Genome Campus	qa1@sanger.ac.uk	109.148	Bambini-Junior, V. Federal University of Rio Grande do Sul (UFRGS)	victoriobambini@gmail.com	105.009, 105.010
Azadi, B. Institute of Psychiatry, Kings College London	bahare.azadi@kcl.ac.uk	136.005, 158.081	Bamford, D. Marcus Autism Center & Children's Healthcare of Atlanta	Dana.swartzwelder@choa.org	120.121
Azarbehi, A. Tyndale University	aazarbehi@tyndale.ca	131.049	Bamond, M. Rutgers University	merryjoy44@yahoo.com	140.109
Azaro, M. Rutgers University	Azaro@biology.rutgers.edu	166.005	Banaschewski, T. Central Institute of Mental Health	Tobias.Banaschewski@zi-mannheim.de	106.059
Azimi, K. Centre for Addiction and Mental Health, University of Toronto	k.azimi@utoronto.ca	137.004	Banerjee, S. Creating Connections	saonline@gmail.com	121.151, 122.171
Azpiazu, N. Policlinica Gipuzkoa	nerezazpiazu@gmail.com	129.025	Bang, J. McGill University	janet.bang@gmail.com	159.135
<b>B</b>			Bangash, A. Johns Hopkins University	bangash@jhmi.edu	105.005
Babikian, T. UCLA	tbabikian@mednet.ucla.edu	131.095	Bangera, N. MIND Research Network	nbangera@mm.org	157.052
Babineau, B. National Institute of Mental Health	babineau@mail.nih.gov	105.003			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Baranek, G. University of North Carolina at Chapel Hill	grace_baranek@med.unc.edu	102.008, 117.055, 123.194, 132.125, 132.114, 161.185	Battaglia, D. CUNY Graduate Center	danamon@msn.com	142.185
Barbaro, J. Olga Tension Autism Research Centre, La Trobe University	j.barbaro@latrobe.edu.au	155.004	Batty, M. INSERM U930	magali.batty@univ-tours.fr	107.076, 111.191, 112.211
Barber, A. University of Alabama - ASD Clinic	abarber@bama.ua.edu	116.002, 139.043	Bauer, J. Paracelsus Medical University	jo.bauer@salk.at	108.118
Barber, A. Kennedy Krieger Institute, Johns Hopkins School of Medicine	barbera@kennedykrieger.org	106.040	Bauman, M. Lurie Center/ LADDERS	drb@ladders.org	105.014, 110.174, 140.084
Barger, B. University of Georgia	bbarger@uga.edu	122.169, 157.041	Bauman, M. UC Davis MIND Institute	mdbauman@ucdavis.edu	152.008
Barnes, G. Vanderbilt	gregory.barnes@vanderbilt.edu	112.202	Bauminger-Zvieli, N. Bar Ilan University	Nirit.bauminger@biu.ac.il	101.001
Barnes, J. Children's Hospital Colorado	julia.barnes@childrenscolorado.org	123.213	Bavin, E. La Trobe University	ebavin@latrobe.edu.au	142.194
Baron-Cohen, S. Autism Research Centre, University of Cambridge	sb205@cam.ac.uk	104.002, 106.052, 107.103, 107.086, 107.068, 108.117, 109.147, 112.207, 127.004, 139.059, 140.096, 142.172, 152.005, 152.004, 164.005	Baykaner, O. UCL	o.baykaner@ucl.ac.uk	131.064, 140.105, 165.003
Barone, A. Richmond University Medical Center	abarone@rumcsi.org	130.035	Bayliss, D. University of Western Australia	donna.bayliss@uwa.edu.au	139.037
Baroni, E. University of Maine	elizabeth.baroni@childrens.harvard.edu	117.037	Beamish, W. Griffith University	w.beamish@griffith.edu.au	132.106
Barrett, N. National Health Service	Nadia.Barrett@slam.nhs.uk	127.008	Bear, M. HHMI and MIT	mbear@mit.edu	133.176
Barrie, D. University of Windsor	barried@uwindsor.ca	123.193, 132.124	Bearden, C. University of California, Los Angeles	cbearden@mednet.ucla.edu	139.063
Barry, R. Brown Center for the Study of Children at Risk	rbarry@wihri.org	130.038	Bearman, P. Columbia University	psb17@columbia.edu	118.076, 121.146
Barthelemy, C. INSERM U930	catherine.barthelemy@chu-tours.fr	112.211, 132.145, 142.175	Beauchaine, T. Washington State University	ted.beauchaine@wsu.edu	112.203
Bartlett, C. The Research Institute at Nationwide Children's Hospital & The Ohio State University	Christopher.Bartlett@nationwidechildrens.org	117.046	Bebko, J. M. York University	jbebko@yorku.ca	117.018, 123.212, 141.125, 141.126 142.181
Barton, M. University of Connecticut	mlbarton13@gmail.com	116.005, 117.017, 117.036, 136.008, 141.137, 159.116	Beck-Pancer, D. University of California, Los Angeles	devpancer@gmail.com	107.082, 146.004, 164.007
Bartfeld, P. Laboratorio de Neurociencia Integrativa, Physics Department	cabalangofeld@gmail.com	106.035	Bedford, R. Institute of Education	r.bedford@ioe.ac.uk	138.007
Barua, M. Action for Autism, National Centre for Autism	merry.barua@gmail.com	121.151, 122.171, 122.178	Beecham, J. London School of Economics and Political Science	J.Beecham@lse.ac.uk	119.107, 123.202
Baruth, J. University of Louisville	jmbaru01@louisville.edu	112.210, 133.185	Begeer, S. VU University	S.Begeer@psy.vu.nl	160.156, 161.187
BASIS team Centre for Brain and Cognitive Development, Birkbeck	basis@bbk.ac.uk	111.194, 138.007	Behn, A. The Johnson Center for Child Health and Development	abehn@johnson-center.org	119.097
Bastian, A. Johns Hopkins School of Medicine, Kennedy Krieger Institute	bastian@kennedykrieger.org	142.205	Behr, G. Federal University of Rio Grande do Sul (UFRGS)	guiwehr@gmail.com	105.010
Basu, J. University of Calcutta	BasuMJT@gmail.com	122.179, 139.061	Behseta, B. National Institutes of Health	babak.behseta@gmail.com	107.096
Basu, S. University of Calcutta	sbasu29@gmail.com	122.179, 139.061	Bejerot, S. Karolinska Institutet	susanne.bejerot@sil.se	117.012, 117.025
Basu, S. MindSpec Inc.	sharmila@mindspec.org	109.139, 109.140	Bekele, E. Vanderbilt University, Vanderbilt University	esubalew.t.bekele@vanderbilt.edu	129.018
Basurco, A. Policlinica Gipuzkoa	aaanuski@hotmail.com	129.025	Belardi, K. University of North Carolina at Chapel Hill	katiebelardi@gmail.com	132.114
Basuta, K. University of California, Davis, MIND Institute	kkbasuta@ucdavis.edu	108.126	Belkin, M. The Ohio State University	mbelkin@cse.ohio-state.edu	112.200
Batassini, C. Federal University of Rio Grande do Sul (UFRGS)	crisbatassini@gmail.com	105.009	Bell, P. University of North Carolina	paula_bell@unc.edu	121.160
Bates, S. UCLA Semel Institute for Neuroscience & Human Behavior	sbates@mednet.ucla.edu	131.074, 161.193	Bellando, Ph.D, B. University of Arkansas for Medical Sciences	bellandojayne@uams.edu	160.151
			Bellando, J. University of Arkansas for Medical Sciences	bellandojayne@uams.edu	137.006, 141.135
			Bellare, M. University of Alabama at Birmingham	mbellare@uab.edu	164.001
			Belli, S. F. Hoffmann-La Roche	Sara.Belli@roche.com	108.114
			Belmonte, M. K. National Brain Research Centre	belmonte@mit.edu	122.179, 139.061
			Belz, L. Children's Hospital of Michigan	lbelz2003@yahoo.com	131.044

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Ben Itzhak, E. Ariel University Center of Samaria	benitze@ariel.ac.il	117.024, 122.166	Berry, R. Marcus Autism Center	rashelle.berry@choa.org	157.016, 157.018
Ben-David, E. The Hebrew University of Jerusalem	eyal.bendavid@mail.huji.ac.il	126.005	Berry, R. University of Alberta	rberry@ualberta.ca	133.177
Ben-Sasson, A. University of Haifa	asasson@univ.haifa.ac.il	117.009	Berry-Kravis, E. Rush University Medical Center	Elizabeth_M_Berry-kravis@rush.edu	133.176
Ben-shachar, S. Tel Aviv Sourasky Medical Center	shayb@tasmc.health.gov.il	117.024, 122.166	Berthiaume, C. Hopital Riviere-des-Prairies	claudie.berthiaume.hrdp@ssss.gouv.qc.ca	111.185
Ben-Yosef, D. Bar-Ilan University	dekelbenyosef@gmail.com	138.030	Bertola, D. University Sao Paulo, Biosciences Institute	deborabertola@icr.usp.br	126.004
BenAmor, L. Laval University	Leila_BenAmor@ssss.gouv.qc.ca	140.102	Bertone, A. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), McGill University, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	armando.bertone@gmail.com	115.001, 139.048, 141.132, 141.156, 141.158, 141.159, 141.160
Bender, R. University of Rochester	robin.bender@rochester.edu	154.004	Best, C. A. University of Pittsburgh	cab2354@pitt.edu	139.046
Benevides, T. Thomas Jefferson University	txw131@jefferson.edu	132.115, 153.001	Best, L. Queen's University	laurajocconnell@gmail.com	136.008
Bennaton, E. University of Wisconsin, Milwaukee	ecbennaton@gmail.com	157.049	Bethea, T. University of North Carolina at Chapel Hill, ASPIRE Research Program, UNC-CH	babydocmd@gmail.com	102.001, 133.184
Bennett, A. Children's Hospital of Philadelphia	bennettam@email.chop.edu	157.034, 160.143	Beversdorf, D. Q. University of Missouri	beversdorf@health.missouri.edu	107.077, 118.087, 118.088, 141.169, 157.025, 157.028
Bennett, R. Yale University	randi.bennett@yale.edu	106.048, 164.003, 164.004, 164.008	Bevilacqua, M. UNIFESP	mobe78@yahoo.com.br	138.003
Bennett, T. Offord Centre for Child Studies, McMaster University	bennett@hhsc.ca	103.007, 123.209, 123.210, 135.006	Bharadwaj, H. Massachusetts General Hospital	hari@nmr.mgh.harvard.edu	111.188
Bennetto, L. University of Rochester	bennetto@psych.rochester.edu	106.065, 138.006, 140.116, 154.004	Bhat, A. University of Connecticut	anjana.bhat@uconn.edu	129.017, 132.136, 132.143, 132.152, 140.084, 159.127, 159.133, 161.196
Bentenuto, A. University of Trento	arianna.bentenuto@unitn.it	139.041, 142.188	Bhogal, R. York University	bhogal17@yorku.ca	105.017
Benton, L. Bath University	L.J.Benton@bath.ac.uk	141.151	Biasini, F. University of Alabama at Birmingham	fbiasini@uab.edu	117.013, 117.034, 161.183
Beren, F. Stern College for Women of Yeshiva University	fayberen@gmail.com	109.163	Biemans, B. F. Hoffmann-La Roche	Barbara.Biemans@roche.com	108.114
Beresford, C. The University of Colorado Denver and Health Sciences Center, Children's Hospital Colorado	beresford.carol@tchden.org	123.213	Bigler, E. Brigham Young University, University of Utah	erinb@cortex.byu.edu	127.002
Berg, J. Seattle Pacific University	bergj2@spu.edu	139.073, 142.207	Bilaver, L. Northwestern University	labilave@gmail.com	122.164
Berger, N. Michigan State University	bergerna@msu.edu	160.153	Bilder, D. University of Utah School of Medicine	deborah.bilder@hsc.utah.edu	121.145, 128.007
Berko, E. Albert Einstein College of Medicine	esther.berko@med.einstein.yu.edu	109.163	Bilenberg, N. University of Southern Denmark	niels.bilenberg@psyk.regionsyddanmark.dk	111.177, 158.092
Berkovits, L. University of California, Los Angeles	LBerkovits@ucla.edu	142.189	Billeci, L. Institute of Clinical Physiology, National Council of Research	lucia.billeci@ifc.cnr.it	129.004
Berl, M. Children's National Medical Center	mberl@cnmc.org	158.108	Billstedt, E. Gillberg Neuropsychiatry Centre	eva.billstedt@vgregion.se	155.012
Berman, R. University of California, Davis, MIND Institute	rfberman@ucdavis.edu	105.011	Bingham, E. Vanderbilt University	emelynebingham@mac.com	131.062
Bernal, P. Kaiser Permanente	Pilar.Bernal@kp.org	121.149, 121.150,	Birdwhistell, J. University of Kentucky	Jessie.Bird@uky.edu	120.127
Bernier, R. University of Washington	rab2@u.washington.edu	109.131, 111.193, 111.196, 112.203, 112.213, 112.216, 114.004, 116.008, 117.039, 138.004, 141.142, 153.006, 157.050	Birmingham, E. Simon Fraser University	ebirming@sfu.ca	138.032
Berns, A. The University of Iowa	amanda-berns@uiowa.edu	160.175	Bishop, Ph.D, S. Cincinnati Children's Hospital Medical Center	somer.bishop@cchmc.org	119.111, 154.003, 158.063
Bernstein, R. Vanderbilt University	rebekah.t.bernstein@vanderbilt.edu	131.097	Bishop-Fitzpatrick, L. University of Pittsburgh	lef35@pitt.edu	133.157
Berquist, K. Stanford University School of Medicine/Lucile Packard Children's Hospital	kbe@stanford.edu	102.005	Bissantz, C. F. Hoffmann-La Roche	Caterina.bissantz@roche.com	108.114
Berry, L. Children's Hospital of Philadelphia	berryln@email.chop.edu	107.097, 151.002, 157.034, 160.143	Bittar, R. Precision Neurosurgery	drbittar@precisionneurosurgery.com	106.063
			Bjornson, K. University of Washington	kristie.bjornson@seattlechildrens.org	118.063



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Björnsdotter, M. Yale University	malin.bjornsdotter@neuro.yu.se	127.003	Booker, S. Society for Treatment of Autism	bookers@sta-ab.com	133.188
Blacher, J. University of California, Riverside	jan.blacher@ucr.edu	142.189, 147.001, 161.191	Bookheimer, S. Y. University of California, Los Angeles	sbook@ucla.edu	107.082, 127.005, 146.004, 164.007
Black, L. M. Oregon Health & Science University	lblack@cslu.ogi.edu	117.058, 160.162	Boon, F. University of Western Ontario	fboon@uwo.ca	105.020, 105.024
Black, M. P. Signal Analysis and Interpretation Laboratory (SAIL) University of Southern California	matthepb@usc.edu	129.024	Boone, W. Miami University	boonewj@muohio.edu	133.206
Blacklock, K. York University	kblack@yorku.ca	132.131	Booth, A. Northwestern University	a-booth@northwestern.edu	160.148
Blanc, R. INSERM U930	r.blanc@chu-tours.fr	112.211, 132.145	Booth, R. Guy's and St Thomas' NHS Trust, Institute of Psychiatry	rhonda.booth@kcl.ac.uk	140.118
Blann, L. Children's Specialized Hospital	lblann@childrens-specialized.org	122.172	Borjon, J. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	jbjon@emory.edu	140.107
Blaskey, L. Children's Hospital of Philadelphia	blaskey@email.chop.edu	103.001, 121.149	Bornstein, M. NIHCD	bornstem@mail.nih.gov	139.041, 142.188
Blatt, G. Boston University School of Medicine	gblatt@bu.edu	110.172, 134.002	Bos, D. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	D.J.Bos-2@umcutrecht.nl	107.108
Blomström, Å. Karolinska Institutet	asa.blomstrom@ki.se	118.077	Bosa, C. Federal University of Rio Grande do Sul	cleobosa@uol.com.br	119.117, 159.131, 161.199
Bloom, K. The University of Texas Health Science Center at Houston	Kari.Bloom@uth.tmc.edu	118.064	Bosley, L. The Johns Hopkins University School of Medicine	lvandro1@jhmi.edu	139.079, 159.129, 160.158
Blumberg, S. The CDC's National Center for Health Statistics	swb5@CDC.GOV	165.001	Boswell, K. kennedy krieger institute	boswell@kennedykrieger.org	123.216
Bobermin, L. Federal University of Rio Grande do Sul (UFRGS)	lari_biomed@yahoo.com.br	105.009	Bottema, K. San Francisco State University, UC Berkeley	kbottema1@hotmail.com	131.050
Bodfish, J. W. University of North Carolina	jim.bodfish@cdl.unc.edu	141.131, 164.006	Botteron, K. Washington University School of Medicine	botteronk@mir.wustl.edu	107.089, 107.067, 135.001, 152.001
Bodner, K. E. University of Missouri	kimberly.bodner@mail.mizzou.edu	106.032, 141.169	Boudesteijn, F. Yulius	f.boudesteijn@yulius.nl	131.054
Boehm, J. University of Western Ontario	jboehm4@uwo.ca	111.192	Boudreau, A. Dalhousie University	ainsley.boudreau@dal.ca	139.057
Boerwinkle, E. The University of Texas School of Public Health at Houston	Eric.Boerwinkle@uth.tmc.edu	118.064	Boudreau, E. University of New Brunswick	elyse.boudreau@unb.ca	132.122
Boesch, M. University of Northern Texas	Miriam.Boesch@unt.edu	129.026	Boujanwah, F. A. Georgia Institute of Technology	fatima@gatech.edu	129.029
Bögels, S. University of Amsterdam	S.M.Bogels@uva.nl	131.077	Boussaid, N. University of Monastir	narjespsy@gmail.com	117.045
Bogels, S. University of Amsterdam	s.m.bogels@uva.nl	131.051, 158.070	Boutot, E. A. Texas State University	eb15@txstate.edu	122.174
Boggess, A. Duquesne University	abogges1@gmail.com	157.024	Bouvet, L. Université Pierre Mendes France, Laboratoire de Psychologie et Neurocognition (UMR CNRS 5105)	lucie.bouvet@gmail.com	140.093
Boglio, A. Southwest Autism Research & Resource Center	aboglio@autismcenter.org	131.042	Bowen, C. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine	crystal.bowen@choa.org	131.091, 131.093
Bohnert, K. University of Missouri	kebnv3@mail.mizzou.edu	118.087	Bowler, D. M. City University London	d.m.bowler@city.ac.uk	141.155
Bolling, D. Yale University	danielle.z.bolling@gmail.com	106.048, 106.061	Boyars, M. Chicago Children's Clinic	michalyablong2012@u.northwestern.edu	131.052
Bolourian, Y. UCLA	ybolourian@yahoo.com	131.074, 132.138	Boyce, R. University of California, Davis	rgbboyce@ucdavis.edu	108.125
Bölte, S. Karolinska Institute	Sven.Bolte@ki.se	107.081, 142.191	Boyd, B. University of North Carolina at Chapel Hill	brian_boyd@med.unc.edu	114.005, 132.114, 132.125, 132.137, 161.185
Bolton, P. Institute of Psychiatry	patrick.bolton@kcl.ac.uk	136.005, 140.118, 158.081	Boykin, M. Vanderbilt University	michaela.p.boykin@vanderbilt.edu	131.097
Boman, M. Western Kentucky University	marty.boman@wku.edu	133.182, 133.203	Boyle, M. Offord Centre for Child Studies, McMaster University	boylem@mcmaster.ca	103.007
Bonefeld-Jørgensen, E. Aarhus University Faculty of Health Sciences	ebj@mil.au.dk	118.067	Braadbaart, L. University of Aberdeen	l.braadbaart@abdn.ac.uk	106.060
Bonnen, W. University of Texas Health Science Center Houston	wendy.b.bonnen@uth.tmc.edu	117.053	Bradley, C. University of North Carolina at Chapel Hill	chryse@unc.edu	121.149
Bonner, J. Michigan State University	bonnerj5@msu.edu	121.149, 166.001			
Bonnet-Brilhault, F. INSERM U930	f.bonnet-brilhault@chu-tours.fr	132.145, 142.175			
Bonter, N. Michigan State University	bonterni@msu.edu	132.126			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Bradshaw, C. Johns Hopkins Bloomberg School of Public Health	cbradsha@hsph.edu	122.167	Brown, S. Johns Hopkins School of Public Health	sbrown@hsph.edu	118.078
Bradshaw, J. Department of Counseling, Clinical, & School Psychology, University of California Santa Barbara	jessie.bradshaw@gmail.com	132.153	Brown, S. York University	stbrown@yorku.ca	117.018, 141.125, 141.126
Bradstreet, L. Children's Hospital of Philadelphia	bradstreetl@email.chop.edu	107.097	Brown, W. T. New York State Institute for Basic Research in Developmental Disabilities	wtbibr@aol.com	108.111, 108.120, 110.169
Brammer, M. King's College London, Institute of Psychiatry	michael.j.brammer@kcl.ac.uk	106.031	Browne, A. Children's Hospital of Philadelphia	brownea@email.chop.edu	106.053
Brandeis, D. Central Institute of Mental Health	Daniel.Brandeis@zi-mannheim.de	106.059	Brugha, T. University of Leicester	tsb@le.ac.uk	155.001
Braunschweig, D. University of California, Davis	dnau@ucdavis.edu	108.122, 152.008	Bryson, S. E. Dalhousie University/ IWK Health Centre	Susan.Bryson@iwk.nshealth.ca	103.007, 114.006, 117.038, 123.209, 123.210, 132.150, 132.156, 135.006, 136.001, 137.001, 139.044, 139.057, 140.085, 141.138, 142.176, 157.039, 158.101, 161.177
Bravaccio, C. Dept. of Pediatrics, Univ. 'Federico II'	carmela.bravaccio@unina.it	157.040	Brzustowicz, L. Rutgers University	Brzustowicz@biology.rutgers.edu	117.046, 166.005
Breitenbach-Koller, L. Paris-Lodron University	hannelore.koller@sbg.ac.at	108.118	Buard, I. University of Colorado-Anschutz Medical Campus School of Medicine	Isabelle.Buard@ucdenver.edu	107.073
Brennan, L. University of Connecticut	laura.brennan@uconn.edu	116.005	Bucan, M. University of Pennsylvania	bucan@pobox.upenn.edu	166.003
Bresnahan, M. The Mailman School of Public Health, Columbia University	mab29@columbia.edu	154.002	Buckley, A. National Institute of Mental Health	buckleya@mail.nih.gov	112.212
Bressler, J. The University of Texas School of Public Health at Houston	Jan.Bressler@uth.tmc.edu	118.064	Buckley-Reen, A. For Kids OT, PC	forkidsot@aol.com	133.172
Brewton, C. M. University of Houston	brewton@bcm.edu	117.060, 122.182, 131.090, 142.174, 161.200	Buitelaar, J. Radboud University, Karakter Child and Adolescent Psychiatry University Centre	J.Buitelaar@psy.umcn.nl	148.003, 159.130
Brezis, R. University of Chicago	brezisrs@uchicago.edu	106.045	Buja, A. The Wharton School University of Pennsylvania	buja.at.wharton@gmail.com	158.063
Brian, J. Bloorview Research Institute, Hospital for Sick Children	jbrian@rogers.com	132.150, 138.021, 139.057, 142.176, 157.039	Buka, S. Brown University	Stephen_Buka@brown.edu	163.002
Briemaier, J. NIMH/NIH	briemaierjm@mail.nih.gov	104.006	Bukelis, I. University of Alabama at Birmingham	Bukelis@gmail.com	161.183
Brigham, Ph.D, N. Vanderbilt University Medical Center	nicolette.brigham@vanderbilt.edu	131.097	Bullmore, E. Brain Mapping Unit, University of Cambridge	etb23@cam.ac.uk	106.052, 107.068, 152.005
Brock, J. Macquarie University	jon.brock@mq.edu.au	107.070, 111.186, 138.008	Burack, J. A. McGill University, Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	jake.burack@mcgill.ca	141.159, 141.160, 141.164
Brockman, S. Marquette University	scott.brockman@marquette.edu	112.204, 131.065, 131.046	Burian, J. The Research Institute at Nationwide Children's Hospital & The Ohio State University	John.Burian@nationwidechildrens.org	166.005
Brolese, G. Federal University of Rio Grande do Sul (UFRGS)	jobrolese@gmail.com	105.009	Burke, J. Optum Insight	james.burke@optum.com	121.161
Broly, M. Harvard Medical School, Dana-Farber Cancer Institute	martinbroly@yahoo.fr	109.166, 126.006	Burke, L. The Redpath Centre	lillian.burke@redpathcentre.ca	160.171
Brooks, B. Georgia State University	bbrooks11@student.gsu.edu	161.192	Burko, J. Children's Hospital Boston	jordan.burko@childrens.harvard.edu	116.008, 117.044, 157.050
Brooks, E. Simons Foundation, University of Michigan Autism & Communication Disorders Center	ebrooks@simonsfoundation.org	117.014, 155.008	Burnette, C. P. University of New Mexico	courtney.burnette@vanderbilt.edu	140.103
Brooks, W. The Ohio State University Nisonger Center	whitney.brooks@osumc.edu	117.027	Burnham Riosa, P. The Hospital for Sick Children	priscilla.burnhamriosa@sickkids.ca	123.214
Brosnan, Ph.D, M. University of Bath	m.j.brosnan@bath.ac.uk	141.151	Burstyn, Ph.D, I. Drexel University School of Public Health	ib68@drexel.edu	118.080, 118.071, 118.077, 163.003
Brown, A. S. NYSP	asb11@columbia.edu	128.003	Bush, J. Children's Hospital of Philadelphia	bushj@email.chop.edu	138.005, 139.055
Brown, C. University of Alberta	cary.brown@ualberta.ca	133.177	Butcher, D. The Hospital for Sick Children	darci.butcher@sickkids.ca	109.157, 109.143
Brown, H. The University of Western Ontario	hlade@uwo.ca	111.192, 120.125	Butler, S. Weill Cornell Medical College	sab2047@med.cornell.edu	140.106
Brown, J. University of California, Los Angeles	jbrown81@gmail.com	146.004			
Brown, L. T. University of North Carolina at Chapel Hill	lauren_turner@med.unc.edu	102.008			
Brown, M. University of Colorado Denver, Anschutz Medical Campus	Mark.Brown@ucdenver.edu	107.110			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Butorina, A. MEG Center, Moscow State University of Psychology and Education	armature@yandex.ru	107.072	Campbell, D. Yale University School of Medicine	daniel.campbell@yale.edu	117.015, 128.006, 144.001, 144.002, 144.003, 144.004, 141.123, 160.159
Butter, E. Nationwide Children's Hospital	eric.butter@nationwidechildrens.org	117.027, 141.166	Campbell, D. allAbilitiesFitness	allabilitiesfitness@gmail.com	133.169
Buxbaum, J. Mount Sinai School of Medicine	joseph.buxbaum@mssm.edu	103.008, 105.006	Campbell, J. University of Georgia	jmcpbll@uga.edu	122.169, 157.041
Buyske, S. Rutgers University	buyske@stat.rutgers.edu	117.046, 166.004	Campbell, K. University of California, San Diego	kathleendcampbell@gmail.com	107.084, 152.002
Byrd, M. Vanderbilt	madeleine.byrd@vanderbilt.edu	112.202	Canese, R. Istituto Superiore di Sanità	canese@yahoo.it	133.192
Bytautas, J. University of Toronto	jessica.bytautas@utoronto.ca	123.192	Canitano, R. University Hospital of Siena	r.canitano@ao-siena.toscana.it	155.002
<b>C</b>			Cannon, L. Ivymount School	lcannon@ivymount.org	131.094
Cable, G. Children's Specialized Hospital	gcable@childrens-specialized.org	128.001	Cao, F. NY State Institute for Basic Research in Developmental Disabilities	caofujiang@gmail.com	110.169
Caccamo, L. Children's Hospital Boston	laura.caccamo@childrens.harvard.edu	117.044	Capirci, O. Institute of Cognitive Sciences and Technologies (ISTC), CNR	olga.capirci@istc.cnr.it	139.049
Cadman, T. Institute of Psychiatry, King's College London	tim.cadman@kcl.ac.uk	119.107, 123.202	Caplan, B. University of California, Los Angeles	bcap@ucla.edu	161.188
Café, C. Hospital Pediátrico de Coimbra	catiacafe@yahoo.com	109.155	Cappadocia, M. C. York University	catcap@yorku.ca	158.105
Caffo, B. Johns Hopkins School of Public Health	bcaffo@gmail.com	106.033, 106.040	Caravella, K. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine	kelly.caravella@choa.org	136.003
Cai, C. University of California Los Angeles	caichaochao@gmail.com	109.150	Carayol, J. IntegraGen SA	jerome.carayol@integragen.com	126.002
Cai, R. Y. La Trobe University	r.cai@latrobe.edu.au	120.133	Carbone, P. University of Utah School of Medicine	paul.carbone@hsc.utah.edu	121.145
Cain, D. University of Western Ontario	cain@uwo.ca	105.024	Cardon, T.	teresa.cardon@wsu.edu	132.101
Cairney, J. Offord Centre for Child Studies, McMaster University	cairnej@mcmaster.ca	116.001	Careaga, M. University of California, Davis, MIND Institute	mcareaga@ucdavis.edu	105.011, 108.126
Cajal, A. Instituto de Ciencias Básicas y Medicina Experimental (ICBME), Hospital Italiano de Buenos Aires	andrea.cajal@hospitalitaliano.org.ar	109.141	Cariello, A. University of Utah	annahir.cariello@gmail.com	127.002
Calder, A. MRC Cognition and Brain Sciences Unit	andy.calder@mrc-cbu.cam.ac.uk	107.068, 112.207	Carlson, C. The University of Texas	carlson@psy.utexas.edu	158.100
Calder, L. Haringey Council	Lynsey.Calder@haringey.gov.uk	139.056	Carmody, D. Robert Wood Johnson Medical School - UMDNJ	carmoddp@umdnj.edu	106.054
Call, N. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine	nathan.call@choa.org	131.082, 131.092, 133.193, 133.195, 133.196, 133.198, 158.086	Carpenter, L. Medical University of South Carolina	carpentl@musc.edu	114.002, 118.089, 121.159, 122.177
Callahan, E. State University of N.Y. at Binghamton	ehuber1@binghamton.edu	123.196, 123.198	Carpenter, P. Avon and Wiltshire Partnership NHS Mental Health Trust	peter.carpenter@nhs.net	128.004
Calli, K. University of British Columbia	kcalli@mail.ubc.ca	166.002	Carpenter, R. Seaside Therapeutics	rcarpenter@seasidetherapeutics.com	133.176
Calvar, J. FLENI	jorcalvar@gmail.com	106.035	Carr, K. University of Connecticut	katelin.carr@gmail.com	117.020
Calvo, R. CIBERSAM, Hospital Clínic de Barcelona	rcalvo@clinic.ub.es	107.102, 141.148	Carr, S. Virginia Commonwealth University	secarr@vcu.edu	102.003
Camacho, J. University of California, Davis	jjcamacho@ucdavis.edu	110.171	Carr, T. University of Michigan	tmhcarr@umich.edu	132.109
Camarata, S. Vanderbilt University Medical Center	stephen.camarata@vanderbilt.edu	115.002, 140.104, 141.150, 142.197	Carrington, S. Cardiff University	carringtonsj@cardiff.ac.uk	106.064, 107.109
Cameron, S. University of Florida	stephaniecameron@ufl.edu	105.012	Carroll, H. Children's Hospital Colorado/ The University of Colorado at Denver and Health Sciences Center	boslerheather@hotmail.com	133.164
Camodeca, M. University of Chieti	m.camodeca@unich.it	139.038	Carroll, L. Children's Hospital Westmead	louisac@chw.edu.au	114.001
Campbell, C. McGill University	colin.campbell2@mail.mcgill.ca	141.164	Carter, Ph.D, A. University of Massachusetts Boston	aliceS.carter@umb.edu	119.093, 119.108, 137.001, 158.087
			Carter, C. University of California, San Diego	ccarter@ucsd.edu	109.136, 152.002



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Carter, E. Carnegie Mellon University	ejcarter@gmail.com	106.026, 127.001	Cha, E. University of Connecticut	esther.cha@uconn.edu	161.196
Carter, M. Macquarie University	mark.carter.mq@gmail.com	165.006	Chacin, J. A. La Universidad del Zulia	chacin_jose@hotmail.com	161.202
Carter, R. University at Buffalo	rcarter@buffalo.edu	123.196, 123.198	Chadman, K. New York State Institute for Basic Research in Developmental Disabilities	Kathryn.Chadman@gmail.com	108.120
Cartier-Nelles, B. University of Applied Sciences Western Switzerland	bnelles@orange.fr	131.048	Chakrabarti, B. University of Reading	bc249@cam.ac.uk	106.052, 109.147, 121.151, 122.171, 152.004, 152.005
Cartwright, S. Institute of Psychiatry, Kings College London	s.cartwright@iop.kcl.ac.uk	136.005	Chakravarty, M. Kimel Family Translational Imaging-Genetics Laboratory, Research Imaging Centre, Centre for Addiction and Mental Health	mallar_chakravarty@camh.net	107.091
Caruana, N. Macquarie University	nathan.caruana@mq.edu.au	138.008	Chalfant, A. Annie's Centre	anne.chalfant@anniescentre.com	114.001
Caruso, L. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	laura_caruso_87@hotmail.com	141.159	Challman, T. Geisinger Health System	tdchallman@geisinger.edu	117.035, 126.003, 141.124
Carver, L. J. University of California, San Diego	ljcarver@ucsd.edu	137.001, 157.026	Chamberlain, P. Brigham Young University	paul.chamberlain89@gmail.com	141.168, 159.119
Casagrande, K. Georgia State University	karis.casagrande@gmail.com	161.192	Champagne, N. Fondation Mira	nchampagne@mira.ca	119.094
Casano, F. Center for Pervasive Developmental Disorders, AOB	ceskasan@libero.it	159.125, 161.184	Chan, P. Hospital Authority	cmgfung@hku.hk	107.093
Casanova, M. F. University of Louisville	m0casa02@louisville.edu	107.083, 107.098, 110.168, 111.180, 112.197, 112.210, 133.185, 138.016	Chan, Y. Tsan Yuk Hospital	ykchanc@hku.hk	109.144
Casat, C. D. Carolina NeuroSolutions, LLC	ccasat@comcast.net	133.178	Chance, S. University of Oxford	steven.chance@clneuro.ox.ac.uk	107.095
Cascio, C. Vanderbilt University School of Medicine	carissa.cascio@vanderbilt.edu	127.007, 140.103	Chandler, S. University of California, San Diego	schandler@ucsd.edu	109.136
Cassell, J. Northwestern University	justine@northwestern.edu	161.179	Chandler, S. Institute of Education	s.chandler@ich.ucl.ac.uk	117.016
Castellanos, F. X. Nathan Kline Institute for Psychiatric Research, Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	castef01@nyumc.org	106.036, 154.005, 158.079	Chandra, P. Hamad Medical Corporation	pchandra@hmc.org.qa	133.189
Cataldo, M. Kennedy Krieger Institute, Johns Hopkins University School of Medicine	cataldo@kenedykrieger.org	106.034	Chang, C. Kaohsiung Armed Forces General Hospital	changchenling@gmail.com	117.028, 138.017, 142.204
Catani, M. King's College London	m.catani@kcl.ac.uk	152.004	Chang, J. Yale University	joseph.chang@yale.edu	144.003
Cattelan, C. SUPSI	corinne.cattelan@gmail.com	132.105	Chang, Y. UCLA Semel Institute for Neuroscience & Human Behavior	jchang1231@aol.com	132.119
Causey, M. SynapDx Corporation	mcausey@synapdx.com	109.134	Chantiluke, K. King's College London, Institute of Psychiatry	kaylita.chantiluke@kcl.ac.uk	127.008
Cayless, S. Children's Hospital of Philadelphia	cayless@email.chop.edu	106.027	Charles, J. Medical University of South Carolina	charlesj@musc.edu	114.002, 118.089, 122.177
Cecyre, M. Montreal Children's Hospital	cathambly@gmail.com	159.111	Charles, R. Mount Sinai School of Medicine	rhonda.charles@mssm.edu	105.006
Celano, M. National Institute of Mental Health	mark.celano@yale.edu	139.074	Charlton, M. Royal Children's Hospital and Taralye Oral Language Centre for Deaf Children	charlton@vicnet.net.au	157.053
Celimli, S. University of Miami	scelimli@psy.miami.edu	119.102	Charman, T. Institute of Education	t.charman@ioe.ac.uk	111.194, 117.016, 137.001, 138.007, 139.052, 141.130, 147.004, 148.001, 154.006, 158.082, 166.006
Censi, S. Université de Montréal, Perceptual Neuroscience Laboratory for Autism and Development (PNLab)	sabrina.censi@bell.net	141.160	Chaspari, T. Signal Analysis and Interpretation Laboratory (SAIL), University of Southern California	CHASPARI@USC.EDU	129.024
Ceponiene, R. Center for Research in Language, University of California	rceponiene@ucsd.edu	130.034	Chatterjee, A. Manovikas Kendra Rehabilitation and Research Institute for the Handicapped	anindita65@gmail.com	109.154
Cerban, B. Children's Hospital Boston	bettina.cerban@childrens.harvard.edu	116.008, 157.050	Chau, T. Holland Bloorview Kids Rehabilitation Hospital	tchau@hollandbloorview.ca	158.065
Cermak, S. A. University of Southern California	sharon.cermak@gmail.com	129.019	Chaves, A. E. UNIFESP	ane1976@terra.com.br	138.003

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Chawarska, K. Yale University School of Medicine	katarzyna.chawarska@yale.edu	116.003, 117.015, 119.096, 135.005, 138.031, 139.066, 139.075, 141.123, 144.001, 144.002, 144.003, 144.004, 160.159	Christakou, A. King's College London, Institute of Psychiatry, University of Reading	anastasia.christakou@iop.kcl.ac.uk	106.031
Chawarska, K. Yale University School of Medicine	katarzyna.chawarska@yale.edu	138.001	Christensen, D. Centers for Disease Control and Prevention	dqc3@cdc.gov	118.083
Cheak-Zamora, N. University of Missouri	cheak-zamoran@health.missouri.edu	123.206	Christian, R. University of North Carolina	rob.christian@cidd.unc.edu	123.194
Chechi, T. U.C. Davis MIND Institute	tasleem.chechi@ucdmc.ucdavis.edu	133.173	Christman, C. New York Presbyterian Hospital-Columbia University Medical Center	catherine.christman@gmail.com	118.092
Cheely, C. Medical University of South Carolina	catherine.cheely@gmail.com	114.002	Christodulu, K. University at Albany, SUNY	kvchristodulu@albany.edu	120.119, 133.161, 137.005
Chen, G. Yale University School of Medicine	grace.chen@yale.edu	117.015, 135.005, 141.123	Chu, C. National Chung Cheng University	ChingLin.Chu@gmail.com	132.107, 132.141
Chen, Z. The University of Texas Health Science Center at Houston	Zhongxue.Chen@uth.tmc.edu	118.064	Chu, S. Carnegie Mellon University	suheechu@gmail.com	109.150
Cheng, M. University of Connecticut	michelle.cheng@uconn.edu	142.193, 142.196	Chua, K. W. University of Pittsburgh	kaochua@gmail.com	141.143
Cheng, Y. UCSF	ye.cheng@ucsf.edu	109.137	Chua, S. E. University of Hong Kong	sechua@hkucc.hku.hk	107.093, 107.094
Cherubini, M. Seaside Therapeutics	mcherubini@seasidetx.com	133.176	Chudley, D. University of Manitoba	ahdearman@hsc.mb.ca	117.057
Cheslack-Postava, K. Columbia University	kc2497@columbia.edu	128.003	Chukoskie, L. UCSD	lchukoskie@ucsd.edu	138.019
Chesnutt, C. Texas Tech University	catherine.f.chesnutt@ttu.edu	112.198	Chung, B. The University of Hong Kong	bhychung@hku.hk	109.144
Cheuk, D. Queeh Mary Hospital	cheukld@hkucc.hku.hk	109.144	Chung, W. Columbia University	wkc15@columbia.edu	116.008, 157.050
Cheung, C. University of Hong Kong	charlton@hkusua.hku.hk	107.093, 107.094	Chura, L. Autism Research Centre, University of Cambridge	lrc36@cam.ac.uk	107.068, 107.086, 107.103, 140.096
Chevallier, C. Children's Hospital of Philadelphia	coralie.chevallier@gmail.com	138.005, 139.055, 139.067	Chwilla, D. J. Donders Institute for Brain, Cognition and Behaviour, Centre for Cognition, Radboud University Nijmegen	d.chwilla@hotmail.com	111.183
Chevrier, E. Hôpital Rivière-des-Prairies	e.chevrier.Hrdp@ssss.gouv.qc.ca	111.185	Ciptadi, A. Georgia Institute of Technology	arridhana@gmail.com	140.120
Chez, M. Sutter Neuroscience Institute, Sacramento; UC Davis Medical Center	chezm2@sutterhealth.org	157.043	Clancy, C. Boston University School of Medicine	caitlin.clancy@gmail.com	110.172
Chiang, Ph.D., C. National Chengchi University	chchiang@nccu.edu.tw	132.107, 132.141, 159.126	Clark, B. G. University of Alberta	brenda.clark@capitalhealth.ca	119.110
Chicoine, M. Hôpital Rivière-des-Prairies	marjolaine.chicoine@hotmail.ca	111.185	Clark, C. Institute of Child Health, University College London	cclark@ich.ucl.ac.uk	106.056
Chin, I. University of Connecticut	iris.chin@uconn.edu	142.193	Clark, M. University of Missouri	clarkmj@health.missouri.edu	123.206
Chiocchetti, A. Goethe-University, Paris-Lodron University, German Cancer Research Center (DKFZ)	andreas.chiocchetti@kgu.de	108.118	Clark, S. Marcus Autism Center & Children's Healthcare of Atlanta	seth.clark@choa.org	131.082
Chitayat, D. Mount Sinai Hospital	DChitayat@mtsina.on.ca	123.191	Clark, T. Autism Spectrum Australia	tclark@aspect.org.au	165.006
Chlebowski, C. University of Connecticut	colby.chlebowski@uconn.edu	117.017, 160.168	Clarke, H. Institute of Psychiatry, King's College London	hanna.clarke@kcl.ac.uk	119.107, 123.202
Cho, S. W. Sogang University	swcho@sogang.ac.kr	142.202	Clayden, J. Institute of Child Health, University College London	j.clayden@ucl.ac.uk	106.056
Chodick, G. Maccabi Healthcare Services, Tel Aviv University	hodik_g@mac.org.il	165.002	Clayson, P. Brigham Young University	voltair@gmail.com	112.214, 153.005
Choe, E. Seattle Pacific University	choey@spu.edu	142.206	Clements, C. Massachusetts General Hospital	caitlin.clements@gmail.com	160.159
Choi, J. E. University of California, San Francisco	jaeun.choi@ucsf.edu	117.007, 133.159, 133.186	Clemons, T. EMMES Corp	tclemons@emmes.com	141.135, 145.004
Choi, J. Virginia Tech	jchoi990@gmail.com	131.086	Cleveland, L. A. University of Texas Medical School	Lynne.A.Cleveland@uth.tmc.edu	133.178
Chouairi, R. Floating Hospital for Children	rchouairi@tuftsmedicalcenter.org	160.154	Cleveland, S. Stanford University	cleve@stanford.edu	118.079
Chow, C. University of California, Los Angeles	cchow@mednet.ucla.edu	139.063	Clionsky, L. University of Florida	lclionsky@phpp.ufl.edu	142.174
Christ, S. E. University of Missouri	ChristSE@missouri.edu	106.032, 140.121, 140.122, 141.169, 157.025	Close, H. Johns Hopkins Bloomberg School of Public Health	hclose@jhsph.edu	133.179

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Cockhren, J. Vanderbilt University	jurnell.cockhren@vanderbilt.edu	140.103	Conine, D. Marcus Autism Center & Children's Healthcare of Atlanta	daniel.conine@choa.org	132.121, 133.195
Coelho, J. Instituto Nacional de Saúde Dra Ricardo Joge	joanacoelho21@gmail.com	109.155	Conner, C. Virginia Polytechnic Institute and State University	cconner4@vt.edu	158.060
Coffman, M. Yale Child Study Center	marika.coffman@yale.edu	111.193, 111.195, 112.209, 112.216, 130.036, 153.006, 153.007	Connolly, J. Children's Hospital of Philadelphia	connollyj1@chop.edu	109.161
Coggins, T. University of Washington	tec@uw.edu	160.144	Consortium, P. University of Manchester	kathryn.bourne-4@manchester.ac.uk	142.179, 160.157, 160.167
Coghlan, S. King's College, London	suzanne.coghlan@kcl.ac.uk	122.183, 154.008	Constantino, J. N. Washington University School of Medicine	constantino@wustl.edu	103.003, 117.006, 122.188, 137.001, 148.004, 153.004
Cohen, A. Statens Serum Institute	ACO@ssi.dk	104.002	Conturo, T. Washington University School of Medicine	tconturo@wustl.edu	107.069
Cohen, B. Autism Genetic Resource Exchange	bcohen@agre.org	118.079	Cooke, C. Eastern Virginia Medical School	cookecg@evms.edu	102.002
Cohen, I. L. New York State Institute for Basic Research in Developmental Disabilities	ilcphd@gmail.com	130.035, 140.119	Cooley Hidecker, M. J. University of Central Arkansas	MJCHidecker@uca.edu	161.208
Cohen, M. University of California, Los Angeles, University of California, Los Angeles	msohen@ucla.edu	146.004	Coon, H. University of Utah	hilary.coon@utah.edu	128.007
Cohen, S. University of California, Riverside	shana.cohen@ucr.edu	142.189	Cooper, A. The Johns Hopkins University School of Medicine	acoop23@jhmi.edu	139.079, 159.129
Cohn, J. University of Pittsburgh	jeffcohn+@cs.cmu.edu	161.179	Cooper, E. York University	erin80@yorku.ca	131.058
Coke, C. University School of Nashville	cooke@email.usn.org	131.062	Cooper, J. City University London	j.a.cooper@city.ac.uk	141.155
Colameco, C. Children's Hospital of Philadelphia	colamecoc@email.chop.edu	117.010	Cooper, K. MIND Research Network	kcooper@mm.org	157.052
Colantonio, S. Children's Hospital of Philadelphia	colantonios@email.chop.edu	137.002	Cooperrider, J. University of Utah, University of Utah	jason.cooperrider@hsc.utah.edu	127.002
Colantonio Llambias, M. Hospital de Niños	micll25@hotmail.com	121.153	Corbett, B. Vanderbilt University	Blythe.Corbett@vanderbilt.edu	131.062
Colby, J. University of California, Los Angeles	johncolby@ucla.edu	146.004	Cornew, L. Children's Hospital of Philadelphia	cornewl@email.chop.edu	107.085
Cole, K. University of Missouri School of Medicine	kkp5g5@mail.missouri.edu	157.037	Corominas, R. University of California San Diego	rcorominas@ucsd.edu	109.166, 126.006
Coleman, K. Kaiser Permanente Research and Evaluation	Karen.J.Coleman@kp.org	121.158	Correa, J. McGill University	jcorrea@math.mcgill.ca	158.090
Colich, N. Stanford University	nataliecolich@ucla.edu	127.005	Correia, C. Instituto Nacional de Saúde Dr. Ricardo Jorge, Instituto Gulbenkian de Ciência	ccorreia@igc.gulbenkian.pt	109.155, 126.007
Colli, L. McMaster University	colli1@mcmaster.ca	123.209, 123.210	Corrigan, S. Seattle Children's Research Institute	sarah.corrigan@seattlechildrens.org	132.118, 159.122
Collins, D. L. Montreal Neurological Institute	louis.collins@mcgill.ca	107.089	Corsello, C. Rady Children's Hospital, San Diego	ccorsello@ucsd.edu	117.002
Collins, J. California Department of Public Health	Jack.x.Collins@kp.org	118.079, 121.149	Cosgriff, J. Vanderbilt University	joseph.c.cosgriff@vanderbilt.edu	131.097
Collins, M. University of California, San Diego	mcollins@ucsd.edu	109.136	Costa, L. Instituto de Ciencias Básicas y Medicina Experimental (ICBME), Hospital Italiano de Buenos Aires	lucas.costa@hospitalitaliano.org.ar	109.141
Collins, S. University of Cincinnati	collinsu@mail.uc.edu	141.152	Costanzo, V. University at Albany, SUNY	vcostanzo@albany.edu	120.119
Colpe, L. National Institute of Mental Health	lcolpe@mail.nih.gov	165.001	Cotter, C. Center for Children with Special Needs	ccotter@autismct.com	155.011
Coman, D. University of Miami	dcoman@psy.miami.edu	131.078, 131.080, 161.206	Couchon, E. IntegraGen, Inc	elizabeth.couchon@integragen.com	126.002
Coman, N. University of Miami	ncoman@psy.miami.edu	161.206	Courchesne, E. University of California, San Diego	ecourchesne@ucsd.edu	107.084, 109.136, 132.148, 132.149, 152.002
Concannon, K. Childrens Hospital Boston	kristin.concannon@childrens.harvard.edu	130.037	Courchesne, V. Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Department of Psychology, Université de Montréal	vall29@hotmail.com	141.156, 141.163
Conceição, I. Instituto Nacional de Saúde Dr Ricardo Jorge	ines.conceicao@insa.min-saude.pt	109.155			
Congiu, S. Center for Pervasive Developmental Disorders, AOB	saracongiu@hotmail.com	141.144, 159.124			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Couture, M. Sherbrooke University	melanie.M.couture@usherbrooke.ca	140.102, 158.097	D'Almeida, V. Institute of Psychiatry, King's College London, Centre for Neuroimaging Sciences, King's College London	vera.dalmeida@kcl.ac.uk	107.104
Cox, A. Yale Child Study Center	anthony.cox@yale.edu	112.209	D'Elia, L. Children's Hospital Bambino Gesù	lidia.delia@opbg.net	131.075, 131.076, 140.089
Cox, D. University of Virginia	djc4f@virginia.edu	122.162	D'Entremont, B. University of New Brunswick	bdentrem@unb.ca	132.122, 140.088
Cox, N. Curry School of Education at the University of Virginia	neillbroderick@gmail.com	122.162	D'Eramo, K. Center for Children with Special Needs	kderamo@autismct.com	155.011
Cox, S. University of Virginia	stephany.cox@gmail.com	122.162	Da Fonseca, D. Autism Resource Center, Neurosciences Institute of La Timone	david.dafonseca@ap-hm.fr	138.012
Craig, M. Institute of Psychiatry, King's College London	m.craig@iop.kcl.ac.uk	152.004	Dager, S. University of Washington	srd@u.washington.edu	107.089, 141.147, 152.001, 157.031
Crais, E. University of North Carolina at Chapel Hill	bcrais@med.unc.edu	102.008, 123.194, 132.114, 132.125, 161.185	Dal, H. Karolinska Institutet	henrik.dal@ki.se	121.148
Crawford, D. York University	dakc@yorku.ca	105.017, 108.128, 109.156	Daley, T. Westat	TamaraDaley@westat.com	122.178, 150.003
Crawley, J. NIMH/NIH	crawleyj@mail.nih.gov	104.006, 105.002, 105.003, 105.004	Dalferth, M. University of Applied Sciences Regensburg	matthias.dalferth@hs-regensburg.de	120.132
Crisler, M. University of Alabama	crisl002@crimson.ua.edu	112.208, 139.043, 141.149, 141.167	Dalman, C. Karolinska Institutet	christina.dalman@ki.se	118.077, 121.148, 122.170, 128.004
Crittendon, J. Vanderbilt Kennedy Center, Vanderbilt Autos Lab	julie.a.davidson@vanderbilt.edu	129.018	Daluwatte, C. University of Missouri, Columbia	cldc82@mail.missouri.edu	157.025
Croen, L. A. Kaiser Permanente Division of Research	Lisa.A.Croen@kp.org	103.001, 118.078, 118.079, 118.080, 118.082, 118.086 121.142, 121.149, 121.150, 121.152, 121.158, 128.005, 150.001, 150.002, 163.004, 166.001	Daly, E. King's College London, Institute of Psychiatry	eileen.daly@kcl.ac.uk	106.030, 106.031, 107.107, 152.006
Cross, T. University of South Carolina	crosstp@email.sc.edu	123.200	Damiano, C. University of North Carolina	cara.r.damiano@vanderbilt.edu	141.131, 164.006
Crossett, S. Marcus Autism Center: Children's Healthcare of Atlanta	sarah.crossett@choa.org	161.182	Dammann, A. University of Notre Dame	adamann@nd.edu	133.210
Crowell, C. University of Notre Dame	ccrowell@nd.edu	133.209	Daniels, A. M. Johns Hopkins Bloomberg School of Public Health	adaniels@jhsph.edu	137.003
Cuccaro, M. L. John P Hussman Institute for Human Genomics	mcuccaro@med.miami.edu	117.043	Daniels, J. L. University of North Carolina	julie_daniels@unc.edu	103.001, 121.149, 121.150, 121.160
Cukier, S. PANACEA	sebastiancukier@hotmail.com	106.035, 121.142	Daniels, R. E. Chicago Children's Clinic	rdaniels@chicagochildrensclinic.com	131.052
Cullell, C. CIBERSAM	ccullell@clinic.ub.es	107.102	Dankner, N. A. National Institute of Mental Health	dankner@mail.nih.gov	152.007
Cummings, J. Emory University	jrcummi@emory.edu	121.158	Dansart, P. Inserm U930	p.dansart@chu-tours.fr	132.145
Cunniff, C. M. University of Arizona College of Medicine	ccunniff@peds.arizona.edu	121.159	Dapretto, M. UCLA	mirella@loni.ucla.edu	107.082, 127.005, 146.004, 164.007
Cunningham, C. Marcus Autism Center & Children's Healthcare of Atlanta	Chaira.Cunningham@choa.org	120.121	Dassonville, P. University of Oregon	prd@uoregon.edu	140.092
Cunningham, N. University of Louisville	nancy.cunningham@louisville.edu	131.045	Datko, M. Brain Development Imaging Lab, San Diego State University	mike.datko@gmail.com	107.075
Cunningham, T. The Hospital for Sick Children	todd.cunningham@sickkids.ca	107.099	Datko, M. University of California San Diego	mikedatko@gmail.com	153.008
Cupoli, M. Advocate Illinois Masonic Medical Center	Michael.Cupoli-MD@advocatehealth.com	132.155	Dauterman, H. Seattle Pacific University	dauterman@spu.edu	139.069, 158.083
Curatolo, P. Child Neuropsychiatry, Univ. of Rome 'Tor Vergata'	curatolo@uniroma2.it	157.040	Davatzikos, C. University of Pennsylvania	christos.davatzikos@uphs.upenn.edu	125.002
Curby, K. Temple University	curby@temple.edu	141.127	Davey Smith, G. University of Bristol	KZ.Davey-Smith@bristol.ac.uk	118.084
Cuva, S. University of Trento	simone.cuva@unitn.it	139.049	Davey-Smith, G. School of Social and Community Medicine, University of Bristol	George.Davey-Smith@bristol.ac.uk	148.002
Cytrynbaum, C. Hospital for Sick Children	cheryl.cytrynbaum@sickkids.ca	123.191	Davidson, D. Loyola University Chicago	ddavids@luc.edu	141.139
<b>D</b>			Davidson, J. TRIAD, Vanderbilt Kennedy Center	julie.a.davidson@Vanderbilt.Edu	158.098
D'Abreu, L. University of Texas at Austin	ldabreu419@gmail.com	139.080	Davis, B. University of Washington	bedavis@uw.edu	118.063

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Davis, R. Kaiser Permanente Center for Health Research Southeast	Robert.L.Davis@kp.org	121.158	Dent, A. Univeristy of Michigan	alexdent@umich.edu	132.109
Dawson, G. Autism Speaks, UNC Chapel Hill	gdawson@autismspeaks.org	109.131, 112.206, 126.002, 141.147, 152.001, 159.115, 159.122	Deodato, M. Azienda Sanitaria Provinciale	mirella.deodato@asp.messina.it	129.004
Day, J. University of Missouri	jrd4g5@mail.mizzou.edu	157.028	Deoni, S. Centre for Neuroimaging Sciences, King's College London	sdeoni@mac.com	107.104
de Bruin, E. University of Amsterdam	e.i.debruin@uva.nl	131.051, 157.055, 158.074	DePedro, D. Yale University, Child Study Center	dianna.depdro@yale.edu	107.105
De Falco, S. University of Trento	simona.defalco@unitn.it	139.041, 142.188	DePlonty, K. MIND Research Network	kdeplonty@mrn.org	157.052
De Filippis, B. Istituto Superiore di Sanità	bianca.defilippis@iss.it	133.192	DeRamus, M. Autism Spectrum Disorders Clinic, University of Alabama	mkderamus@ua.edu	139.043
de Lange, F. Radboud University Nijmegen	floris.delange@donders.ru.nl	106.062	Dereu, M. Ghent University	mieke.dereu@ugent.be	161.180, 161.190
de Nijs, P. Erasmus MC - Sophia's Children's Hospital	p.denijs@erasmusmc.nl	103.006, 158.074	Dem, S. Auticon	sebastian.dern@gmx.de	138.034
De Peppo, L. U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù	l.depeppo@alice.it	141.134	Deruelle, C. Neurosciences Institute of La Timone	deruelle@incm.cnrs-mrs.fr	138.012
de Vries, M. University of Amsterdam	m.devries@uva.nl	131.047	Desai, V. Carilion Clinic	dvarsha@carilion.com	116.004
de Wit, S. University of Amsterdam	S.deWit@uva.nl	140.090	Deshpande, H. University of Alabama at Birmingham	vonrishi@uab.edu	107.087
Dean, A. University of Cambridge	aw470@hermes.cam.ac.uk	107.086	Desrochers, C. Pinecrest Queensway Community Health Centre	cdesrochers@ppqhc.com	132.116
Dean, M. University of California, Los Angeles	michodean@gmail.com	159.138	Deth, R. Northeastern University	r.deth@neu.edu	108.113, 108.116, 108.119, 118.068, 118.069, 157.020
DeBenedictis, K. Yale University, Child Study Center	kerry.debenedictis@yale.edu	107.105	DeThorne, L. University of Illinois	lauras@illinois.edu	132.110
Deeley, Q. King's College London, Institute of Psychiatry	quinton.deeley@iop.kcl.ac.uk	106.030	DeVane, L. Medical University of South Carolina	devanel@musc.edu	114.002
Deen, B. MIT	bdeen@mit.edu	146.003	Devaney, J. Children's National Medical Center	JDevaney@cnmcresearch.org	109.159
Deisher, T. Sound Choice Pharmaceutical Institute	tdeisher@soundchoice.org	108.115, 109.146, 109.152	Devaraj, S. Baylor College of Medicine	sxdevara@texaschildrens.org	118.080
Dekker, L. Erasmus MC - Sophia's Children's Hospital, Yulius	l.p.dekker@erasmusmc.nl	131.054, 158.107	Devine, D. P. University of Florida	dpdevine@ufl.edu	105.012, 105.013
Dela Cruz, K. University of California, Los Angeles	kiamarie.dcv@gmail.com	159.142	Devlin, B. University of Pittsburgh School of Medicine	devlinbj@upmc.edu	109.150, 124.001
DeLaTorre, R. University of Texas - Heath	Rodrigo.DeLaTorre@uth.tmc.edu	133.187	Dewaele, N. Ghent University	nele.dewaele@ugent.be	130.039
dell'Acqua, F. King's College London	flavio.dellacqua@kcl.ac.uk	152.004	Dhiman, R. Robert Wood Johnson Medical School	rdhiman@eden.rutgers.edu	105.001
Delmonte, S. Trinity College Dublin	sdelmont@tcd.ie	127.006	Di Fulvio, A. University of Applied Sciences Western Switzerland	df_angela@hotmail.com	132.105
Demopoulos, C. MIND Research Network, Illinois Institute of Technology	carlydemopoulos@gmail.com	157.052	Di Martino, A. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	adriana.dimartino@nyumc.org	106.036, 154.005, 158.079
Dempsey, A. University of Texas Health Science Center at Houston	Allison.Dempsey@uth.tmc.edu	117.042, 117.060	Di Rezze, B. McMaster University	direzzbm@mcmaster.ca	161.208
Demurie, E. Ghent University	ellen.demurie@ugent.be	141.129	Dichter, G. University of North Carolina	dichter@biac.duke.edu	141.131, 164.006
Demuth, K. Macquarie University	katherine.demuth@mq.edu.au	142.196	DiCicco-Bloom, E. Robert Wood Johnson Medical School, Robert Wood Johnson Medical School	diciccem@umdj.edu	104.006, 105.001
Denckla, M. Johns Hopkins University School of Medicine, Kennedy Krieger Institute	denckla@kennedykrieger.org	106.034	Dickey, K. University of Alabama - ASD Clinic	kelly.dickey@ua.edu	116.002
DeNigris, D. City University of New York	ddenigris@gmail.com	139.072	Diehl, J. University of Notre Dame	joshua.diehl@nd.edu	133.209, 133.210, 138.006
Denio, E. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	Erin.Denio@nyumc.org	106.036	Diekmann, Y. Instituto Gulbenkian de Ciência	ydiekmann@igc.gulbenkian.pt	126.007
Dennen, T. The Lewin Group	taylor.dennen@lewin.com	122.185, 133.208	Dietz, C. Altrecht Institute for Mental Health Care	cdiet@umcutrecht.nl	159.130
Dennis, S. The Ohio State University	simon.dennis@gmail.com	112.200			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
DiGuseppi, C. University of Colorado Denver	Carolyn.DiGuseppi@UCHSC.edu	103.001, 121.149, 121.150, 122.188	Doobay, V. McGill University, Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	victoria.doobay@mail.mcgill.ca	141.199
Dillon, A. R. Pacific Graduate School of Psychology	ashleyrdillon@gmail.com	161.193	Dorai, M. UCSD	mala.dorai@gmail.com	138.019
Dimian, A. University of Minnesota	dimia006@umn.edu	120.128	Doss, C. University of Alabama at Birmingham	connie19@uab.edu	164.001
Dimitropoulos, A. Case Western Reserve University	axd116@case.edu	157.047	Dotov, D. University of Connecticut	dobromir.dotov@uconn.edu	129.017
DiPiero, K. St. Mary's College	katie.dipiero12@gmail.com	133.210	Douglas, J. St. Amant School	jdouglas@stamant.mb.ca	120.131
DiQuattro, M. Advocate IL Masonic Medical Center	megan.diquattro@advocatehealth.com	132.155	Douglas, P. University of California, Los Angeles	pamelita@ucla.edu	146.004
Dirlikov, B. Kennedy Krieger Institute	ben.dirlikov@gmail.com	142.205	Dovi, A. University of Houston	dovialli@msu.edu	117.060, 131.090, 161.200
Dissanayake, C. Olga Tennon Autism Research Centre	c.dissanayake@latrobe.edu.au	120.133, 132.111, 132.128, 132.129, 141.133, 155.004	Dowd, A. Yale University School of Medicine	alexandra.dowd@yale.edu	135.005, 139.066
Dixon, E. NIMH	eunice.dixon@nih.gov	127.004, 140.112, 159.110	Dowds, E. Bloorview Kids Rehab and Hospital for Sick Children/ University of Toronto	erin.dowds@sickkids.ca	132.150
Doan, N. Sound Choice Pharmaceutical Institute	kdoan@soundchoice.org	109.146, 109.152	Dowell, L. E. Vanderbilt University	leslie.e.dowell@vanderbilt.edu	142.197
Dobkin, C. New York State Institute for Basic Research in Developmental Disabilities	carl.dobkin@opwdd.ny.gov	108.111	Downey, M. M. University of Pennsylvania School of Medicine	mdowney@upenn.edu	119.099, 120.130
Dobkins, K. R. University of California, San Diego	kdobkins@ucsd.edu	137.001, 157.026	Downing, K. Boston University	downing.kerri@gmail.com	160.147
Dodson, L. St. Amant Research Centre, University of Manitoba	mailto:ldodson@stamant.mb.ca	120.131	Doyle-Thomas, K. A. Holland Bloorview Kids Rehabilitation Hospital	kdoylethomas@hollandbloorview.ca	107.076, 140.110, 140.113, 140.114
Doering, L. McMaster University	doering@mcmaster.ca	108.130	Doyle-Thomas, K. A. Bloorview Research Institute	kdoylethomas@hollandbloorview.ca	107.092
Doernberg, N. Centers for Disease Control and Prevention	nsd0@cdc.gov	118.083	Dressler, G. UConn	ghd06002@engr.uconn.edu	129.017
Doggett, R. University of California, Santa Barbara	rdoggett@education.ucsb.edu	132.099	Dritschel, B. University of St Andrews	bd9@st-andrews.ac.uk	139.053
Dohrmann, E. H. Vanderbilt University	liz.dohrmann@vanderbilt.edu	123.199	Drmic, I. E. Hospital for Sick Children	irene.drmic@sickkids.ca	119.112, 123.191
Dolan, B. Marquette University	bridget.dolan@marquette.edu	112.204, 131.065, 131.046	Dromi, E. Tel Aviv University	dromi@post.tau.ac.il	120.136, 140.100
Dolmetsch, R. Stanford University	ricardo.dolmetsch@stanford.edu	104.005	Drouillard, B. University of Windsor	drouillb@uwindsor.ca	123.193, 132.124
Dombroski, B. University of Pennsylvania School of Medicine	dombrosk@mail.med.upenn.edu	126.002	Drumm, E. Holland Bloorview Kids Rehabilitation Hospital	edrumm@hollandbloorview.ca	158.065
Dombroski, B. University of Louisville	badomb01@louisville.edu	107.098, 112.197	Duan, Y. University of Missouri, Thompson Center for Autism and Neurodevelopmental Disorders	duanye@missouri.edu	157.037, 157.038
Domes, G. University of Freiburg	domes@psychologie.uni-freiburg.de	133.190	Dubin, A. University of Georgia	ashdub@uga.edu	122.169, 157.041
Dominska, A. Children's National Medical Center	adominska@gmail.com	158.108	DuBray, M. B. University of Utah	molly.dubray@hsc.utah.edu	107.101, 127.002
Donald, J. University of Georgia	jaimi.donald@gmail.com	122.169, 157.041	Duerden, E. Hospital for Sick Children	emma.duerden@sickkids.ca	107.091, 107.092
Doneddu, G. Center for Pervasive Developmental Disorders, AOB	giuseppe.doneddu@tiscali.it	141.144, 159.124, 159.125, 161.184	Dufek, S. University of California, San Diego	sdufek@ucsd.edu	132.149, 132.148
Donnadieu, S. Université de Savoie, Laboratoire de Psychologie et Neurocognition (UMR CNRS 5105)	Sophie.Donnadieu@univ-savoie.fr	140.093	Dugas, K. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), McGill University	kevin.dugas@mail.mcgill.ca	141.156
Donnelly, R. Department of Pathology and Laboratory Medicine, UMDNJ - New Jersey Medical School, Department of Pathology and Laboratory Medicine, UMDNJ - Graduate School of Biomedical Sciences	donnelly@umdnj.edu	105.008	Duhaime, S. Autism Ontario	sarah@autismontario.com	123.212
			Duhig, M. Queensland Children's Hospital	michael_duhig@qcmhr.uq.edu.au	132.106
			Duijkers, J. C. L. M. Centre of Excellence for Neuropsychiatry, Vincent van Gogh Institute for Psychiatry	jduijkers@hotmail.com	139.058



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Duketis, E. Goethe University	eftichia.duketis@kgu.de	117.048	Eikov, R. Children's Hospital of Philadelphia	eikov@email.chop.edu	117.010
Duku, E. Offord Centre for Child Studies, McMaster University	duku@mcmaster.ca	102.007, 103.007, 116.001, 117.038, 133.204, 133.205, 135.006, 136.001, 141.138, 158.101	Eisenhower, A. University of Massachusetts	Abbey.Eisenhower@umb.edu	147.001
Duncan, A. Cincinnati Children's Hospital Medical Center	amie.duncan@cchmc.org	119.111	Ejaz, E. University of California, Davis	eejaz@ucdavis.edu	110.171
Dundas, E. M. University of Pittsburgh	emd16@pitt.edu	141.143	Ekas, N. Texas Christian University	naomi.ekas@tcu.edu	119.102
Duplan, S. Hôpital Rivière-des-Prairies	sabine.duplan@gmail.com	111.185	Eklund, H. Institute of Psychiatry, King's College London	hanna.eklund@kcl.ac.uk	119.107, 123.202
Duque, F. Hospital Pediátrico de Coimbra	fredericoduque@chc.min-saude.pt	109.155	El-Baz, A. S. University of Louisville	aselba01@louisville.edu	107.083, 107.098, 110.168, 111.180, 112.197, 112.210, 133.185, 138.016
Durand, V. University of South Florida St. Petersburg	vdurand@mail.usf.edu	133.161	El-Ghazzawy, O. Washington University School of Medicine	omar@wuchem.wustl.edu	107.069
Durkin, M. University of Wisconsin-Madison	mdurkin@wisc.edu	121.159, 122.188	Elam, M. Sahlgrenska University Hospital	Mikael.Elam@neuro.gu.se	107.072
Durston, S. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	S.Durston@umcutrecht.nl	107.108	Elbaum, B. University of Miami	elbaum@miami.edu	123.196, 123.198
Dutra, M. Federal University of Rio Grande do Sul (FRGS)	mellaniedutra@hotmail.com	105.010	Elder, J. University of Florida	elderjh@ufl.edu	117.029
Dykens, E. Vanderbilt Kennedy Center	elisabeth.dykens@vanderbilt.edu	129.006	Elder, L. University of Washington	lelder@u.washington.edu	111.182, 160.163
Dykstra, J. University of North Carolina at Chapel Hill	jessica_dykstra@med.unc.edu	132.114, 132.125, 161.185	Eldridge, J. The Ohio State University	eldridge.48@osu.edu	112.200
Dziobek, I. Freie Universität Berlin	isabel.dziobek@fu-berlin.de	106.043, 138.034	Elgin, J. University of Washington	jenna2@uw.edu	117.039, 160.150
<b>E</b>			Elias, R. University of California, Berkeley	relias@berkeley.edu	142.210
Eack, S. University of Pittsburgh	sme12@pitt.edu	133.157	Elison, J. T. California Institute of Technology	elison@email.unc.edu	107.067, 135.001, 152.001
Earls, M. Guildford Child Health	MEarls@gchinc.com	123.194	Elkabes, S. Department of Neurology and Neuroscience, UMDNJ - New Jersey Medical School, Department of Neurology and Neuroscience, UMDNJ - Graduate School of Biomedical Sciences	elkabest@umdnj.edu	105.008
Eavani, H. Children's Hospital of Philadelphia	harinie@gmail.com	107.097	Ellegood, J. The Hospital for Sick Children	jacob@phenogenomics.ca	104.008, 105.003
Eberly, H. Vanderbilt University	haley.e.eberly@vanderbilt.edu	115.002, 140.104, 141.150	Ellingsen, R. UCLA	ruth.ellingsen@gmail.com	131.068, 131.074, 131.083, 132.138, 161.191
Ecker, C. Institute of Psychiatry	christine.ecker@kcl.ac.uk	106.030, 106.031, 107.107, 122.183, 152.006	Elliott, G. Children's Health Council	gelliott@chconline.org	114.008
Eckhardt, M. Massachusetts Institute of Technology, The Media Laboratory	micahrye@MIT.EDU	129.021	Ellis Weismer, S. University of Wisconsin-Madison	ellisweismer@wisc.edu	131.081, 159.137 161.201
Edden, R. John Hopkins University	richardedden@gmail.com	107.109	Eloi, M. University of California, Davis	mdeloi@ucdavis.edu	108.125
Edelson, S. Autism Research Institute	smedelson@gmail.com	112.197, 133.185	Elsabbagh, M. Centre for Brain and Cognitive Development, Birkbeck	m.elsabbagh@bbk.ac.uk	111.194, 120.118, 138.007, 141.136
Eden, S. Bar-Ilan University	ueden@upp.co.il	129.012	Elsuni, L. JW Goethe University Frankfurt am Main	leyla.elsuni@kgu.de	131.067
Edey, R. Institute of Child Health	rosy.edey@gmail.com	139.047	Embacher, R. Cleveland Clinic Center for Autism	embachr@ccf.org	103.003, 148.004
Edgar, J. C. Children's Hospital of Philadelphia	edgarj@email.chop.edu	107.085	Emery, H. University of Calgary	hemery@ucalgary.ca	120.134
Egger, J. Donders Institute for Brain, Cognition and Behaviour, Centre for Cognition, Radboud University Nijmegen, Centre of Excellence for Neuropsychiatry, Vincent van Gogh Institute for Psychiatry, Behavioural Science Institute, Radboud University Nijmegen	jegger@vvgi.nl	111.183, 111.184, 139.058	Emsley, R. University of Manchester	richard.emsley@manchester.ac.uk	160.157
Ehrenreich, J. University of Miami	jehrenreich@psy.miami.edu	114.003	Ence, W. University of California, Santa Barbara, University of North Carolina, Chapel Hill	whitneyence@gmail.com	132.133
Eichstedt, J. London Health Sciences Centre	julie.eichstedt@lhsc.on.ca	158.077	Endres, R. Federal University of Rio Grande do Sul	rgendres01@gmail.com	159.131, 161.199
Eigsti, I. University of Connecticut	inge-marie.eigsti@uconn.edu	117.036, 136.008, 141.137, 159.116, 160.168	Eng, C. Cleveland Clinic	engc@ccf.org	103.003, 148.004
			Ennis, C. University of Wisconsin	chad.m.ennis@gmail.com	107.101
			Ensenat, V. PANAACEA	viviana.ensenat@albertahealthservices.ca	121.142, 150.002

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Enzer, K. Boston University	enzerk@gmail.com	110.174	Fallucca, E. Children's National Medical Center	EFallucc@cnmc.org	131.094
Epstein, S. Children's Hospital of Philadelphia	epsteins@email.chop.edu	157.035	Falotico, M. Loyola University Chicago	mfalotico@luc.edu	141.139
Erickson, C. Indiana University School of Medicine	crericks@iupui.edu	131.056, 158.078	Fan, J. Mount Sinai School of Medicine	Jin.Fan@mssm.edu	107.092
Eriksen, W. University of Pennsylvania	weriksen@nursing.upenn.edu	157.034	Farber, G. National Institute of Mental Health	farberg@mail.nih.gov	117.011, 129.005
Eriksson, E. Institute of Neuroscience and Physiology	elias.eriksson@neuro.gu.se	117.025	Farley, M. University of Utah	megan.farley@hsc.utah.edu	128.007
Eriksson, J. Karolinska Institutet	Jonna.eriksson@gmail.com	117.012, 117.025	Farmer, C. National Institute of Mental Health	cristan.farmer@nih.gov	112.212
Ernst, W. Brigham Young University	whitney.ernst@comcast.net	112.205, 141.168, 159.119	Farmer, J. University of Missouri	farmerje@health.missouri.edu	120.120, 123.206
Erstenyuk, V. Hunter College, City University of New York	versteny@hunter.cuny.edu	117.047	Farruggio, V. Institute of Clinical Physiology, National Council of Research	vincenzofarru@tiscali.it	129.004
Escudero, P. University of Western Sydney	Paola.Escudero@uws.edu.au	142.210	Farzadegan, H. Department of Epidemiology, Johns Hopkins University Bloomberg School of Public Health	hfarzade@jhsph.edu	121.149, 121.152
Esler, A. University of Minnesota	amy.esler@gmail.com	117.007, 117.014	Faso, D. University of Texas at Dallas	dx110130@utdallas.edu	138.015, 158.100
Esposito, G. University of Trento	gianluca.esposito@unitn.it	139.041, 142.188	Fathi, A.	afathi3@gatech.edu	129.022
Essa, M. Sultan Qaboos University, University of New South Wales	drmdessa@gmail.com	157.020, 157.022	Fava, L. Autism Treatment and Research Center "Una breccia nel muro"	leonardo.fava@unabreccianelmuro.it	131.075, 131.076
Estabillio, J. University of California, San Diego	jestabillio@ucsd.edu	117.002	Favorov, O. University of North Carolina	favorov@bme.unc.edu	153.002
Estes, A. M. University of Washington	estesa@u.washington.edu	135.001, 141.147, 157.031, 160.150	Fawcett, C. Royal Columbian Hospital	Celina.Fawcett@fraserhealth.ca	166.002
Eussen, M. Yulius, Erasmus MC - Sophia's Children's Hospital	m.eussen@erasmusmc.nl	103.006, 158.074	Fawkes, D. Vanderbilt Medical Center	diane.b.fawkes@vanderbilt.edu	145.004
Evans, A. Montreal Neurological Institute	alan.evans@mcgill.ca	107.089, 149.001	Fecteau, S. University of Sherbrooke	stephanie.m.fecteau@usherbrooke.ca	119.094
Evans, A. University of Alabama School of Medicine	aevans@cchs.ua.edu	116.002	Fedele, A. Autism Genetic Resource Exchange	afedele@autismspeaks.org	118.079
Evans, D. University of Sydney	david.evans@sydney.edu.au	165.006	Federico, F. University "Sapienza" of Rome	francesca.federico@uniroma1.it	141.134
Evans, D. W. Bucknell University	dwevans@bucknell.edu	117.035, 126.003, 141.124	Feil-Seifer, D. Yale University, University of Southern California	dfseifer@usc.edu	129.016
Evans-Smith, B. Rush University Medical Center	bernadette_evans-smith@rush.edu	131.069	Fein, D. A. University of Connecticut	deborah.fein@uconn.edu	116.005, 116.006, 117.017, 117.020, 117.036, 136.008, 139.050, 139.062, 141.137, 142.198, 142.196, 159.116, 159.123, 160.168
Evers, K. K.U. Leuven	kris.evers@psy.kuleuven.be	138.027, 138.029	Feinberg, A. Johns Hopkins School of Medicine	afeinberg@jhu.edu	118.078
Ewing, L. University of Western Australia	louise.ewing@uwa.edu.au	115.007	Feinberg, J. Johns Hopkins School of Medicine	feinberg.jason@gmail.com	118.078
<b>F</b>			Feingold, D. Northeastern University	danielafeingold@gmail.com	108.116
Fabbri, A. Istituto Superiore di Sanità	fabbri@hotmail.it	133.192	Fejerman, N. Hospital J Garrahan	natalio@fejerman.com	157.042
Faber, S. The Children's Institute	sfa@the-institute.org	157.024	Feldman, J. New York State Institute	jffeldman@aol.com	118.062, 118.092
Fadda, R. University of Cagliari	robadda@unica.it	141.144, 159.124, 159.125, 161.184	Feldman, R. Bar-Ilan University	feldman@mail.biu.ac.il	100.001, 139.070, 164.008
Fahnestock, M. McMaster University	fahnest@mcmaster.ca	104.001	Felt, B. University of Michigan Medical School	truefelt@med.umich.edu	112.212
Fahrenholz, T. Duquesne University	fahrenholz@yahoo.com	157.024	Fenceroy, D. HAVE Dreams	dfenceroy@havedreams.org	120.137
Faja, S. University of Washington	susfaja@u.washington.edu	106.027, 112.206, 141.142, 153.006	Feng, L. National University of Singapore	lei_feng@nuhs.edu.sg	121.143
Falck-Ytter, T. Karolinska Institute	terje.falck-ytter@ki.se	141.140	Ferguson, B. University of Missouri, Columbia	fergusonbj@health.missouri.edu	107.077, 157.028
Faller, P. Children's Specialized Hospital	PFaller@childrens-specialized.org	132.115			
Fallin, M. D. Johns Hopkins School of Public Health	dfallin@jhsph.edu	118.078, 118.080, 118.082, 118.086, 121.149, 121.150, 121.152, 166.001			
Fallon, J.	jmf@curemark.com	133.212			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Fermano, Z. Rutgers University	zfermano@gmail.com	117.046	Flax, J. Rutgers University	jflax@andromeda.rutgers.edu	117.046, 166.005
Fernandez, B. Disciplines of Genetics and Medicine, Memorial University of Newfoundland and Provincial Medical Genetics Program, Eastern Health	bfernandez@nl.rogers.com	122.180	Fletcher, P. T. University of Utah	fletcher@sci.utah.edu	107.101
Fernell, E. Autism Centre for Young Children, Handicap and Habilitation	elisabeth.fernell@karolinska.se	141.140	Flint, C. HAVE Dreams	csflint@hotmail.com	120.137, 120.124, 123.190
Ferraro, F. R. University of North Dakota	f_ferraro@und.nodak.edu	139.060	Flores, H. McGill University	heidi.flores@mail.mcgill.ca	141.164
Ferretti, C. Center for Autism, Childrens Hospital of Philadelphia	ferretti@email.chop.edu	121.149	Floris, D. University of Cambridge	df312@medschl.cam.ac.uk	107.103, 140.096
Ferretti, L. Center for Pervasive Developmental Disorders, AOB	ferrettluca@gmail.com	159.125	Florou, I. Day Centre for Children with Developmental Disorders	epsypea1@otenet.gr	131.088
Ferro, M. Institute of Computational Linguistics, National Council of Research	marcello.ferro@ilc.cnr.it	129.004	Flory, M. New York State Institute for Basic Research in Developmental Disabilities	Michael.flory@omr.state.ny.us	140.119
Ferrone, C. Massachusetts General Hospital	cferrone2@partners.org	154.001	Foley, K. A. University of Western Ontario	kfoley6@uwo.ca	105.023
Fetterman, Z. University of Arkansas for Medical Sciences	zjfetterman@crimson.ua.edu	137.006	Fombonne, E. Montreal Children's Hospital, McGill University	eric.fombonne@mcgill.ca	103.007, 117.038, 119.103, 120.118, 123.209, 123.210, 128.007, 135.006, 136.001, 140.085, 141.138, 158.097, 158.101, 159.111, 161.177
Field, S. University of North Carolina at Chapel Hill	sam.field@unc.edu	102.008	Fonesca, K. Pfizer Global Research and Development	Kari.Fonesca@Pfizer.com	105.002
Fiks, A. Children's Hospital of Philadelphia/ University of Pennsylvania	fiks@email.chop.edu	137.002	Fong, M. University of Washington Autism Center CHDD	mcfong@uw.edu	160.172
Filiatrault, L. Department of Psychology, Université de Montréal	luc.filiatrault@umontreal.ca	141.156	Fongang-Fossa, A. UMDNJ-New Jersey Medical School	fonganam@umdnj.edu	141.162
Filipek, P. UT Health Sciences Center at Houston	Pauline.A.Filipek@uth.tmc.edu	159.118	Fonov, V. Montreal Neurological Institute	vfonov@bic.mni.mcgill.ca	107.089
Filliter, J. Dalhousie University	filliter@dal.ca	158.062	Fontaine, K. IntegraGen SA	karine.fontaine@integragen.com	126.002
Finch, T. Institute of Health and Society, Newcastle University	Tracy.Finch@ncl.ac.uk	109.160	Foran, A. University of Southern California	aforan@usc.edu	129.019
Findley, A. Marcus Autism Center & Children's Healthcare of Atlanta	addie.andrus@choa.org	133.196	Formica, D. Università Campus Bio-Medico	d.formica@unicampus.it	140.089
Findling, R. University Hospitals Case Medical Center	Robert.Findling@UHhospitals.org	103.003, 148.004	Forsberg, H. Karolinska Institute	hans.forsberg@ki.se	107.081
Findon, J. Institute of Psychiatry, King's College London	james.findon@kcl.ac.uk	119.107, 123.202	Fortunato, J. Wake Forest University Health Sciences	jfortuna@wfubmc.edu	157.027
Fiorentini, C. Istituto Superiore di Sanità	fiorentinic@yahoo.it	133.192	Foscoliano, M. AOB	mariafoscoliano@gmail.com	161.184
Fiori, A. UNIFESP	lilifiori@yahoo.com.br	138.003	Foss-Feig, J. H. Vanderbilt University	jennifer.h.foss-feig@vanderbilt.edu	115.002, 127.007, 140.103, 140.104, 141.150, 142.197
Fisher, W. Munroe-Meyer Institute, University of Nebraska Medical Center	wfisher@unmc.edu	140.099	Fossum, K. Dalhousie University	kfossum@dal.ca	114.006, 132.156
Fiske Massey, K. Rutgers University	kfiske@rci.rutgers.edu	140.109	Foster, J. A. McMaster University	jfoster@mcmaster.ca	108.130
Fitchgerald, R. Washington University	fitzgerr@psychiatry.wustl.edu	122.188	Foster, N. McGill University, International Laboratory for Brain Music and Sound (BRAMS)	autism-insar.org@wefunkradio.com	140.113, 140.114, 140.110
Fitzgerald, R. Washington University School of Medicine	fitzgerr@psychiatry.wustl.edu	121.159	Foster, P. Middle Tennessee State University	pfoster@mtsu.edu	157.028
Flanagan, D. Melbourne Brain Centre	d.flanagan@brain.org.au	106.063	Foti, F. University "Sapienza" of Rome, Centro Europeo per la Ricerca sul Cervello (CERC)/Fondazione Santa Lucia	francescafoti@yahoo.it	141.134
Flanagan, H. IWK Health Centre	hflanagan1@gmail.com	114.006, 141.138	Foulsham, T. University of Essex	tfoulsham@psych.ubc.ca	138.032
Flanagan, J. Kennedy Krieger Institute	Flanagan@kennedykrieger.org	140.084	Fox, J. Autistic Services Inc	jfox@autisticservices.org	131.063
			Foxe, J. J. Albert Einstein College of Medicine	foxe@nki.rfmh.org	109.163
			Francisco, E. University of North Carolina	franman@email.unc.edu	153.002



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Frank, E. UCSF	emilywfrank@gmail.com	109.137	Gabriels, R. Children's Hospital Colorado/ The University of Colorado at Denver and Health Sciences Center	gabriels.robin@tchden.org	123.213, 133.164, 133.165
Frank, K. Vanderbilt Medical Center	kim.frank@vanderbilt.edu	145.004	Gaddour, N. University of Monastir	naoufel@gmx.net	117.045
Frankel, F. UCLA Semel Institute for Neuroscience & Human Behavior	ffrankel@mednet.ucla.edu	101.002	Gadomski, T. University of California, San Diego	tgadomski@ucsd.edu	117.002
Fransson, P. Karolinska Institute	Peter.Fransson@ki.se	107.081	Gadow, K. State University of New York	kenneth.gadow@stonybrook.edu	158.075, 158.089
Frazier, T. Cleveland Clinic	frazier2@ccf.org	102.005, 103.003, 148.004, 166.007	Gage, N. University of Connecticut	nag7b6@mizzou.edu	131.040
Freedland, R. L. New York State Institute for Basic Research in Developmental Disabilities	freedland@mail.csi.cuny.edu	140.119	Gaha, L. University of Monastir	gaha.lotfi@rns.tn	117.045
Freedman, B. H. Kennedy Krieger Institute	freedman@kennedykrieger.org	123.203, 158.069, 160.151	Gaigg, S. B. City University London	s.b.gaigg@city.ac.uk	141.145, 141.155
Freeman, R. Children's Specialized Hospital	RFreeman@childrens-specialized.org	132.115	Gaillard, W. Childrens National Medical Center	wgaillar@cnmc.org	107.078
Freitag, C. JW Goethe University Frankfurt am Main	C.Freitag@em.uni-frankfurt.de	117.019, 131.067	Gaines, R. Children's Hospital of Eastern Ontario, University of Ottawa	gaines@cheo.on.ca	132.116
Freitag, C. M. Goethe-University	C.Freitag@em.uni-frankfurt.de	108.118, 117.048	Gal, E. University of Haifa	eynatgal@gmail.com	129.012
Fremont, W. SUNY Upstate Medical University	FremontW@upstate.edu	139.063	Galla, N. University of Central Arkansas	nikitagalla@gmail.com	161.208
Friedman, B. Virginia Tech	bhfriedm@vt.edu	136.006	Gallagher, L. Trinity College Dublin	lgallagh@tod.ie	127.006, 143.003
Friend, N. Northwestern University	natalie.friend@u.northwestern.edu	117.059	Galland, F. Federal University of Rio Grande do Sul (UFRGS)	fabianagalland@yahoo.com.br	105.009
Frigo, G. AOB	frigo.giovanna@gmail.com	161.184	Gallego, A. Simons Foundation	agallego@simonsfoundation.org	155.008
Fritsche, K. University of Missouri	FritscheK@missouri.edu	118.087	Gamber, B. University of Texas at Austin	bridget@mail.utexas.edu	139.078, 139.080, 158.104
Fritz, N. Marquette University	noelle.fritz@mu.edu	112.204, 131.046, 131.065	Gandolfo, M. McMaster University	gandolmd@muss.cis.mcmaster.ca	133.204
Froehlich, A. University of Utah	alyson.froehlich@hsc.utah.edu	107.101, 127.002	Gangi, D. University of Miami	dgangi@psy.miami.edu	139.076, 160.161
Froehlich, W. Stanford University	wendyf@stanford.edu	118.079	Gangopadhyay, I. The Johns Hopkins University School of Medicine	ishanti@jhu.edu	160.158
Frye, D. University of Pennsylvania	dfrye@gse.upenn.edu	139.064	Gantman, A. UCLA Semel Institute for Neuroscience & Human Behavior	agantman@mednet.ucla.edu	159.112
Frye, R. University of Arkansas for Medical Sciences	REFrye@uams.edu	105.022, 110.175, 133.159, 133.170, 133.187	Gao, K. David Geffen School of Medicine, University of California	KGao@mednet.ucla.edu	109.155
Fuentes, J. Policlinica Gipuzkoa	fuentes.j@telefonica.net	129.025	Garcia Coto, M. Centro de Investigaciones del Desarrollo Psiconeurologico (CIDEP)	garciacoto@grupocidep.org	109.141
Fujii, T. University of Fukui	tfujii@u-fukui.ac.jp	106.055	Garcia Primo, P. University of Salamanca	pgarciaprimo@isciii.es	121.155
Fujioka, T. University of Tsukuba	fujiot@kansei.tsukuba.ac.jp	141.141	Garcia-Garcia, M. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	mgarciagarcia1982@gmail.com	106.036
Fuller, A. UCLA	afuller85@ucla.edu	132.104	Gardiner, E. Simon Fraser University	emily_Gardiner@sfu.ca	140.094
Fulton, M. The University of New Brunswick	t533z@unb.ca	132.122, 140.088	Gardner, J. New York State Institute for Basic Research in Developmental Disabilities	karmelgardner@si.r.com	130.035, 140.119
Fung, C. The University of Hong Kong	fcw1209m@hkstar.com	109.149	Gardner, R. Karolinska Institutet	renee.gardener@ki.se	118.077
Fung, D. Institute of Mental Health	Daniel_FUNG@imh.com.sg	158.072	Garg, S. New York University	satvika.garg@nyu.edu	133.172
Fung, G. University of Hong Kong	cmgfung@hku.hk	107.093, 107.094	Garland, D. Newcastle Autism Resource Centre, National Autistic Society	Deborah.Garland@ntw.nhs.uk	109.160
Fung, S. York University	stfung@yorku.ca	119.100	Garon, N. Mount Allison University	nancy.garon@iwk.nshealth.ca	139.057
Furlano, R. Queen's University	7rf@queensu.ca	158.103	Garrecht, M. Swinburne University	mgarrecht@groupwise.swin.edu.au	108.123
Fusaro, M. UC Davis MIND Institute	mariafusaro@yahoo.com	159.136			
<b>G</b>					
Gabis, L. Sheba Medical Center, Tel Aviv University	gabis@post.tau.ac.il	165.002			
Gabrieli, J. D. Massachusetts Institute of Technology	gabrieli@mit.edu	107.080			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Garzarek, J. Yale University School of Medicine	jessica.garzarek@yale.edu	139.075, 160.159	Giampetro, V. King's College London, Institute of Psychiatry	vincent.giampetro@kcl.ac.uk	106.031
Gasaway, C. Marquette University	chelsea.gasaway@mu.edu	112.204, 131.065, 131.046	Giampetro, V. King's College London, Institute of Psychiatry	vincent.giampetro@kcl.ac.uk	127.008
Gasteratos, Jr., A. Day Centre for Children with Developmental Disorders, Messolonghi, Greece	andy_gast@yahoo.com	131.088, 157.015	Gianino, L. Marcus Autism Center & Childrens Healthcare of Atlanta	Lauren.Gianino@choa.org	120.121
Gastgeb, H. Z. University of Pittsburgh	hoz8@pitt.edu	139.046, 141.143	Giarelli, E. University of Pennsylvania	giarelli@nursing.upenn.edu	103.001, 121.149
Gastrell, P. NIMH/NIH	phillip.gastrell@nih.gov	105.004	Gibbs, T. Boston University School of Medicine	tgibbs@bu.edu	110.172
Gates, A. Massachusetts General Hospital	agates1@partners.org	154.001	Gibbs, V. Universal Progressive Therapy	varleisha@hotmail.com	129.010
Gatto, S. Simon Fraser University	sga54@sfu.ca	123.189	Gidaya, N. Drexel University School of Public Health	ngidaya@gmail.com	118.071, 166.001
Genestine, M. Robert Wood Johnson Medical School	genestmp@umdnj.edu	104.006, 105.001	Giedd, J. National Institute of Mental Health	gjedd@mail.nih.gov	107.088, 139.074, 152.007
Gengoux, G. W. Stanford University School of Medicine/Lucile Packard Children's Hospital	gracegengoux@yahoo.com	102.005, 119.096	Giesing, C. University of Missouri	cg5yb@mail.mizzou.edu	118.087
Génin, B. IntegraGen SA	berengere.genin@integragen.com	126.002	Gifford, T. University of Connecticut	timothy.gifford@uconn.edu	129.017, 132.136, 132.143
Gentles, S. McMaster University	gentlesj@mcmaster.ca	133.167	Gilbert, J. John P Hussman Institute for Human Genomics	jgilbert@med.miami.edu	117.043
George, I. University of Missouri School of Medicine, University of Missouri - Thompson Center for Autism and Neurodevelopmental Disorders	georgei@missouri.edu	157.037	Gilkerson, J. LENA Foundation	jill.gilkerson@gmail.com	129.027, 129.028, 132.144, 135.007, 159.114
Georgiades, K. Offord Centre for Child Studies, McMaster University	georgik@mcmaster.ca	116.001	Gillan, N. Institute of Psychiatry, King's College London	nicola.gillan@iop.kcl.ac.uk	122.183, 123.202, 154.008, 155.009
Georgiades, S. Offord Centre for Child Studies, McMaster University	georgis@mcmaster.ca	102.007, 103.007, 116.001, 117.038, 123.209, 123.210, 133.205, 133.204, 135.006, 136.001, 140.085, 141.138, 158.101, 161.177	Gillberg, C. The Gillberg Neuropsychiatry Centre, Sahlgrenska Academy, Gothenburg University	christopher.gillberg@pediat.gu.se	141.140, 155.001
Georgiou, A. Day Centre for Children with Developmental Disorders	anta-mes@yahoo.gr	131.088	Gillespie-Lynch, K. UCLA	proserpinae@ucla.edu	136.004, 142.210, 159.142
Geraghty, E. UC Davis School of Medicine	estella.geraghty@ucdavis.edu	118.081	Gillis, J. Auburn University	jengillis@auburn.edu	119.098, 160.160
Gerds, J. University of Washington	jvarley@uw.edu	109.131	Gilman, C. Center for Autism Research, Children's Hospital of Philadelphia	gilmanc@email.chop.edu	159.123
Gergis, G. La Trobe University	ggergis@students.latrobe.edu.au	142.194	Gilmour, L. University of Alberta	lauralynn.gilmour@gmail.com	158.109
Gerhard, G. Geisinger Health System	gsgerhard@geisinger.edu	117.035, 126.003	Gisel, E. McGill University	erka.gisel@mcgill.ca	158.097
Gericke, I. Concordia University	igericke@sympatico.ca	139.044	Giserman, I. Children's Hospital of Philadelphia	gisermani@email.chop.edu	107.097, 157.034, 160.143
Gerig, G. University of Utah	gerig@sci.utah.edu	107.089, 152.001	Gisin, E. Yale University School of Medicine	eugenia.gisin@yale.edu	129.023, 135.005, 139.066
Germanò, E. University of Messina, Hospital "G. Martino"	egermano@unime.it	129.004	Glaser, K. Kings College London	karen.glaser@kcl.ac.uk	119.107, 123.202
Geschwind, D. University of California, Los Angeles	dhg@mednet.ucla.edu	107.082, 109.150, 109.155, 134.004, 146.004, 164.007	Glatt, S. SUNY Upstate Medical University	glatts@upstate.edu	109.136
Geurts, H. M. University of Amsterdam	h.m.geurts@uva.nl	131.047, 140.090	Glazer, S. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	sarah.glazer@choa.org	142.203
Ghali, L. University of Calgary	Laura.Ghali@albertahealthservices.ca	155.012	Glessner, J. Children's Hospital of Philadelphia, University of Pennsylvania	GLESSNER@CHOP.EDU	109.161
Ghannam, M. King Faisal Specialist Hospital and Research Center	mghannam@kfsshr.edu.sa	109.142	Gliga, T. Birkbeck College	ubjtd87@bbk.ac.uk	139.052
Ghazanfar, A. Princeton University	asifg@princeton.edu	140.107	Godbout, R. Université de Montreal, Hôpital Rivière-des-Prairies, Sleep Laboratory & Clinic	roger.godbout@umontreal.ca	111.185
Ghilain, C. University of Miami	csghilain@gmail.com	131.078, 131.080	Godleski, S. Marcus Autism Center, Children's Healthcare of Atlanta, and University at Buffalo, SUNY	sg72@buffalo.edu	131.059
Ghosh, S. Indian Statistical Institute	saurabh@sical.ac.in	109.154			
Ghulam, M. Boston University School of Medicine	mghulam@bu.edu	105.014			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Goin-Kochel, R. Baylor College of Medicine	kochel@bcm.tmc.edu	116.008, 117.042, 120.129, 141.165, 142.174, 157.050	Gorka, B. Children's Hospital of Michigan	bgorka@dmc.org	131.044
Gokcay, G. Istanbul University	gulbingokcay@superonline.com	121.144	Gorman, M. Seattle Pacific University	gormam@spu.edu	139.073
Golan, O. Bar-Ilan University, The Association for Children at Risk	ofer.golan@biu.ac.il	138.030, 139.070	Gossen, A. RWTH Aachen University, JARA Translational Brain Medicine	angossen@ukaachen.de	106.047
Goldberg, W. A. University of California, Irvine	wendy.goldberg@uci.edu	142.213	Gotham, K. University of Michigan	kog@umich.edu	117.014, 158.063
Golding, J. University of Bristol	jean.golding@bristol.ac.uk	148.002	Gottfried, C. Federal University of Rio Grande do Sul (UFRGS)	cgottfried@ufrgs.br	105.009, 105.010
Goldman, S. E. Vanderbilt Medical Center	Suzanne.E.Goldman@Vanderbilt.edu	145.004	Gould, J. National Autistic Society	judithgould@nas.org.uk	117.051, 117.052
Goldman, S. Albert Einstein College of Medicine	sylviegold@aol.com	139.072	Gove, S. University of Chicago	stephanie.gove@gmail.com	132.155
Goldsmith, Ph.D. H. H. University of Wisconsin-Madison	hhgoldsm@wisc.edu	118.072, 140.098	Gowen, E. University of Manchester	emma.gowen@manchester.ac.uk	139.039
Goldstein, S. University of Utah School of Medicine	sam@samgoldstein.com	103.002	Gower, M. University of Alabama at Birmingham	gowerm@uab.edu	161.183
Golinkoff, R. University of Delaware	roberta@udel.edu	159.120	Gower Foster, T. Society for Treatment of Autism	gowert@sta-ab.com	133.188
Golovko, O. Prometheus Research, LLC	zindel@prometheusresearch.com	129.002	Gowert, R. Federal University of Rio Grande do Sul	rafaela.grinas@gmail.com	161.199
Gomez, T. New York State Institute for Basic Research in Developmental Disabilities	trovito@gmail.com	130.035	Gozzi, M. National Institutes of Health	gozzim@mail.nih.gov	107.088, 107.096
Gondalia, S. Swinburne University of Technology	sgondalia@swin.edu.au	157.029	Gradisar, M. Flinders University	grad0011@flinders.edu.au	145.003
Gondo, K. Kyoritsu Women's University	kgondo@kyoritsu-wu.ac.jp	142.184	Grafodatskaya, D. The Hospital for Sick Children	grafodat@sickkids.ca	109.157, 109.162
Gonzalez, E. University of Houston	ms_erikag@yahoo.com	122.182	Grafodatskaya, D. The Hospital for Sick Children	dgraphodatskaya@yahoo.com	109.143
Gonzalez, M. New York State Institute for Basic Research in Developmental Disabilities	Maripaz.Gonzalez@omr.state.ny.us	130.035	Gragg, M. N. University of Windsor	mragg@uwindsor.ca	123.193, 132.124
Gonzalez, Z. La Universidad del Zulia	zoila.g.a@gmail.com	161.202	Gramfort, A. Massachusetts General Hospital	gramfort@nmr.mgh.harvard.edu	107.080
Gonzalez Barrero, A. M. McGill University	ana.gonzalez@mail.mcgill.ca	160.149	Grañana, N. Hospital Carlos G Durand	ngranana@hotmail.com	109.141, 157.042
Good, J. University of Sussex	J.Good@sussex.ac.uk	129.015	Grantz, C. J. University of Miami	caroline.grantz@gmail.com	139.076, 160.172, 160.161
Goodarzi, M. UCLA	goodarzm@gmail.com	131.074, 132.138	Grau, R. University of Louisville	rigrau01@louisville.edu	123.207
Goodman, A. London School of Hygiene & Tropical Medicine	Anna.Goodman@lshtm.ac.uk	122.170	Grawemeyer, B. Bath University	bg230@cs.bath.ac.uk	141.151
Goodman, S. The Hospital for Sick Children	sarah_jg@hotmail.com	109.143	Gray, S.	sharmi@engineer.com	159.114
Goods, K. University of California, Los Angeles	kstickles@mednet.ucla.edu	132.119, 147.002	Grayson, L. Institute of Psychiatry, King's College London	graysonl@cardiff.ac.uk	158.066
Goodwin, M. Northeastern University	mgoodwin@media.mit.edu	129.021, 129.030, 142.193	Greally, J. Albert Einstein College of Medicine	john.greally@einstein.yu.edu	109.163
Gool, A. Yulius	a.vangool@yulius.nl	103.006	Greaves-Lord, K. Erasmus MC - Sophia's Children's Hospital, Yulius	k.greaves-lord@erasmusmc.nl	103.006, 118.067, 131.054, 138.011, 158.074, 158.107, 158.091
Gordon, B. The Johns Hopkins University School of Medicine, The Johns Hopkins University	bgordon@jhmi.edu	139.079, 159.129, 160.158	Green, J. University of Manchester	jonathan.green@manchester.ac.uk	142.179, 160.157, 160.167
Gordon, E. Georgetown University	emg56@georgetown.edu	107.078	Green, S. UCLA	shulamite@ucla.edu	127.005
Gordon, H. University of Miami	haley.gordon8@gmail.com	138.024	Green Snyder, L. Children's Hospital Boston	lags@umich.edu	116.008, 157.050
Gordon, I. Yale University	ilanit.gordon@yale.edu	164.004, 164.008	Green-Snyder, L. University of Michigan Autism & Communication Disorders Center, Children's Hospital Boston/Harvard Medical Center	lagreensnyder@gmail.com	117.014, 155.008
Gordon, J. Hunter College, City University of New York	kgordon@hunter.cuny.edu	111.189	Greenberg, J. Waisman Center, University of Wisconsin-Madison	greenberg@waisman.wisc.edu	140.083, 142.180
Gordon, K. Great Ormond Street Hospital	kate.gordon@kcl.ac.uk	147.004	Greening, L. University of Mississippi Medical Center	lgreening@umc.edu	117.034
Gordon, R. Great Ormond Street Hospital	kategordon@hotmail.co.uk	131.064	Greenslade, K. University of Washington	katygreenslade@hotmail.com	160.144

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Greenson, J. University of Washington	greenson@u.washington.edu	159.122	Guthrie, W. Florida State University	whitney.guthrie@med.fsu.edu	103.005
Greenup, M. Simons Foundation	mgreenup@simonsfoundation.org	155.008	Gutierrez, A. University of Miami	agutierrez@psy.miami.edu	114.005, 119.102, 131.078, 131.080, 161.179
Greer, K. University of Alabama School of Medicine	kogreer@uab.edu	116.002	Gutson, K. PANAACEA	kgutson@gmail.com	121.142, 121.153, 150.002
Gregas, M. Children's Hospital Boston	Matt.Gregas@childrens.harvard.edu	117.044	Guy, J. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), McGill University, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	jacalyn.guy@gmail.com	139.048
Grether, J. K. California Department of Public Health	judith.grether@cdph.ca.gov	118.079, 121.149	Guy, L. Children's Hospital of Philadelphia, Center for Autism Research	lisa.guy@choa.org	157.036
Grether, J. Sequoia Foundation	judith.grether@cdph.ca.gov	150.001	Gwaltney, M. UC Davis School of Education	Gwaltney@surewest.net	147.003
Griesi-Oliveira, K. University Sao Paulo, Biosciences Institute	karinagriesi@gmail.com	126.004	Gyftogianni, Jr., A. Day Centre for Children with Developmental Disorders	kgyftogianni@yahoo.gr	157.015
Grimmer, R. Saint Louis University	rgrimmer@slu.edu	118.090	Gyftogianni, Jr., M. Day Centre for Children with Developmental Disorders, Messolonghi, Greece	mgyftogianni@yahoo.gr	131.088, 157.015
Grinker, R. George Washington University	rgrink@gwu.edu	150.004	<b>H</b>		
Grodberg, D. Mount Sinai School of Medicine	david.grodberg@mssm.edu	103.008	Habak, C. Visual Perception and Psychophysics Lab, Université de Montréal, and Centre de Recherche, Institut Universitaire de Gériatrie de Montréal	claudine.habak@gmail.com	139.048, 141.132
Grondhuis, S. N. The Ohio State University	grondhuis.1@osu.edu	158.071	Habash, M. Leeds Metropolitan University	pmhabash@gmail.com	129.013
Gross, E. University of Louisville	ergros01@louisville.edu	138.016	Habayeb, S. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	shabaye@emory.edu	138.033, 140.111
Grossman, R. Emerson College, UMMS Shriver Center	ruth_grossman@emerson.edu	131.041, 132.098	Habel, U. RWTH Aachen University, JARA Translational Brain Medicine	uhabel@ukaachen.de	106.047
Grove, J. Aarhus University Faculty of Health Sciences	grove@humgen.au.dk	118.067	Hackett, G. Cambridge University Hospitals NHS Foundation Trust	gerald.hackett@addenbrookes.nhs.uk	108.117
Grove, M. The University of Texas School of Public Health at Houston	Megan.L.Grove@uth.tmc.edu	118.064	Hadjikhani, N. Harvard Medical School	nouchine.hadjikhani@epfl.ch	132.105
Grundschober, C. F. Hoffmann-La Roche	christophe.grundschober@roche.com	108.114	Haebig, E. University of Wisconsin-Madison	ehaebig@wisc.edu	131.081, 159.137, 161.194
Grzadzinski, R. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	rebecca.grzadzinski@gmail.com	106.036, 154.005	Hagerman, R. U.C. Davis MIND Institute	Randi.Hagerman@ucdmc.ucdavis.edu	133.173, 133.176, 159.117, 161.194
Gu, H. University of North Carolina	hongbin_gu@unc.edu	107.089, 135.001, 152.001	Hagiwara, T. Hokkaido University of Education	vaggy@me.com	117.041, 131.060
Guan, S. University of Toronto	sihui.guan@utoronto.ca	105.015	Hahn, N. Harvard University	nhahn@wjh.harvard.edu	142.212, 159.141
Guang, W. NY State Institute for Basic Research in Developmental Disabilities	wenguang@opwdd.ny.gov	110.169	Haines, J. Vanderbilt University	jonathan@chgr.mc.vanderbilt.edu	109.145, 112.202
Guarnera, M. Division of Child and Adolescents NeuroPsychiatry, Department of Pediatrics, University of Catania, Catania, Italy	manuela784@libero.it	141.134, 155.013	Hakkim, F. Sultan Qaboos University	clonehakkim@gmail.com	157.022
Guest, K. University of Alabama at Birmingham	kguest@uab.edu	117.013, 161.183, 161.195, 161.207	Hakonarson, H. University of Pennsylvania, Children's Hospital of Philadelphia	hakonarson@email.chop.edu	109.161
Guidoux, A. University of Applied Sciences Western Switzerland	acs_guidoux@hotmail.com	131.048	Hall, C. The Marcus Autism Center	christine.hall@choa.org	155.010
Guild, C. Saint Louis University	guildc@slu.edu	118.090	Hall, D. National Institute of Mental Health (NIMH)	halldan@mail.nih.gov	117.011, 129.005
Guillemin, G. UNSW	g.guillemin@unsw.edu.au	157.022	Hall, L. San Diego State University	ljhall@mail.sdsu.edu	131.066
Guimard-Brunault, M. Inserm U930	marie_guimard@hotmail.com	142.175	Halle, J. University of Illinois	halle@illinois.edu	132.110
Guldberg, K. University of Birmingham	k.k.guldberg@bham.ac.uk	129.014	Hallett, V. Yale University	victoria.hallett@yale.edu	158.067
Gulsrud, A. UCLA	acgulsrud@yahoo.com	132.104, 160.163	Hallmayer, J. Stanford University	joachimh@stanford.edu	118.079
Guntepe, D. Istanbul University	dilekguntepe@yahoo.com	121.144			
Gur, R. Perelman School of Medicine and the Philadelphia Veterans Administration Medical Center	gur@upenn.edu	106.047, 138.015			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Hambly, C. Montreal Children's Hospital	catherine.hambly@mail.mcgill.ca	159.111, 161.177	Harrington, J. Children's Hospital of The King's Daughters	john.harrington@chkd.org	102.002
Hamel, J. Marcus Autism Center	jennifer.hamel@choa.org	155.010	Harrington, R. Johns Hopkins Bloomberg School of Public Health	rharring@jhsp.edu	117.028, 121.156, 138.017, 142.204
Hämäläinen, M. S. Massachusetts General Hospital	msh@nmr.mgh.harvard.edu	107.080	Harris, A. The University of Alabama at Birmingham	harrisabbey@gmail.com	161.195, 161.207, 161.183
Hames, A. Institute of Neuroscience, Newcastle University	Annette.Hames@ncl.ac.uk	109.160	Harris, A. University of Connecticut	amanda.c.harris@uconn.edu	159.127
Hamilton, K. Seattle Pacific University	katelyn@spu.edu	139.069, 139.073	Harris, J. Children's Specialized Hospital	jharris@childrens-specialized.org	122.172
Hammerla, N. Newcastle University	niils.hammerla@newcastle.ac.uk	158.086	Harrison, B. University of Rochester	bryan.harrison@rochester.edu	160.164
Hammon, A. Institute of Psychiatry, King's College London	amyhammon@hotmail.co.uk	122.176	Harrop, C. University of Manchester	clare.harrop@manchester.ac.uk	160.157, 160.167
Hammond, N. South London and Maudsley NHS Foundation Trust	neil.hammond@slam.nhs.uk	122.183, 154.008	Hartley, C. Lancaster University	hartleyc@exchange.lancs.ac.uk	141.157, 142.199
Hampson, D. R. University of Toronto	d.hampson@utoronto.ca	105.015	Hartwig, S. Marcus Autism Center	sophie.hartwig@choa.org	157.018
Hampton, P. Children's Specialized Hospital	phampton@childrens-specialized.org	128.001	Harvey, L. University of Michigan Autism & Communication Disorders Center (UMACC)	eljacks@umich.edu	117.037
Han, Y. Georgia Institute of Technology	yihan@gatech.edu	129.022	Harvey, M. National Center on Birth Defects	mharveymp@gmail.com	121.149
Hancock, L. N. York University	lhancock@yorku.ca	141.125, 141.126	Harwood, R. Center for Autism Research Evaluation and Service	rhodges.cares@yahoo.com	119.101
Handen, B. University of Pittsburgh School of Medicine	handenbl@upmc.edu	133.199, 160.151	Hasegawa, T. The University of Tokyo	thase@darwin.c.u-tokyo.ac.jp	139.071, 142.211
Handler, T. Washington University	handlert@npg.wustl.edu	107.067	Haslinger, D. Paris-Lodron University	denise.haslinger@sbg.ac.at	108.118
Hanley, A. National Institute of Mental Health	hanleya@mail.nih.gov	107.088	Hassenfeldt, T. Virginia Tech	thassen@vt.edu	109.167, 116.004
Hanlon-Dearman, A. University of Manitoba, Children's Hospital	ahdearman@hsc.mb.ca	117.057	Hasty, K. UMMS Shriver Center	kathryn.hasty@umassmed.edu	132.098
Hanna, E. UNC-Chapel Hill	lnrhanna@gmail.com	164.006	Hatt, N. University of California, Davis	nvhatt@ucdavis.edu	106.066
Hanna, S. Offord Centre for Child Studies, McMaster University	hannas@mcmaster.ca	103.007, 135.006	Hatton, D. Vanderbilt University	Deborah.Hatton@Vanderbilt.Edu	161.189
Hansen, R.	Rachelle.Hansen@und.edu	139.060	Hauck, J. L. University of Michigan	jhauck@umich.edu	133.202
Hansen, R. UC Davis	rhansen@ucdavis.edu	128.008, 150.001	Haven, E. Seattle Pacific University	erin.haven@gmail.com	142.206
Hanson, E. Children's Hospital Boston, Harvard Medical School	ellen.hanson@childrens.harvard.edu	116.008, 117.037, 117.044, 157.032, 157.050	Haworth, J. University of Nebraska at Omaha, University of Nebraska Medical Center	jhawort@unmc.edu	140.099
Hanson, L. University of Ottawa	ljack033@uottawa.ca	139.045	Hawthorn, H. University of Central Arkansas	hhawthorn1@cub.uca.edu	161.208
Hao, T. Dana-Farber Cancer Institute, Harvard Medical School	tong_hao@dfci.harvard.edu	109.166, 126.006	Hayeems, R. Z. University of Toronto	robin.hayeems@utoronto.ca	123.192
Happe, F. Institute of Psychiatry	f.happe@iop.kcl.ac.uk	128.002, 140.118, 155.009	Hayes, E. University of Missouri	emhnc@mail.mizzou.edu	118.087
Haramaki, T. Saga University	tomoko_h@gd6.so-net.ne.jp	121.154	Hayward, H. Institute of Psychiatry, King's College London	hannah.hayward@kcl.ac.uk	119.107, 123.202
Hardan, A. Stanford University	hardanay@stanford.edu	102.005, 103.003, 148.004	Hazin, R. University of California, San Diego	rhazin@ucsd.edu	107.084
Harden, E. University of Illinois at Chicago	eharden456@gmail.com	136.007	Hazlett, H. C. University of North Carolina at Chapel Hill	heather_cody@med.unc.edu	107.089, 135.001, 152.001
Hardesty, P. University of Louisville	patrick.hardesty@louisville.edu	131.045	Heacock, J. Ohio State University	jessica.l.heacock@vanderbilt.edu	127.007
Hare, A. Rutgers University	abhare@eden.rutgers.edu	117.046, 166.005	Head, A. Deakin University	alex.head@deakin.edu.au	160.145
Hare, C. Autism Speaks	chare@autismspeaks.org	157.054	Heaton, P. Goldsmiths College, University of London	p.heaton@gold.ac.uk	140.101
Hare, D. University of Manchester	dougal.hare@manchester.ac.uk	138.010	Hebert, H. The Summit Centre for Preschool Children with Autism	hhebert@summitcentre.org	132.124
Harmanci, H. Meram Faculty of Medicine	hatice_harmanci@hotmail.com	157.048	Hebron, J. University of Manchester	judith.hebron@manchester.ac.uk	165.004
Harpster, K. Cincinnati Children's Hospital Medical Center	karen.harpster@osumc.edu	112.200	Hecht, P. University of Missouri	pmhp6d@mail.missouri.edu	118.087, 118.088

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Hedin, L. Scania County	larsfhedin@gmail.com	133.189	Hess, C. Kennedy Krieger Institute	hess@kennedykrieger.org	119.095
Heekeren, H. Freie Universität Berlin	hauke.heekeren@fu-berlin.de	106.043	Hessl, D. UC Davis MIND Institute	david.hessl@ucdmc.ucdavis.edu	133.173
Hegarty, II, J. University of Missouri, Columbia	hegartyj@missouri.edu	107.077	Heussler, H. The University of Queensland, Mater Medical Research Institute, Mater Children's Hospital	Honey.Heussler@mater.org.au	132.106
Heil, M. Curemark LLC	Matthew.Heil@curemark.com	133.212	Hewitson, L. The Johnson Center for Child Health and Development	lhewitson@johnson-center.org	119.097
Heilbrun, L. University of Texas Health Science Center San Antonio	Heilbrunl@uthscsa.edu	118.085	Hickey, M. University of Melbourne	Martha.Hickey@thewomens.org.au	104.003
Heinrichs, D. University of Manitoba	mailto:umheindr4@cc.umanitoba.ca	120.131	Hildebrand, J. University of British Columbia	jhildebrand@cw.bc.ca	166.002
Hellendoorn, A. Utrecht University	A.Hellendoorn@uu.nl	121.155, 159.130	Hileman, C. MIND Institute, UC Davis	camillam@live.com	117.021, 131.071, 161.206
Hellsten, L. University of Saskatchewan	laurie.hellsten@usask.ca	160.171	Hill, D. Dana-Farber Cancer Institute, Harvard Medical School	David_Hill@dfci.harvard.edu	109.166, 126.006
Helt, M. University of Connecticut	mollyhelt@aol.com	117.036, 136.008, 141.137, 159.116	Hill, E. Goldsmiths, University of	e.hill@gold.ac.uk	157.057
Hench, K. Aaction Autism	khench@aactionautism.org	123.190	Hill, V. Institute of Education	v.hill@ioe.ac.uk	139.056
Henderson, A. Northern Genetics Service, Newcastle Upon Tyne NHS Foundation Trust	Alex.Henderson@nuth.nhs.uk	109.160	Hiller, D. Johns Hopkins School of Medicine	dhiller2@hmi.edu	118.078
Henderson, H. A. University of Miami	h.henderson@miami.edu	117.021, 139.068, 159.134, 161.206	Hiller, R. Flinders University of South Australia	rachel.hiller@flinders.edu.au	139.042
Hendren, R. University of California, San Francisco	robert.hendren@ucsf.edu	133.159, 133.186	Hillier, A. University of Massachusetts Lowell	ashleigh_hillier@uml.edu	138.035
Henkelman, R. M. The Hospital for Sick Children	mhenkel@phenogenomics.ca	104.008, 105.003	Hillwig-Garcia, J. Department of Psychiatry, Penn State Hershey	jhillwig-garcia@hmc.psu.edu	131.089
Henry, L. UCLA	lindsay.henry@pepperdine.edu	131.074, 131.095, 132.138	Hinkka-Yli-Salomaki, S. University of Turku	sushys@utu.fi	128.003
Hensley, M. University of Louisville	marie.hensley@louisville.edu	133.185	Hinnebusch, A. University of Connecticut	alexander.hinnebusch@uconn.edu	117.020
Hepburn, S. University of Colorado Denver, Anschutz Medical Campus	susan.hepburn@ucdenver.edu	103.001, 107.071, 107.073, 107.110, 112.199, 121.149, 140.091	Hintner, H. Paracelsus Medical University	h.hintner@salk.at	108.118
Herbert, C. University of California, San Diego	cherbert@ucsd.edu	157.026	Hirschler-Guttenberg, Y. Bar-Ilan University	yael.hirschler@live.biu.ac.il	139.070
Herbert, M. Massachusetts General Hospital	mherbert1@partners.org	107.080, 111.188	Hirsh-Pasek, K. Temple University	khirshpa@temple.edu	159.120
Herguner, A. Meram Faculty of Medicine	arzu_samur@yahoo.com	157.048	Hirtz, D. National Institute of Neurological Disorders and Stroke	hirtzd@ninds.nih.gov	154.002
Herguner, S. Meram Faculty of Medicine	cocukergen@yahoo.com	157.048	Hiruma, L. University at Albany, SUNY	lhiruma@albany.edu	120.119, 137.005
Hermens, F. K.U. Leuven	frouke.hermens@ppw.kuleuven.be	138.029	Hisama, F. University of Washington	fmh2@u.washington.edu	109.138
Hernandez, J. Massachusetts Institute of Technology	javierhr@mit.edu	129.030	Hithersay, R. University College London	ros_hithersay@hotmail.co.uk	139.047
Hernandez, L. Brain Mapping Center, University of California, Los Angeles, University of California, Los Angeles	leannahernandez@ucla.edu	107.082, 146.004, 164.007	Ho, J. University of California, Los Angeles	jennifer.ho.1987@gmail.com	139.063
Hernandez, N. INSERM U930	nadia.hernandez@univ-tours.fr	142.175	Ho, J. Robert Wood Johnson Medical School	accuttle@gmail.com	105.001
Heron, J. School of Social and Community Medicine, University of Bristol	Jon.Heron@bristol.ac.uk	148.002	Hobson, J. A. Institute of Child Health, UCL	j.hobson@ich.ucl.ac.uk	139.047
Herpertz-Dahlmann, B. University Hospital Aachen	bherpertz-dahlmann@ukaachen.de	111.190	Hobson, P. University College London and Tavistock Clinic, London	r.hobson@ich.ucl.ac.uk	139.047
Herr, M. University of North Carolina	matt.herr@unc.edu	121.149	Hock, R. University of South Carolina	Roberth@sc.edu	123.200
Herrington, J. Children's Hospital of Philadelphia	herringtonj@email.chop.edu	106.027, 107.097, 151.004, 157.034, 160.143	Hodgens, J. B. University of Alabama at Birmingham	bhodgens@uab.edu	131.084
Hertz-Picciotto, I. University of California, Davis	iher@ucdavis.edu	109.134, 118.066, 118.074, 118.078, 118.080, 118.081, 118.082, 118.086, 121.152, 128.006, 128.008, 157.045	Hodges, R. CARES	robin911@aol.com	158.106
Herzog, M. University of Missouri	herzogm@missouri.edu	131.079, 161.181	Hodgetts, S. University of Alberta	sandra.hodgetts@ualberta.ca	123.208, 123.211
			Hodgson, N. Northeastern University	hodgson.n@neu.edu	108.116, 108.119

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Hoffenberg, S. Marcus Autism Center: Children's Healthcare of Atlanta	sara.hoffenberg@choa.org	161.182	Hu, V. George Washington University	bcmvwh@gwumc.edu	108.121, 109.151
Hoffman, K. University of North Carolina	katehoff@email.unc.edu	121.160	Huang, N. Wellcome Trust Sanger Institute	nh3@sanger.ac.uk	109.150
Hogan-Brown, A. Northwestern University	abigail.brown@u.northwestern.edu	117.059, 138.002	Huang-Storms, L. Children's Medical Center Dallas	lark.huang-storms@childrens.com	160.146
Holbrook, H. Children's Hospital Boston	hannah.holbrook@childrens.harvard.edu	157.032	Hubbard, E. Vanderbilt	edhubbard@gmail.com	111.196
Holbrook, S. University of Western Ontario	sholbro@uwo.ca	105.020	Hudgings, L. University of Washington	tl_hudgings@comcast.net	109.138
Holcombe, J. Marcus Autism Center and Children's Healthcare of Atlanta	Jade.Holcombe@choa.org	132.121	Hudry, K. Olga Tennison Autism Research Centre	k.hudry@latrobe.edu.au	117.016, 142.179, 159.113
Holden, J. University of North Carolina	jamesonholden@unc.edu	153.002	Huerta, M. Weill Cornell Medical College	huertam@umich.edu	158.063
Holden, J. J. Queen's University	holdenj@queensu.ca	117.018, 166.002	Huffman, L. Stanford University School of Medicine, Children's Health Council	lhuffman@chconline.org	114.008
Hollier, L. Telethon Institute for Child Health Research, University of Western Australia	lauren.hollier@uwa.edu.au	104.003	Hughes, A. University of Pittsburgh	alliejhughes@gmail.com	137.007
Hollocks, M. Institute of Psychiatry, King's College London	matthew.hollocks@kcl.ac.uk	158.066	Hughes, C. Vanderbilt University	carolyn.hughes@vanderbilt.edu	131.097
Hollway, J. The Ohio State University	Jill.Hollway@osumc.edu	133.199	Hughes, K. University of Missouri - Thompson Center for Autism and Neurodevelopmental Disorders	hugheskl@health.missouri.edu	120.120, 122.165
Holt, R. Autism Research Centre, University of Cambridge	rh465@cam.ac.uk	107.068, 107.086, 107.103, 140.096	Huizink, A. VU University Amsterdam	a.c.huizink@vu.nl	157.055
Hong, H. Georgia Institute of Technology	honghwajung@gmail.com	129.011	Hulsey, T. Medical University of South Carolina	hulseytc@musc.edu	118.089
Hong, J. Waisman Center, University of Wisconsin-Madison	johnhg@waisman.wisc.edu	142.180	Humble, M. Uppsala University Hospital	mats.humble@gmail.com	117.025
Hong, Y. George Washington University School of Medicine and Health Sciences	bcmyxh@gwumc.edu	109.151	Hume, K. Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill	hume@fpg.unc.edu	114.005, 131.087, 132.137, 132.151
Hoogenhout, M. University of Cape Town	michellehoog@gmail.com	132.113	Humphrey, A. Autism Research Centre, University of Cambridge	Ayla.Humphrey@cpft.nhs.uk	142.172
Hopkins, J. University of California, Los Angeles	jmlhopkins@gmail.com	139.063	Humphrey, N. University of Manchester	neil.humphrey@manchester.ac.uk	165.004
Horder, J. Institute of Psychiatry, King's College London	jamie.horder@kcl.ac.uk	107.107	Humphreys, B. P. University of New Hampshire	ephum@email.unc.edu	123.194
Horev, G. Cold Spring Harbor Laboratory	ghorev@cshl.edu	104.004	Hundley, R. Vanderbilt University	rachel.j.hundley@vanderbilt.edu	117.037, 145.004
Horner, P. L. California State University, Los Angeles	phorner@uci.edu	159.118	Hunt, J. Children's Specialized Hospital	jhunt@childrens-specialized.org	132.115
Hornig, M. The Mailman School of Public Health, Columbia University	mh2092@columbia.edu	154.002	Hunter, J. Oklahoma Medical Research Foundation	Jerrold-Hunter@ouhsc.edu	108.124
Hottinger, K. Albert Einstein College of Medicine	kate.hottinger@gmail.com	158.099	Hurewitz, F. Drexel University	fdh23@drexel.edu	160.148
Hou, Y. Chia-Yi Chritian Hospital	c151@cych.org.tw	159.126	Hurles, M. Wellcome Trust Sanger Institute	meh@sanger.ac.uk	109.150
Hougaard, D. Statens Serum Institute	DH@ssi.dk	104.002, 118.067	Hus, V. University of Michigan	vhus@umich.edu	117.005, 158.063
Houghton, K. Lancaster University	kathoughton@taconic.net	132.108	Hussein, U. Seattle Pacific University	hussseu@spu.edu	142.206
Howe, Y. Hasbro Children's Hospital, Brown Alpert Medical School	yhowe@lifespan.org	117.026	Hutchins, T. University of Vermont	tiffany.hutchins@Uvm.edu	160.176
Howley, D. Institute of Psychiatry, King's College London	deirdre.howley@kcl.ac.uk	119.107, 123.202	Hutchison, S. University of Victoria	smh@uvic.ca	140.094
Howlin, P. Institute of Psychiatry, King's College London	patricia.howlin@kcl.ac.uk	147.004, 158.066	Hutman, Ph.D, T. University of California, Los Angeles	hutman@ucla.edu	130.033, 136.004, 137.001, 142.210, 159.142
Hrynchak, M. A. Royal Columbian Hospital	Monica.Hrynchak@fraserhealth.ca	166.002	Hutsler, J. University of Nevada Reno	jhutsler@unr.edu	110.173
Hsin, O. Children's Hospital of Philadelphia	ohsin2002@gmail.com	157.035	Hyde, K. McGill University, International Laboratory for Brain Music and Sound (BRAMS)	krista.hyde@mcgill.ca	140.110, 140.113, 140.114
Hsu, N. Purdue University	nih0706@gmail.com	129.026	Hyman, S. University of Rochester School of Medicine	susan_hyman@urmc.rochester.edu	122.186, 154.004

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
<b>I</b>					
Iacono, T. La Trobe University	T.Iacono@latrobe.edu.au	132.111	James, S. J. University of Arkansas for Medical Sciences	jamesjill@uams.edu	110.175, 118.082, 133.159, 133.170, 133.187
Iakoucheva, L. University of California San Diego	lilyak@ucsd.edu	109.166, 126.006	Jamison, R. University of Kansas Medical Center	rjamison@kumc.edu	131.073
Iao, L. University of Hong Kong	llsi@hku.hk	138.009	Jänsch, C. University of Manchester	claire.g.handley@gmail.com	138.010
Iarocci, G. Simon Fraser University	giarocci@sfu.ca	138.032, 140.094, 158.064, 161.178	Jankowski, K. University of Oregon	kathrynj@uoregon.edu	107.078
Ibanez, L. University of Washington	libanez1@uw.edu	117.031, 160.161, 160.172	Janus, M. Offord Centre for Child Studies, McMaster University	janusm@mcmaster.ca	135.006
IBIS Network, A. UW, UNC, WASTL, CHOP	tstjohn@u.washington.edu	141.147	Janvier, Y. Children's Specialized Hospital	yjanvier@childrens-specialized.org	122.172, 128.001
Ibrahim, K. University of Hartford	kibrahim@hartford.edu	133.197	Jaquess, D. Emory University School of Medicine, Marcus Autism Center	david.jaquess@choa.org	157.016, 157.018, 157.019
Ildring, S. Karolinska Institutet	selma.idrizbegovic@ki.se	118.077, 121.148, 122.170	Jarrold, W. UC Davis	wjarrold@ucdavis.edu	147.003
Inada, N. National Institute of Mental Health, National Center of Neurology and Psychiatry	n-inada@ncnp.go.jp	117.006, 132.123, 140.095	Javier, M. University of California, San Diego	mcjavier@gmail.com	152.002
Ingersoll, B. Michigan State University	ingers19@msu.edu	123.197, 132.117, 132.126, 160.153	Jelenic, P. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	patricia.jelenic.hrdp@ssss.gouv.qc.ca	142.201
Ingram, A. University of South Carolina	alexdotcom77@gmail.com	161.189	Jenner, W. Medical University of South Carolina	jennerw@musc.edu	114.002, 118.089, 122.177
Iosif, A. University of California Davis	aiosif@ucdavis.edu	118.066, 152.008	Jerger, S. University of Texas at Dallas	sjerger@utdallas.edu	133.178
Isenhowe, R. Rutgers University	risenhow@rci.rutgers.edu	140.109	Jeste, S. UCLA Center for Autism Research and Treatment	sjeste@mednet.ucla.edu	111.181, 111.182, 130.033
Ishihara, M. UNIFESP	makatsumi@gmail.com	138.003	Ji, X. University of Pennsylvania	jixiao@seas.upenn.edu	166.003
Ishizuka, A. Department of Radiology, Koujin Hospital	a-ishi@sc4.so-net.ne.jp	107.106	Jiang, M. Nankai University	chongyingwang@nankai.edu.cn	139.040
Isotani, S. UNIFESP	selmaisotani@gmail.com	138.003	Jiang, Y. Robert Wood Johnson Medical School	Yiqin.Jiang@williams.edu	105.001
Ito, H. Hamamatsu University School of Medicine	ito_hiroyuki@pd5.so-net.ne.jp	142.177, 159.128, 160.165	Jiang, Y. Duke University	yong-hui.jiang@duke.edu	104.007
Itoh, M. National Center of Neurology and Psychiatry	itoh@ncnp.go.jp	110.176	Jitina, K. University of Calgary	katia.jitina@gmail.com	139.054, 141.146, 161.205
Iverson, J. M. University of Pittsburgh	jiverson@pitt.edu	136.002, 137.001, 142.209	Jivraj, J. University of Alberta	jivraj.jamil@gmail.com	120.118
Iwanaga, R. Nagasaki University	iwanagar@nagasaki-u.ac.jp	117.041	Jobin, A. B. University of California, San Diego	ajobin@ucsd.edu	132.127
Iwasaki, M. Asperger Society Japan	mika-up@hotmail.co.jp	131.060	Joel, S. Johns Hopkins School of Medicine, Kennedy Krieger Institute	sejoel@mri.jhu.edu	106.034, 106.040
Iwata, K. Hamamatsu University School of Medicine	iwata-k@hama-med.ac.jp	157.021, 157.023	Johns, K. UT Health Sciences Center at Houston	Katherine.M.Johns@uth.tmc.edu	159.118
Iwata, Y. Hamamatsu University School of Medicine	iwata@hama-med.ac.jp	152.003	Johnsen, K. HAVE Dreams	kjohnsen@havedreams.org	120.124, 120.137, 123.190
<b>J</b>			Johnson, A. The University of Western Ontario	ajohnson@uwo.ca	120.125
Jack, S. McMaster University	jacksm@mcmaster.ca	133.167	Johnson, B. Macquarie University	blake.johnson@maccs.mq.edu.au	107.070, 111.186
Jackson, M. The Help Group - UCLA Autism Research Alliance	michellejackson0322@gmail.com	117.050	Johnson, H. Bath University	H.Johnson@bath.ac.uk	141.151
Jacobs, S. McMaster University	sjacobs@mcmaster.ca	108.130	Johnson, J. Rush University Medical Center	jason_johnson@rush.edu	131.069, 161.197
Jacques, S. Dalhousie University	sophie.jacques@dal.ca	141.164	Johnson, L. University of Minnesota	chaf0032@umn.edu	102.006, 114.005, 120.128
Jain, A. The Lewin Group	anjali.jain@lewin.com	121.161, 122.185, 133.208	Johnson, M. H. Centre for Brain and Cognitive Development, Birkbeck, University of London	mark.johnson@bbk.ac.uk	111.194, 138.007, 139.052, 141.136, 158.081
Jain, N. UMDNJ-RWJMS	jainnj@umdnj.edu	118.091	Johnson, M. Newcastle University	m.johnson@ncl.ac.uk	121.157
Jalbrzikowski, M. University of California, Los Angeles	mjalbrzikowski@gmail.com	139.063			
James, J. Arkansas Children's Hospital Research Institute	jamesjill@uams.edu	134.003			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Johnson, S. University of California, Los Angeles	scott.johnson@ucla.edu	136.004, 142.210, 159.142	<b>K</b>	Kaale, A. Oslo University Hospital	anett.kaale@r-bup.no 114.007
Johnson, S. A. Dalhousie University	shannon.johnson@dal.ca	158.062		Kaat, A. Nisonger Center	aaron.kaat@osumc.edu 158.089
Johnson, S. Weill Cornell Medical College	sbjohnson1@gmail.com	129.001, 129.003		Kaiser, M. Yale University	martha.kaiser@yale.edu 106.048, 106.057, 127.003, 164.002, 164.004
Johnson, W. UMDNJ-RWJMS	wjohnson@umdnj.edu	166.004		Kaiser, M. University of Miami	myale@miami.edu 121.161
Johnston, K. Kings College London, Institute of Psychiatry	k.johnston@iop.kcl.ac.uk	155.009		Kakooza, A. Makerere University, School of Medicine	akakooza@chs.mak.ac.ug 150.001
Johnston, K. Simon Fraser University	khj@sfu.ca	138.032, 158.064		Kalb, L. Kennedy Krieger Institute	Kalb@kennedykrieger.org 123.203, 123.216, 158.069, 158.080, 161.198
Johnston, P. King's College London	patrick.johnston@kcl.ac.uk	106.031		Kalkbrenner, A. University of Wisconsin at Milwaukee	kalkbren@uwm.edu 121.160
Johnstone, K. Illinois State University	johnstkm@purdue.edu	129.026		Kamara, D. Seattle Children's Research Institute	dana.kamara@seattlechildrens.org 132.118, 159.122
Jonakait, G. M. New Jersey Institute of Technology	Jonakait@andromeda.rutgers.edu	108.129		Kamio, Y. National Institute of Mental Health, National Center of Neurology and Psychiatry	kamio@ncnp.go.jp 117.006, 132.123
Jones, A. University of St Andrews	bd9@st-andrews.ac.uk	139.053		Kamps, D. University of Kansas	dkamps@ku.edu 131.073
Jones, C. University of Essex	crjones@essex.ac.uk	139.036, 141.145, 154.006		Kana, R. K. University of Alabama at Birmingham	rkana@uab.edu 106.037, 106.050, 106.062, 107.087, 164.001
Jones, D. Cardiff University	jonesd27@cf.ac.uk	107.109		Kanan, C. UCSD	ckanan@cs.ucsd.edu 138.019
Jones, E. J. H. University of Washington	ejjones@u.washington.edu	132.118, 141.136, 159.122		Kanaris, H. St. Cadocs Hospital	hjkan_1999@yahoo.com 158.068, 161.203
Jones, H. The Summit Centre for Preschool Children with Autism	deschones@gmail.com	123.193, 132.124		Kang, H. Children's Hospital of Philadelphia	Kangh@email.chop.edu 138.005
Jones, J. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	jessica.jones@choa.org	135.002		Kang, S. University of California San Diego	ksl@ucsd.edu 109.166, 126.006
Jones, K. University of Missouri	KALZPD@mail.mizzou.edu	118.088, 118.087		Kanne, S. M. Baylor College of Medicine	smkanne@texaschildrens.org 116.008, 131.040, 141.165, 157.050, 158.069, 160.151
Jones, W. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	warren.jones@yale.edu	135.002, 138.025, 138.033, 138.023, 138.028, 140.117, 140.111, 140.108, 140.107, 142.203, 157.016		Kaparich, K. University of Colorado Denver	khightshoe@gmail.com 121.149
Joo, K. University of Hawaii at Manoa	noni1031@hanmail.net	142.202		Kaplan, L. Vanderbilt University	lauren.m.kaplan@vanderbilt.edu 131.097
Jordan, N. Northwestern University	neil-jordan@northwestern.edu	122.164		Kaplan, M. Center for Visual Management	CVMKAPLAN@aol.com 112.197, 133.185
Jorge, I. Rutgers University- Douglass Developmental Disabilities Center	eeedy@eden.rutgers.edu	133.201		Kapp, S. University of California, Los Angeles	kapp@ucla.edu 159.112
Jose, J. Indiana University	josev@iu.edu	140.109		Kappelhoff, H. Freie Universität Berlin	hermann.kappelhoff@fu-berlin.de 106.043
Joseph, B. Boston University	rmjoseph@bu.edu	107.080		Kara, B. Kocaeli Medical School	bulentkara@excite.com 121.144
Joseph, L. National Institute of Mental Health	jlisa@mail.nih.gov	159.132	Karahalios, K. University of Illinois at Urbana-Champaign	kkarahal@illinois.edu 132.110	
Joshi, R. Olga Tennison Autism Research Centre,	rjoshi@students.latrobe.edu.au	141.133	Karamagi, C. Makerere College of Health Sciences	ckaramagi2000@yahoo.com 150.001	
Jou, R. Yale University Graduate School of Arts & Sciences, Yale University, Child Study Center	roger.jou@yale.edu	107.105	Karlsson, C. Children's Hospital Colorado	cassie.karlsson@childrenscolorado.org 123.213	
Ju, G. University of Connecticut	gwanju@gmail.com	159.127	Karlsson, H. Johns Hopkins University School of Medicine	hakan.karlsson.2@ki.se 118.077	
Jung, J. Harvard Medical School	jj77@med.harvard.edu	126.008, 129.007	Karmel, B. New York State Institute for Basic Research in Developmental Disabilities	karmelgardner@gmail.com 130.035, 140.119	
Just, M. A. Center for Cognitive Brain Imaging, Carnegie Mellon University	just@cmu.edu	106.058, 146.002, 146.001	Karp, J. Eastman Institute for Oral Health	jeff_karp@urmc.rochester.edu 122.186	
Jyotishi, M. Hunter College	mjyotish@hunter.cuny.edu	117.047	Karras, M. NIMH/NIH	karrasmn@mail.nih.gov 105.002, 105.004	

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Karst, J. Marquette University	jeffrey.karst@marquette.edu	112.204, 131.046, 131.065	Kern, S. Boston University School of Medicine	skern@bu.edu	110.172
Kasari, C. UCLA	kasari@gseis.ucla.edu	114.004, 131.070, 132.119, 132.102, 132.104, 147.002, 159.138, 160.163	Kerns, K. University of Victoria	kkerns@uvic.ca	140.094
Kase, C. University of Pennsylvania	Ckase@sas.upenn.edu	132.154	Kerr, M. Dalhousie University	michellekerr@dal.ca	158.062
Kasmara, L. University of British Columbia	levina@interchange.ubc.ca	166.002	Kesir, M. Northeastern University	kesir.m@husky.neu.edu	108.116
Kates, W. SUNY Upstate Medical University	katesw@upstate.edu	139.063	Kester, L. University of Missouri	lebh27@missouri.edu	106.032, 140.121
Katz, T. University of Colorado	terry.katz@ucdenver.edu	129.008, 141.135,	Ketcheson, L. University of Michigan	lketches@umich.edu	133.202
Kauper, S. Children's Hospital of Philadelphia	kaupers@email.chop.edu	157.033 145.004, 160.151	Khan, A. HMS/BWH	alaptaginkhan@hotmail.com	108.127
Kaur, M. University of Connecticut	mandy_kamboj@yahoo.com	129.017, 132.152, 132.143, 132.136, 159.133, 159.127, 161.196	Khan, A. San Diego State University	jewell924@hotmail.com	106.038
Kavaliers, M. University of Western Ontario	kavalier@uwo.ca	105.020, 105.023	Khan, S. Massachusetts General Hospital	sheraz@nmr.mgh.harvard.edu	107.080
Kay, B. University of Connecticut	bruce.kay@uconn.edu	132.143	Khare, R. School of Planning and Architecture	khare_rachna@hotmail.com	120.122
Keefer, A. Kennedy Krieger Institute	keefers@kennedykrieger.org	158.069, 158.080	Khetrapal, N. Macquarie University	neha.khetrapal@mq.edu.au	142.196
Keehn, B. Children's Hospital Boston/ Harvard Medical School	brandon.keehn@childrens.harvard.edu	106.038, 107.075, 153.003	Khong, P. L. University of Hong Kong	cmgfung@hku.hk	107.093
Keelan, J. University of Western Australia	jkeelan@meddent.uwa.edu.au	104.003	Khawaja, M. Georgia State University	meenak621@aol.com	117.004
Keller, C. MIND Research Network	ckeller@mrn.org	157.052	Kidgell, D. Deakin University	dawson.kidgell@deakin.edu.au	112.215
Keller, T. A. Center for Cognitive Brain Imaging, Carnegie Mellon University	tk37@andrew.cmu.edu	106.058, 146.002	Kieser, M. Ruprecht-Karls University Heidelberg	meinhard.kieser@imbi.uni-heidelberg.de	131.067
Kellermann, J. Max Planck Institute for Biochemistry	kellerma@biochem.mpg.de	108.118	Kiguli, S. Makerere College of Health Sciences	skwalube@yahoo.co.uk	150.001
Kellett, J. University of South Carolina	jkelle2@ghs.org	123.200, 158.096	Kikuchi, Y. Japan Society for the Promotion of Science	yukko@darwin.c.u-tokyo.ac.jp	139.071, 142.211
Kelley, E. A. Queen's University	kelleyb@queensu.ca	117.036, 136.008, 141.137, 158.103, 159.116	Kilroy, E. Brain Mapping Center, University of California, Los Angeles	emily.kilroy@gmail.com	107.082, 164.007
Kelly, C. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	amclarekelly@gmail.com	106.036	Kim, E. Yale University School of Medicine	eliskim@cs.yale.edu	129.023
Kelly, D. Children's Specialized Hospital	DKelly@childrens-specialized.org	132.115	Kim, J. Georgia Institute of Technology	symple87@gmail.com	129.011
Kendall, P. Temple University	pkendall@temple.edu	151.002	Kim, N. Robert Wood Johnson Medical School - UMDNJ	namhkim@msn.com	106.054
Kenet, T. Massachusetts General Hospital	tal@nmr.mgh.harvard.edu	107.080	Kim, S. University of Pittsburgh	kimsg@pitt.edu	107.069
Kennedy, D. P. California Institute of Technology	kennedy@caltech.edu	107.079	Kim, S. H. University of Michigan Autism and Communication Disorders Center	sohkim@umich.edu	117.003, 117.011
Kennedy, K. Children's Hospital of Michigan	kkennedy2@dmc.org	131.044	Kimijima, M. University of Miami	m.kimijima@hotmail.com	161.179
Kent, R. Cardiff University	KentRG@Cardiff.ac.uk	107.109, 117.052, 117.051	Kincade, R. University of Washington	rkinc78@u.washington.edu	141.136
Kenworthy, L. Children's National Medical Center	lkenwort@cnmc.org	107.078, 109.159, 131.094, 139.074, 140.112, 141.170, 152.007, 158.108, 159.110	King, B. University of Washington and Seattle Children's Hospital	bhking@u.washington.edu	114.004
Keown, C. Brain Development Imaging Lab, San Diego State University	christopher.keown@gmail.com	106.038, 107.075	King, L. Medical University of South Carolina	kinglb@muscu.edu	114.002, 118.089, 122.177
Kerin, T. University of Southern California	tkerin@usc.edu	128.006	Kingston, H. M. S. Duchesne University	kingston@duq.edu	157.024
Kerkering, K. Carilion Clinic	kwkerkering@carilion.com	116.004	Kingstone, A. University of British Columbia	alan.kingstone@ubc.ca	138.032
Kern, J. Duquesne University	kern@mathcs.duq.edu	157.024	Kinsbourne, M. The New School for Social Research	KINSBOUM@newschool.edu	117.040
			Kinsella, A. University of Connecticut	alan.kinsella@uconn.edu	159.133
			Kinsman, A. Greenville Hospital System	akinsman@ghs.org	123.195, 123.200

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Kipke, M. Keck School of Medicine of USC	mkipke@chla.usc.edu	123.204	Koenig, K. New York University	kpk3@nyu.edu	133.172
Kirby, R. S. University of University of South Florida	rkirby@health.usf.edu	121.159	Kohler, A. University of Missouri	alk6df@mail.mizzou.edu	118.087
Kirchner, J. Freie Universität Berlin, Auticon	jennifer.kirchner@fu-berlin.de	138.034	Kohls, G. Children's Hospital of Philadelphia	KOHLSG@email.chop.edu	106.027, 111.190
Kiss, G. OHSU	geza.kiss@cslu.ogi.edu	117.058	Kolevzon, A. Mount Sinai School of Medicine	alexander.kolevzon@mssm.edu	103.008
Kittitharaphan, W.	drwiranpat@gmail.com	155.006	Kolind, S. Centre for Neuroimaging Sciences, King's College London	skolind@yahoo.ca	107.104
Kittler, P. M. New York State Institute for Basic Research in Developmental Disabilities	pkittler@gmail.com	130.035, 140.119	Koller, J. Yale University School of Medicine	judah.koller@yale.edu	138.001
Klaiman, C. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	cklaiman@chconline.org	114.008, 157.047	Komeda, H. Carnegie Mellon University	hkomeda@andrew.cmu.edu	106.055
Klauck, S. M. German Cancer Research Center (DKFZ)	s.klauck@dkfz.de	108.118	Kondo, A. Keio University	mix.my.feelings@gmail.com	132.112
Klei, L. University of Pittsburgh School of Medicine	kleilx@upmc.edu	109.150	Koning, C. Glenrose Rehabilitation Hospital	ckoning@ualberta.ca	119.110, 159.121
Klein-Tasman, B. P. University of Wisconsin, Milwaukee	bklein@uwm.edu	157.049	Konrad, K. University Hospital Aachen	kkonrad@ukaachen.de	111.190
Kliemann, D. Freie Universität Berlin	dorit.kliemann@fu-berlin.de	106.043	Koolen, S. Behavioural Science Institute, Radboud University Nijmegen	s.koolen@pwo.ru.nl	111.183, 111.184
Klin, Ph.D, A. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	ami.klin@yale.edu	116.003, 135.002, 138.023, 138.025, 138.028, 138.033, 140.107, 140.108, 140.111, 140.117, 142.203, 157.016, 159.140	Koot, H. M. VU University	JM.Koot@psy.vu.nl	160.156, 161.187
Klinepeter, E. University of Notre Dame	eklinepe@nd.edu	133.209	Kopald, B. MIND Research Network	bkopald@mm.org	157.052
Klinger, L. University of Alabama, TEACCH, University of North Carolina School of Medicine	lklinger@bama.ua.edu	112.208, 115.003, 115.005, 116.002, 139.043, 139.077, 141.149, 141.167	Kopelman, T. University of Iowa Children's Hospital	todd-kopelman@uiowa.edu	133.207
Klinger, M. R. University of Alabama, TEACCH, University of North Carolina School of Medicine	mklinger@bama.ua.edu	112.208, 115.003, 115.005, 116.002, 141.149, 141.167	Koppuzha, D. University of Florida	muehlman@ufl.edu	105.018
Kloes, K. Seattle Pacific University	kloesk@spu.edu	142.207	Korneluk, Y. Emerging Minds Treatment Centre	yolanda@emergingminds.ca	132.116
Kloos, H. University of Cincinnati	kloosa@ucmail.uc.edu	141.152	Korzeniewski, S. Wayne State Univ School of Medicine	skorzeni@med.wayne.edu	118.062
Klusek, J. University of North Carolina at Chapel Hill	jessica.klusek@unc.edu	117.023	Kosaka, H. University of Fukui	hirotaka@u-fukui.ac.jp	106.055
Knapp, L. Penn State University-Harrisburg	lmknapp@gmail.com	145.001	Koser, B. National Institute of Mental Health	brian.koser@nih.gov	117.011, 129.005
Knapp, V. Summit Academy	vmknapp@summitted.org	133.194	Koszttyo, K. Loyola University of Maryland	koszttyo@gmail.com	123.216
Knapp-Ines, K. University at Albany, SUNY	kknappines@albany.edu	120.119	Kotsopoulos, Sr., A. Technological Institute of Patras	lefkimi46@hotmail.com	131.088, 157.015
Knight, L. Indiana University of PA	laura.knight@iup.edu	122.175	Kotsopoulos, S. Day Centre for Children with Developmental Disorders	sotkot@hotmail.com	131.088
Knoch, K. University of Connecticut	kelley.knoch@gmail.com	140.111	Koupil, I. Stockholm University	ilona.koupil@chess.su.se	122.170
Knudsen, K. Soar Technology, Inc.	knudsen@soartech.com	161.197	Kourkoulou, A. Cardiff University	KourkoulouA@cardiff.ac.uk	117.052
Knutsen, J. University of Pennsylvania	dknutsen@dolphin.upenn.edu	139.064	Kouser, M. University of Texas Southwestern Medical Center	Mehreen.Kouser@utsouthwestern.edu	105.005
Ko, E. Hospital for Sick Children	esther.ko@sickkids.ca	119.112	Kover, S. University of Wisconsin, Madison Waisman Center	Kover@waisman.wisc.edu	159.117, 161.194
Koegel, L. University of California, Santa Barbara	lynnk@education.ucsb.edu	131.072, 132.099, 132.153	Kowalski, L. University of Michigan	Irkowals@umich.edu	137.008
Koegel, R. L. Department of Counseling, Clinical, & School Psychology, University of California Santa Barbara	koegel@education.ucsb.edu	131.072, 132.099, 132.133, 132.147, 132.153,	Koyama, K. Sound Choice Pharmaceutical Institute	kkoyama@avmbiotech.com	108.115
			Kraemer, B. SDSU	bkraemer@mail.sdsu.edu	131.066
			Krakiwiak, P. University of California, Davis	pkrakiwiak@ucdavis.edu	128.008
			Krantz, L. University of Missouri School of Medicine, Thompson Center for Autism and Neurodevelopmental Disorders	landon.krantz@gmail.com	122.165

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Krasno, A. University of California, Santa Barbara	akrasno@education.ucsb.edu	132.099	Laine, F. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	france_laine@hotmail.com	141.159
Kravis, B. Northwestern University	bretkravis2013@u.northwestern.edu	138.002	Lainhart, J. E. University of Utah	janet.lainhart@hsc.utah.edu	107.101, 125.001, 127.002, 137.007
Kravitz, D. NIMH, National Institutes of Health	kravitzd@mail.nih.gov	127.004	Lajonchere, C. Autism Genetic Resource Exchange	cmajonc@autismspeaks.org	118.079
Kresse, A. University of Washington	akresse@u.washington.edu	141.142, 153.006	Lake, J. Centre for Addiction and Mental Health, University of Toronto	johanna_lake@camh.net	137.004
Kretschmer, A. Technische Universitaet Dresden	kretschmer@psychologie.tu-dresden.de	142.190, 142.191	Lakoma, M. Harvard Pilgrim Healthcare Institute	Matthew_Lakoma@harvardpilgrim.org	121.158
Krigsman, A. Pediatric Gastroenterology Resources of New York	drkrigsman@autismgi.com	157.027	Lalor, G. The University of the West Indies	gerald.lalor@uwimona.edu.jm	118.064
Kronberg, E. University of Colorado Denver, Anschutz Medical Campus	eugene.kronberg@ucdenver.edu	107.073, 112.199	Lam, A. Hospital Authority	cmgfung@hku.hk	107.093
Krouch, T. Autism Ressource Center	tiphaine.krouch@ap-hm.fr	138.012	Lamb, D. Emory University	dlamb@emory.edu	136.007
Krueger, K. UCLA	kathryne.krueger@gmail.com	147.002	Lambert, B. University of Miami	blambert@psy.miami.edu	139.076, 161.179
Kuhle, J. University of Iowa Hospitals and Clinics	jennifer-kuhle@uiowa.edu	133.207	Lambrechts, A. City University London	Anna.Lambrechts.1@city.ac.uk	141.145
Kumar, J. University of Notre Dame	jkumar@nd.edu	133.209	Landa, R. Kennedy Krieger Institute	landa@kennedykrieger.org	106.034, 119.095, 121.149, 135.008, 137.001, 138.020, 140.084, 140.086, 141.153, 158.095, 160.155
Kumar, P. Penn State University	preeti203@gmail.com	145.001	Landers, A. Beth Israel Deaconess Medical Center and Harvard Medical School	amlander@bidmc.harvard.edu	133.200
Kuo, B. University of Windsor	benkuo@uwindsor.ca	120.126	Landry, O. Dalhousie University	olandry2@uwo.ca	141.164
Kuo, M. University of Alberta	melissa.kuo@ualberta.ca	119.109, 133.177	Lane, A. Ohio State University	lane.350@osu.edu	112.200
Kuo, S. The Johns Hopkins University School of Medicine	skuo8@jhmi.edu	139.079, 159.129	Lane, D. Rice University	lane@rice.edu	133.178
Kuroda, M. Shukutoku University	pr6m-krd@asahi-net.or.jp	117.006, 132.123, 140.095	Lane, R. University of Michigan Medical School	beckersl@med.umich.edu	112.212
Kuroki, T. National Hospital Organization Hizen Psychiatric Center	toshik@npsych.med.kyushu-u.ac.jp	121.154	Lang, R. Texas State University	russlang@txstate.edu	131.055
Kuschner, E. Children's National Medical Center	EKuschne@cnmc.org	140.112, 141.161, 154.004	Lange, A. Leiden University	a.m.c.m.j.g.lange@gmail.com	139.038
Kushki, A. Holland Bloorview Kids Rehabilitation Hospital	akushki@hollandbloorview.ca	107.092, 158.065	Lange, N. Harvard University	nlange@hms.harvard.edu	107.101, 127.002
Kuzniewicz, M. Kaiser Permanente Division of Research	Michael.W.Kuzniewicz@kp.org	128.005	Lange, R. Phyllis Green and Randolph Cöwen Institute for Pediatric Neuroscience	rebecca.lange@nyumc.org	154.005
Kveim Lie, K. The Norwegian Institute of Public Health	karikveim.lie@fhi.no	154.002	Langen, M. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	m.langen@umcutrecht.nl	107.108
Kwok, E. University of Western Ontario	ekwok5@uwo.ca	111.192	Langleben, D. University of Pennsylvania	langlebe@mail.med.upenn.edu	138.015
Kwong, A. K. The University of Hong Kong	kkyanna@hku.hk	109.149	Larryant, B. University of British Columbia	blarryant26@gmail.com	138.032
<b>L</b>			Larsen, E. MindSpec Inc.	eric@mindspec.org	109.139
Laakman, A. Baylor College of Medicine	allaakma@texaschildrens.org	116.008, 157.050	Larsen, N. Statens Serum Institute	nla@ssi.dk	118.067
LaCava, P. Rhode Island College	placava@ric.edu	131.043	Larson, M. Brigham Young University	michael_larson@byu.edu	112.214, 153.005
Lacey, E. The Johns Hopkins University School of Medicine	elacey1@jhmi.edu	139.079, 159.129	LaRue, R. Rutgers University-Douglas Developmental Disabilities Center	larue@rci.rutgers.edu	133.201
Ladd-Acosta, C. Johns Hopkins School of Public Health	claddac1@jhmi.edu	166.001	Lau, E. Tsan Yuk Hospital	lautke@ha.org.hk	109.144
LaGamma, E. New York Medical College	EDMUND_LAGAMMA@NYMC.EDU	105.025			
Lai, J. McMaster University	laijky@mcmaster.ca	108.130			
Lai, M. Autism Research Centre, University of Cambridge	mc145@cam.ac.uk	106.052, 152.004, 152.005			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Lau, Y. University of Hong Kong	laulung@hku.hk	109.144	Lee, E. Rady Children's Hospital	elee@casrc.org	120.130
Laugeson, E. UCLA Semel Institute for Neuroscience & Human Behavior	elaugeson@mednet.ucla.edu	117.050, 131.068, 131.074, 131.083, 132.134, 132.138, 159.112, 161.191, 161.193	Lee, G. University at Buffalo, SUNY	glee4@buffalo.edu	131.063
Lavender, T. J. Institute of Psychiatry, King's College London	tom.lavender@iop.kcl.ac.uk	107.107	Lee, J. University of California, Los Angeles	j_lee37@yahoo.com	142.210
Laviola, G. Istituto Superiore di Sanità	giovanni.laviola@iss.it	133.192	Lee, J. University of Iowa	john-f-lee@uiowa.edu	133.207
Lavoy, R. University of Missouri	reld54@mail.missouri.edu	157.028	Lee, J. University of Miami	jlee1@med.miami.edu	117.043
Law, J. K. Kennedy Krieger Institute	lawk@kennedykrieger.org	118.090, 123.206, 137.003	Lee, K. Hanshin University	debkslee@hanmail.net	142.202
Law, N. The Hospital for Sick Children	nicole.law@sickkids.ca	107.099	Lee, L. Johns Hopkins Bloomberg School of Public Health	lle2@jhsp.edu	103.001, 117.028, 121.149, 121.150, 121.156, 122.188, 133.179, 138.017, 142.204
Law, P. Kennedy Krieger Institute	lawp@kennedykrieger.org	103.003, 118.090, 122.167, 123.206, 137.003, 148.004, 166.007	Lee, S. M. Massachusetts Institute of Technology	sumeilee@gmail.com	107.080
Lawer, L. University of Pennsylvania	llawer@upenn.edu	122.185, 133.208	Lee, S. University of Rochester School of Medicine & Dentistry	susan_lee@urmc.rochester.edu	106.065
Lawlor, B. Prometheus Research, LLC	ben@prometheusresearch.com	129.001, 129.002, 129.003	Lee, T. National Chengchi University	tdtdt@nccu.edu.tw	132.107, 132.141
Lawson, K. Albert Einstein College of Medicine	krlawson@aecom.yu.edu	158.099	Lee, V. McMaster University	leev9@mcmaster.ca	140.085
Lawson, R. Loyola University	rlawson@loyola.edu	159.110	Leekam, S. Cardiff University	LeekamSR@cardiff.ac.uk	107.109, 116.007, 117.051, 117.052, 138.009, 158.068, 161.203
Lawton, K. UCLA	Kathy.Lawton@ucla.edu	132.102, 132.104	Leew, S. Society for Treatment of Autism	shirley.leew@albertahealthservices.ca	133.188
Lazar, S. Bucknell University	sml024@geisinger.edu	117.035, 141.124	Lehman, J. Carnegie Mellon University	jill@kidaccess.com	106.026, 127.001
Lázaro, L. Hospital Clínic de Barcelona, CIBERSAM	llazaro@clinic.ub.es	107.102	Leigh, M. J. UC Davis MIND Institute	maryjacena.leigh@ucdmc.ucdavis.edu	133.173
Lazkoz, I. GAUTENA Autism Society	ingelazkoz@gautena.org	129.025	Leiguarda, R. FLENI	rleiguarda@fleni.org.ar	106.035
Le, L. Center for Autism Research, Children's Hospital of Philadelphia	lel@email.chop.edu	115.008	Leinert, S. University of Missouri	smlhf2@mail.mizzou.edu	131.079
Le, N. University of California, Los Angeles	nancyble@gmail.com	159.142	Leitman, S. Weill Cornell Medical College/ NY Presbyterian Hospital	leitmans@gmail.com	132.109
Leadbitter, K. University of Manchester	kathyleadbitter@hotmail.com	142.179	Lennon, E. M. New York State Institute for Basic Research in Developmental Disabilities	elennon509@aol.com	130.035, 140.119
LeBarton, E. University of Pittsburgh	eal48@pitt.edu	142.209	Lenroot, R. University of New South Wales	lenrootr@mail.nih.gov	107.088, 107.096
Lebersfeld, J. Northwestern University	JennaLebersfeld2012@u.northwestern.edu	117.059	Lenti, C. Child Neuropsychiatry, Univ. of Milan	carlo.lenti@unimi.it	157.040
LeBlanc, B. University of Washington	brittanyleblanc@gmail.com	160.150	Leon, O. Sheba Medical Center	odelialeon@gmail.com	165.002
Lebovitz, S. Phyllis Green and Randolph Cöwen Institute for Pediatric Neuroscience	sblebovitz@gmail.com	158.079	Leonard, H. Goldsmiths, University of London	hayleyleonard@gmail.com	157.057
Lecavalier, L. Ohio State University	luc.lecavalier@osumc.edu	158.089	Lepage, C. Sutter Neuroscience Medical Group	calepage@gmail.com	157.043, 157.044, 160.173
Leckman, J. Yale University	james.leckman@yale.edu	164.008	Lepore, F. Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal	franco.lepore@umontreal.ca	141.132
Ledbetter, D. H. Geisinger Health System	dhledbetter@geisinger.edu	117.035, 126.003, 4 141.12	Lera, S. Hospital Clínic de Barcelona	slera@clinic.ub.es	141.148
Ledoux, K. Johns Hopkins University School of Medicine	kledoux1@jhmi.edu	160.158	Leitch, J. P. The Hospital for Sick Children	jason@phenogenomics.ca	104.008, 105.003, 107.091, 107.092
Lee, B. Drexel University School of Public Health	bkleee@drexel.edu	118.077, 118.071, 121.148, 166.001	Lerner-Geva, L. The Gertner Institute, Tel Aviv University	Liattl@gertner.health.gov.il	165.002
Lee, C. Signal Analysis and Interpretation Laboratory (SAIL), University of Southern California	chiclee@usc.edu	129.024	Leseman, P. Utrecht University	P.P.M.Leseman@uu.nl	159.130
Lee, D. McMaster University	dj.lee0330@gmail.com	133.205	Letovsky, S. SynapDx Corporation	sletovsky@synapdx.com	109.134

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Letzen, J. Children's Hospital of Philadelphia	letzenj@email.chop.edu	139.067	Liebaert, F. IntegraGen SA	francois.liebaert@integragen.com	126.002
Leung, R. Hospital for Sick Children, University of Toronto	rachel.leung@sickkids.ca	106.046	Liederma, J. Boston University	liederma@bu.edu	141.154
Leuthe, E. JFK Partners – University of Colorado Denver	Eileen.Leuthe@ucdenver.edu	141.135, 160.151	Lierheimer, K. University of Missouri	ksif83@mail.missouri.edu	131.040
Levenseller, B. University of Pennsylvania School of Nursing	brookele@nursing.upenn.edu	121.149	Lim, X. Y. National University of Singapore	a0075275@nus.edu.sg	158.072
Levin, E. Duke Institute for Brain Sciences	edlevin@duke.edu	105.014	Liming, H. Seattle Pacific University	limingh@spu.edu	142.206, 158.083
Levine, M. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	michelle.levine@choa.org	136.003	Lin, C. University of Pennsylvania	chiaolin@pcbi.upenn.edu	166.003
Levitt, P. Keck School of Medicine, University of Southern California	plevitt@usc.edu	107.082	Lin, C. E. UC Santa Barbara	bchristi@education.ucsb.edu	158.061
Levy, D. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	Dana.Levy@nyumc.org	106.036	Lin, D. Harvard Medical School	david_lin@hms.harvard.edu	138.023
Levy, E. Boston University	ezraredlevy@gmail.com	110.174	Lin, G. N. University of California San Diego	g1lin@ucsd.edu	109.166, 126.006
Levy, S. Children's Hospital of Philadelphia/ University of Pennsylvania	levys@email.chop.edu	117.010, 118.062, 118.092, 137.002	Lin, L. Robert Wood Johnson Medical School	linl1@umdnj.edu	105.001
Levy, S. E. Children's Hospital of Philadelphia	levys@email.chop.edu	103.001, 121.149	Lin, Y. University of New Mexico	elaine28097503@gmail.com	133.160
Lewine, J. D. MIND Research Network	jlewine@mrn.org	157.052	Lincoln, A. J. Alliant International University; Center for Autism Research, Evaluation and Service	alincoln@alliant.edu	119.101, 158.106
Lewis, C. Lancaster University	c.lewis@lancaster.ac.uk	132.108	Lindgren, S. University of Iowa Hospitals and Clinics	scott-lindgren@uiowa.edu	133.207
Lewis, G. University of Bristol	glyn.lewis@bristol.ac.uk	128.004	Lindsay, A. University of Colorado Denver School of Medicine	adam.lindsay15@gmail.com	140.091
Lewis, M. University of Florida	marklewis@ufl.edu	105.018	Lipkin, W. I. The Mailman School of Public Health, Columbia University	wil2001@columbia.edu	154.002
Lewis, M. Robert Wood Johnson Medical School - UMDNJ	lewis@umdnj.edu	106.054	Lit, L. University of California, Davis	llit@ucdavis.edu	133.186
Lewis, P. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	peter.lewis@choa.org	138.033, 142.203	Little, L. University of North Carolina at Chapel Hill	littlel@email.unc.edu	102.008
Lewis, S. M. University of British Columbia	sume@interchange.ubc.ca	166.002	Liu, F. The Hospital for Sick Children	fang.liu@sickkids.ca	107.099
Li, H. Kanazawa University	hiukeili@gmail.com	142.184	Liu, K. Paul F. Lazarsfeld Center for the Social Sciences, Columbia University	kayuet@gmail.com	118.076
Li, H. York University	hongyan@yorku.ca	105.017, 108.128, 109.156	Liu, X. Queen's University	liux@queensu.ca	166.002
Li, I. Calo Hospital	bonniebeckham@gmail.com	117.028, 138.017, 142.204	Livermore-Hardy, V. Great Ormond Street Hospital	vaan.livermore-hardy@gosh.nhs.uk	131.064, 158.088
Li, L. Centre for Paediatric Epidemiology and Biostatistics, UCL Institute of Child Health	l.li@ich.ucl.ac.uk	154.002	Lloyd, C. University of Arkansas at Little Rock	ecloyd@ualr.edu	137.006
Li, X. New York State Institute for Basic Research in Developmental Disabilities	xiaohongli99@gmail.com	108.111, 108.120, 110.169	Lloyd, W. University of Aberdeen	w.lloyd@abdn.ac.uk	106.049
Lian Cavanagh, A. Children's Hospital Boston	alys.cavanagh@childrens.harvard.edu	116.008, 157.050	Lobmaier, J. S. Universität Bern	janek.lobmaier@psy.unibe.ch	106.049
Libero, L. University of Alabama at Birmingham	lel123@uab.edu	106.062, 107.087, 164.001	Lock, D. University of California, San Diego	dlock6@gmail.com	111.179
Libertus, K. Johns Hopkins School of Medicine, Kennedy Krieger Institute	klaus.libertus@jhu.edu	140.086	Locke, C. Auburn University	cri0014@auburn.edu	119.098
Lichtenstein, P. Karolinska Institute	Paul.Lichtenstein@ki.se	107.081, 128.002	Locke, J. University of Pennsylvania	jill.locke@gmail.com	120.130, 162.002
Lidstone, J. Cardiff University	lidstonej@cardiff.ac.uk	158.068, 161.203	Logan, S. L. Medical University of South Carolina	logans@muscc.edu	114.002, 122.177
			Loh, A. Surrey Place	alvin.loh@surreyplace.on.ca	145.004
			Lombardo, M. Autism Research Centre, University of Cambridge	ml437@cam.ac.uk	104.002, 106.052, 152.004, 152.005, 164.005
			Londono Tobon, A. Stanford University	londono@stanford.edu	118.079
			Longard, J. C. P. Dalhousie University	jlongard@dal.ca	132.150, 139.044

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Loomis, J. Center for Children with Special Needs	jloomis@autismct.com	155.011	Lunsky, Y. Centre for Addiction and Mental Health	yona_lunsky@camh.net	119.106, 119.100, 123.205, 131.057, 137.004
Loomis, R. Yale School of Medicine	rebecca.loomis@yale.edu	142.178, 142.183	Luo, R.	luoruicd@gmail.com	109.150
Lopata, C. Institute for Autism Research, Canisius College	lopatac@canisius.edu	131.063	Luong-Tran, C. Children's National Medical Center	CLuongTr@cnmc.org	131.094
Lopes, V. Queen's University	5vl8@queensu.ca	120.138	Lurmann, F. Sonoma Technology, Inc.	fred@sonomatech.com	128.006
Lopez, B. Marcus Autism Center & Children's Healthcare of Atlanta	briana.lopez@choa.org	133.193, 133.195	Lutsky, M. Kaiser Permanente Division of Research	marta.a.lutsky@kp.org	121.158
Lopez, K. University of Michigan	klopez@umich.edu	122.163	Luyster, R. Harvard Medical School/ Children's Hospital Boston	rhiannon.luyster@childrens.harvard.edu	130.031, 139.051, 153.003
Lopez, L. University of California, San Diego	llopez@ucsd.edu	109.136	Luz, S. University College of London	sofia.luz.11@ucl.ac.uk	140.118
Lopez, M. University of Arkansas for Medical Sciences	mayaliza@aol.com	137.006	Luzzi, C. Memorial Children's Hospital of South Bend, IN	cluzzi@memorialsb.org	141.152
Lopez-Rangel, E. University of British Columbia	elopez@cw.bc.ca	166.002	Ly, M. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	mly3@emory.edu	140.108
Lord, C. Weill Cornell Medical College	celord@umich.edu	103.005, 106.036, 114.004, 117.003, 117.005, 117.014, 132.109, 133.211, 140.106, 154.005, 158.063, 162.001	Ly-Mapes, O. Eastman Institute for Oral Health, University of Rochester Medical Center	oriana_ly@urmc.rochester.edu	122.186
Lorenz, J. New York Presbyterian Hospital-Columbia University Medical Center	jl1084@columbia.edu	118.092, 118.062	Lyall, K. Harvard School of Public Health, University of California, Davis, MIND Institute	klyall@hsph.harvard.edu	118.073, 118.074, 122.168, 157.045
Lorenzi, J. Virginia Tech	lorenzi@vt.edu	116.004, 138.013	Lynch, F. Kaiser Permanente Center for Health Research	Frances.Lynch@kpchr.org	121.158
Lov, B. McMaster University	lorvb@mcmaster.ca	133.204	Lyneham, H. Macquarie University, Sydney Australia	heidi.lyneham@mq.edu.au	114.001
Losh, M. Northwestern University	losh@med.unc.edu	117.023, 117.059, 138.002	Lynn, K. Northwestern University	katherine-lynn@northwestern.edu	138.002
Lotspeich, L. Stanford University	Linda.Lotspeich@stanford.edu	118.079	Lyons, G. University of Wisconsin-Madison	glyons@wisc.edu	131.081
Lottspeich, F. Max Planck Institute for Biochemistry	lottspei@biochem.mpg.de	108.118	Lyons, K. University of Illinois	kristin.l.lyons@gmail.com	132.110
Lou, Y. The Hospital for Sick Children	youliang.lou@sickkids.ca	109.143, 109.157			
Louwerse, A. Erasmus MC - Sophia's Children's Hospital	s.c.louwerse@erasmusmc.nl	157.055	<b>M</b>		
Louwerse, S. Erasmus MC - Sophia's Children's Hospital	s.louwerse@erasmusmc.nl	103.006, 138.011, 158.091, 158.107	Mabbott, D. The Hospital for Sick Children	don.mabbott@sickkids.ca	107.099
Loveland, K. University of Texas Medical School, Houston	katherine.a.loveland@uth.tmc.edu	117.053, 118.064, 133.178	Macari, S. Yale University School of Medicine	suzanne.macari@yale.edu	117.015, 138.001, 138.031, 139.066, 139.075, 144.001, 144.002, 144.003, 144.004, 160.159
Low, R. Sutter Neuroscience Medical Group	lowrj@sutterhealth.org	157.043, 160.173	Macchiavello, G. Center for Pervasive Developmental Disorders, AOB	giulia.macchiavello@virgilio.it	159.125
Lowe, J. University of California, Los Angeles	jklowe@ucla.edu	109.150, 109.155	MacDonald, M. I.	megan.macdonald@oregonstate.edu	160.170
Lowy, R. T. University of Washington	rlowy@uw.edu	138.004	MacDonnell, E. Yale University	erin.macdonnell@yale.edu	106.051
Lu, Y. Keck School of Medicine of USC	yalu@chla.usc.edu	123.204	Mace, H. Cerebra Centre for Neurodevelopmental Disorders, University of Birmingham	hxm788@bham.ac.uk	138.014
Luckenbaugh, D. National Institute of Mental Health	luckenbd@mail.nih.gov	159.132	MacFabe, D. F. University of Western Ontario	dmacfabe@uwo.ca	105.020, 105.021, 105.022, 105.024, 105.023, 105.025
Ludlow, A. K. Anglia Ruskin University	amanda.ludlow@anglia.ac.uk	164.005	Machalick, W. University of Oregon	wmachali@uoregon.edu	131.081, 131.055, 165.007
Ludwig, N. Georgia State University	natashaludwig@gmail.com	116.006	MacIntyre, N. UC Davis School of Education	nsmcintyre@ucdavis.edu	147.003
Lukens, C. Children's Hospital of Philadelphia	LUKENS@email.chop.edu	157.019	MacKenzie, H. Wired Fox Publications	wiredfox@mymts.net	131.085
Lundberg, M. Karolinska Institutet	michael.lundberg@ki.se	122.170, 128.004	Mackiewicz, C. University of Florida	cmm616@ufl.edu	105.012
Lung, F. Taipei City Hospital	DAT01@tpech.gov.tw	117.028, 138.017, 142.204	Mackintosh, V. H. University of Mary Washington	vmackint@umw.edu	121.140

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
MacLeod, K. Isaak Walton Killam Hospital	kathryne.macleod@iwbk.nshealth.ca	123.209, 123.210	Mandy, W. University College London	w.mandy@ucl.ac.uk	117.054, 131.064, 140.105, 148.001, 148.002, 154.007, 158.088, 165.003
MacMullin, J. A. York University	jenmacm@yorku.ca	119.106	Manente, C. Rutgers University- Douglass Developmental Disabilities Center	christopher.manente@rutgers.edu	133.201
Madden, J. Harvard Pilgrim Healthcare Institute	Jeanne_Madden@harvardpilgrim.org	121.158	Mangan, S. Claremont Graduate University	susan.a.mangan@gmail.com	160.154
Maddox, B. Virginia Polytechnic Institute and State University	bmaddox7@vt.edu	158.060, 158.076	Manjiviona, J. The University of Melbourne	janine.m007@optusnet.com.au	118.070, 160.145
Madduri, N. Vanderbilt University	nirupama.madduri@vanderbilt.edu	145.004	Mann, A. University of Nevada Reno	alexi.mann@unr.edu	110.173
Mademtzi, M. University of Birmingham	marilmadem@gmail.com	129.014	Manning, C. Centre for Research in Autism and Education, Institute of Education	c.manning@ioe.ac.uk	141.130
Madsen, G. University of Southern Denmark	gitte.madsen@ouh.regionsyddanmark.dk	111.177	Manning, P. Cincinnati Children's Hospital Medical Center	patty.manning@cchmc.org	154.003
Madva, E. Children's Hospital of Philadelphia	MadvaE@email.chop.edu	106.027	Mannino, V. UONPIA - IRCCS Foundation Ca' Granda, Ospedale Maggiore Policlinico, Milan, Italy	valeria.mannino@virgilio.it	155.013
Maenner, M. Waisman Center, University of Wisconsin-Madison	mjmaenner@wisc.edu	121.159, 122.188, 140.083, 142.180	Mano, Y. Northwestern University	y-mano@northwestern.edu	106.055
Magana, S. University of Wisconsin-Madison	magana@waisman.wisc.edu	122.163, 165.007	Manoach, D. S. Harvard Medical School, Massachusetts General Hospital	dara@nmr.mgh.harvard.edu	157.032
Magiati, I. National University of Singapore	psyim@nus.edu.sg	158.072	Mansdorf, E. Hofstra University	emansdorf@gmail.com	133.171
Magill-Evans, J. University of Alberta	joyce.magill-evans@ualberta.ca	119.109, 119.110	Mansour, R. University of Texas Medical School	Rosleen.Mansour@uth.tmc.edu	133.178
Magnus, P. Norwegian Institute of Public Health	per.magnus@fhi.no	118.084, 154.002	Manuel, K. Autism Ontario	karen@autismontario.com	123.212
Magnusson, C. Karolinska Institutet	cecilia.magnusson@ki.se	118.077, 121.148, 122.170, 128.004	Manzi, B. Child Neuropsychiatry Unit, Univ. Campus Bio-Medico	b.manzi@unicampus.it	157.040
Mahendra, A. Boston University School of Medicine	mahendra.arjun@gmail.com	105.014	Mao, R. Stanford University, Stanford University	rmao@stanford.edu	104.005
Mahjouri, S. Weill Cornell Medical College	saaram@gmail.com	131.070	Maras, A. Yulius	A.Maras@yulius.nl	131.054, 158.107
Mailloux, Z. Pediatric Therapy Network	zoem@ptnmail.org	132.115	Maraventano, J. Rutgers University-Douglass Developmental Disabilities Center	jmara@rci.rutgers.edu	133.201
Mak, H. University of Hong Kong	cmgfung@hku.hk	107.093	Marcaillou, C. IntegraGen SA	Charles.Marcaillou@integragen.com	126.002
Mak-Fan, K. M. Hospital for Sick Children	katie@psych.utoronto.ca	107.100, 107.091	Marin, M. Universidad Rafael Urdaneta	maryandre_sf@hotmail.com	161.202
Makeig, S. University of California, San Diego	smakeig@ucsd.edu	111.179	Marinero, S. University of California, San Diego	marinero.steven@gmail.com	107.084
Makia, B. Johns Hopkins School of Public Health	bmakia@jhsp.edu	133.179	Marinova-Todd, S. University of British Columbia	stefka@audiospeech.ubc.ca	161.177
Makovi, K. R. Columbia University	km2730@columbia.edu	118.076	Marion, R. Albert Einstein College of Medicine	rwmarion@aol.com	109.163
Makuch, R. Waisman Center, University of Wisconsin-Madison	MAKUCH@Waisman.Wisc.Edu	142.180	Marjoram, D. University of Glasgow	dominic@vegware.co.uk	107.090
Malchiodi-Albedi, F. Istituto Superiore di Sanità	fioremalchiodi@gmail.it	133.192	Marko, M. Johns Hopkins University	molliemarko@gmail.com	140.097
Malcolm-Smith, S. University of Cape Town	susanmalcolmsmith@gmail.com	132.113	Marnane, D. Autism Speaks	dmarnane@autismspeaks.org	113.003
Malik, M. New York State Institute for Basic Research in Developmental Disabilities	Mazhar.Malik@omr.state.ny.us	108.111, 108.120, 110.169	Marquardt, M. University of Missouri - Thompson Center for Autism and Neurodevelopmental Disorders	mwmxdd@mail.missouri.edu	109.165
Malow, B. A. Vanderbilt Medical Center	beth.malow@vanderbilt.edu	145.004	Marsh, K. University of Connecticut	kerry.marsh@uconn.edu	129.017, 132.136, 132.143
Maltezos, S. The Maudsley Hospital	Stefano.Maltezos@iop.kcl.ac.uk	107.107, 155.009	Marshall, J. The Lewin Group	Jaclyn.marshall@lewin.com	121.161, 122.185, 133.208
Malvy, J. INSERM U930	j.malvy@chu-tours.fr	112.211, 132.145	Martell, S. University of British Columbia	sallyubc@interchange.ubc.ca	166.002
Manangan, C. Seattle Pacific University	cmanang@spu.edu	139.069, 158.083	Marti, C. National Institute of Mental Health	ciara.marti@nih.gov	159.132
Mandal, M. UMDNJ - Graduate School of Biomedical Sciences	mandalmi@umdnj.edu	105.008			
Mandell, D. S. University of Pennsylvania Perelman School of Medicine, Children's Hospital of Philadelphia, Center for Autism Research	mandell@mail.med.upenn.edu	119.099, 120.130, 132.154, 137.003, 137.002, 162.004			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Martien, K. Lurie Center for Autism, Massachusetts General Hospital	kmartien@mac.com	111.188	Maxwell, C. Children's Hospital of Philadelphia	crmaxwell@gmail.com	111.190
Martin, A. NIMH	alexmartin@mail.nih.gov	127.004, 152.007, 159.110	Maybery, M. University of Western Australia	murray@psy.uwa.edu.au	104.003, 139.037, 142.186
Martin, A. Yale University	alia.martin@yale.edu	164.002	Maye, M. University of Michigan Autism and Communication Disorders Center (UMACC), University of Massachusetts - Boston	mpmaye@umich.edu	119.093, 119.108, 133.211
Martin, M. National Institute of Mental Health	michael.martin2@nih.gov	117.011	Mayer, J. Goldsmiths College, University of London	j.mayer@gold.ac.uk	140.101
Martin, T. St. Amant Research Centre, University of Manitoba	tmartin@stamant.mb.ca	120.131	Mayes, L. Yale Child Study Center	linda.mayes@yale.edu	111.195, 112.209, 130.036
Martineau, J. INSERM U930	j.martineau@chu-tours.fr	112.211, 142.175	Mayfield, W. A. University of Missouri	mayfieldw@missouri.edu	123.206
Martinez, O. University of Miami	oskr_mart@yahoo.com	161.179	Mayo, J. University of Connecticut	jessica.mayo@gmail.com	160.168
Martinez Cerdeno, V. University of California, Davis	vmartinezcerdeno@ucdavis.edu	110.171	Mayo, M. University of California, San Diego	mais8199@gmail.com	152.002
Martinez-Pedraza, F. University of Massachusetts, Boston	fdl_martinez@yahoo.com	119.108, 119.093, 133.211	Mazefsky, C. University of Pittsburgh	mazefskyc@upmc.edu	137.007, 157.030
Martini, T. Brock University	tmartini@brocku.ca	120.126	Mazur, S. University of Notre Dame	smazur1@nd.edu	133.209, 138.006
Marvin, A. R. Kennedy Krieger Institute	marvin@kennedykrieger.org	118.090, 123.206	Mazurek, M. University of Missouri	mazurekm@missouri.edu	117.001, 158.069, 160.151
Masaki, L. Children's Health Council	lmasaki@chconline.org	114.008	Mazurek, M. O. University of Missouri - Columbia	mazurekm@missouri.edu	122.165, 131.040
Maski, K. Children's Hospital Boston	kiran.maski@childrens.harvard.edu	157.032	Mazzone, L. Child Neuropsychiatry Unit, Department of Neuroscience, Bambino Gesù Children's Hospital, Rome, Italy	gigimazzone@yahoo.it	141.134, 155.013
Masry, F. Hunter College	fmasy@hunter.cuny.edu	117.047	McAleer, P. University of Glasgow	p.mcaleer@psy.gla.ac.uk	107.090
Massand, E. University of Washington	emassand@u.washington.edu	138.004	McAlonan, G. M. University of Hong Kong, Institute of Psychiatry, King's College London	mcalonan@hkucc.hku.hk	107.093, 107.094
Massolo, M. Kaiser Permanente Division of Research	Maria.L.Massolo@kp.org	121.142, 150.002	McAnally, M. University of Missouri	msmzqd@mail.mizzou.edu	118.087
Mastrogioseppe, M. University of Trento	m.mastrogioseppe-1@unitn.it	139.049	McAuliffe, M. NIH Center for Information Technology	matthew.mcauliffe@nih.gov	129.005
Mataric, M. J. University of Southern California	mataric@usc.edu	129.016	McBee, M. University of North Carolina at Chapel Hill	matt.mcbee@unc.edu	132.137
Matchullis, R. University of Calgary	ryan.match@gmail.com	139.054, 141.146, 161.205	McCabe, A. University of Massachusetts Lowell	allyssa_mccabe@uml.edu	138.035
Mathai, G. University of Louisville	g0math01@louisville.edu	131.045	McCalla, M. University of Alabama at Birmingham	kmcalla@uab.edu	131.084, 161.207, 161.195
Mathews, E. A. Oklahoma Medical Research Foundation	Ellie-Mathews@omrf.org	108.124	McCarthy, C. University of Western Ontario	cmccar4@uwo.ca	111.192
Mathy, P. Kennedy Krieger Institute	Mathy@kennedykrieger.org	161.198	McCarty, C. University of North Carolina at Chapel Hill	caro.mccarty@gmail.com	161.185
Matsuda, S. Keio University	atom.opens.the.stargate@gmail.com	138.026	McCary, L. University of South Carolina	lmmcdona@gmail.com	158.096
Matsui, T. Tokyo Gakugei University	matsui@u-gakugei.ac.jp	142.184	McCleery, J. University of Birmingham	j.p.mccleery@bham.ac.uk	111.187, 111.196, 130.034, 138.014
Matsumoto, K. Hamamatsu University School of Medicine	km@hama-med.ac.jp	107.106, 117.022, 152.003	McCloat, M. Autism Speaks and College of the Holy Cross	mmcc12@g.holycross.edu	123.201
Matsuzaki, H. Hamamatsu University School of Medicine	matsu-mdrc@umin.ac.jp	157.021, 157.023	McCloskey, D. College of Staten Island/CUNY	mccloskey@csi.cuny.edu	108.120
Mattard-Labrecque, C. Laval University	carolanne.mattard-labrecque.1@ulaval.ca	140.102	McComish, C. University of North Carolina	cara_mccomish@med.unc.edu	123.194
Mattes, E. Telethon Institute for Child Health Research	eugenm@chr.uwa.edu.au	104.003	McConachie, H. Newcastle University	h.r.mconachie@ncl.ac.uk	121.157
Matteson, P. G. Center for Advanced Biotechnology & Medicine	Matteson@CABM.rutgers.edu	104.006	McConnell, D. University of Alberta	david.mcconnell@ualberta.ca	123.208
Matthews, M. Waisman Center, University of Wisconsin-Madison	matthews.me@gmail.com	159.137	McConnell, R. University of Southern California	rmconne@usc.edu	128.006
Mattson, R. Auburn University	rem0003@auburn.edu	160.160	McCormick, T. IWK Health Centre	theresa.mccormick@iwk.nshealth.ca	132.150
Mattson, W. University of Miami	wimattson@gmail.com	161.179			
Maxim, MD, R. Saint Louis University	maximr@slu.edu	118.090			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
McCoy, P. UNC, UNC	portia@med.unc.edu	109.133	McLaughlin, J. Policy, Ethics and Life Sciences Research Centre, Newcastle University	Janice.McLaughlin@ncl.ac.uk	109.160
McCracken, C. UCLA	caitlin.mccracken@gmail.com	132.119	McLoughlin, G. Institute of Psychiatry, Kings College London	grainne.mcloughlin@kcl.ac.uk	158.081
McCracken, C. Emory University School of Medicine	courtney.mccracken@emory.edu	157.016	McMahon, W. M. University of Utah	william.mcmahon@hsc.utah.edu	121.147, 128.007
McCrimmon, A. University of Calgary	awmccrim@ucalgary.ca	139.054, 141.146, 161.205	McMichael, A. R. Washington University School of Medicine	amanda.mcmichael@gmail.com	107.069
McCullough, M. Children's Hospital of Philadelphia	mcculloughm@email.chop.edu	117.010	McMorris, C. A. York University	camcmorr@yorku.ca	117.018, 123.205, 141.125
McDaniel, J. Children's Hospital of Philadelphia	jonmcd33@gmail.com	107.085	McNally Keehn, R. Children's Hospital Boston, Harvard Medical School	rebecca.mcnally-keehn@childrens.harvard.edu	116.008, 117.037, 157.050
McDermott, M. Children's Hospital of Philadelphia	mcdermottm@email.chop.edu	138.005	McPartland, Ph.D, J. Yale Child Study Center	james.mcpartland@yale.edu	111.193, 111.195, 112.209, 112.213, 112.216, 130.036, 153.006, 153.007
McDonald, G. Marquette University	grand.mcdonald@mu.edu	112.204, 131.065, 131.046	McWilliams, R. Rutgers University	mcwilliams@aesop.rutgers.edu	118.091
McDonald, N. M. University of Miami	nmcdonald@psy.miami.edu	138.024	Meaux, E. INSERM U930	e.meaux@chu-tours.fr	111.191, 112.211
McDuffie, A. MIND Institute University of California, Davis	andrea.mcduffie@ucdmc.ucdavis.edu	131.081, 159.117, 161.194	Meck, W. Duke University	meck@psych.duke.edu	106.034
McEntee, M. Johns Hopkins University School of Medicine	mmcente3@jhmi.edu	139.079, 159.129	Meeking, M. University of Western Ontario	melissameeking@gmail.com	105.021
McEvoy, K. UCLA Center for Autism Research and Treatment	kmcevoy@ucla.edu	111.181, 130.033	Mehta, S. Semel Institute/UCLA	sqmehta@gmail.com	105.019
McEwen, F. Institute of Psychiatry, King's College London	f.mcewen@iop.kcl.ac.uk	140.118	Meichenbaum, D. Summit Educational Resources	dmeichenbaum@summitd.org	131.063
McFadden, K. University of Colorado Denver, Anschutz Medical Campus	Kristina.McFadden@ucdenver.edu	107.071, 112.199	Meimes, M. Federal University of Rio Grande do Sul	maira.meimes@gmail.com	159.131
McGettrick, O. Prometheus Research, LLC	owen@prometheusresearch.com	129.001, 129.002, 129.003	Meinzen-Derr, J. Cincinnati Children's Hospital Medical Center	jareen.meinzen-derr@cchmc.org	154.003
McGhee, S. University of Missouri	sdgfc@mail.mizzou.edu	131.079	Melbourne-Chambers, R. The University of the West Indies	roxhmc@yahoo.com	156.014, 157.056
McGillivray, J. Deakin University	jane.mcgillivray@deakin.edu.au	106.063, 112.215, 118.070, 160.145	Melgard, L. Statens Serum Institute	LMG@ssi.dk	104.002
McGlone, F. Liverpool John Moores University	F.P.McGlone@ljamu.ac.uk	164.004	Melnick, M. University of Rochester	mmelnick@gmail.com	106.065
McGoldrick, V. Children's Hospital of Philadelphia	mcgoldrickvm@email.chop.edu	137.002	Melnyk, S. University of Arkansas for Medical Sciences	melnykstepanb@uams.edu	110.175, 118.082, 133.187
McGonigle, D. Schools of Biosciences/ Psychology, Cardiff University	mcgonigled@cf.ac.uk	107.109, 117.052	Mendez, M. Institute of Psychiatry, King's College London	maria.mendez@kcl.ac.uk	107.107, 122.183, 154.008
McGrew, J. H. Indiana University - Purdue University Indianapolis	jmcgrew@iupui.edu	165.005	Menghini, D. U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù	menghinideny@gmail.com	141.134
McIntosh, D. University of Denver	daniel.mcintosh@du.edu	140.091	Mennes, M. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	mennes.maarten@gmail.com	106.036
McIntosh, R. University of Edinburgh	r.d.mcintosh@ed.ac.uk	115.006	Menon, D. Kennedy Krieger Institute - Center for Autism & Related Disorders	menon@kennedykrieger.org	157.017
McKavanagh, R. University of Oxford	rebecca.mckavanagh@st-annes.ox.ac.uk	107.095	Menvielle, E. Children's National Medical Center	emenviel@cnmc.org	158.108
McKay, L. S. Netherlands Institute for Neuroscience	lawrie@psy.gla.ac.uk	107.090	Mephram, J. University of Western Ontario	jenmephram@gmail.com	105.021, 105.024
McKeague, I. W. Columbia University	im2131@columbia.edu	118.084, 128.003	Mercure, E. Institute of Cognitive Neuroscience, University College London	e.Mercure@bbk.ac.uk	111.194, 158.081
McKee, K. Seattle Pacific University	mckee@spu.edu	139.073, 142.207	Merikangas, A. Trinity College Dublin	merikana@tcd.ie	143.003
McKibbin, K. A. McMaster University	mckib@mcmaster.ca	133.167	Merwin, S. Kennedy Krieger Institute	merwin@kennedykrieger.org	138.020
McKigney, A. M. St Cadoc's Hospital	AnneMarie.McKigney@wales.nhs.uk	161.203	Messinger, D. S. University of Miami	dmessinger@miami.edu	117.031, 137.001, 138.024, 139.068, 139.076, 160.172, 160.161, 161.179
McKigney, A. St Cadoc's Hospital	AnneMarie.McKigney@wales.nhs.uk	158.068			
McKinley, C. University of Missouri, Columbia	crmgfc@mail.missouri.edu	107.077			
McKown, C. Rush University Medical Center	Clark_A_McKown@rush.edu	161.197			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Metaxas, D. Rutgers University	dnm@cs.rutgers.edu	140.109	Minshew, N. University of Pittsburgh	minshewnj@upmc.edu	106.026, 125.004, 127.001, 133.157, 157.030
Mevel, K. Karolinska Institute	katell.mevel@ki.se	107.081	Mintz, J. Marcus Autism Center & Children's Healthcare of Atlanta	Joslyn.Mintz@choa.org	133.198
Mevisen, L. RWTH Aachen University	Lea.Mevisen@rwth-aachen.de	106.047	Miralles, M. Children's Mercy Hospital and University of Missouri-Kansas City	memiralles@cmh.edu	109.164
Meyer, A. Marquette University	Audrey.Meyer@marquette.edu	112.204, 131.046, 131.065	Mire, S. University of Houston	sarahmire@gmail.com	117.042, 120.129
Meyer, B. F. King Faisal Specialist Hospital and Research Center	brian_meyer@kfshrc.edu.sa	109.142	Mirenda, P. University of British Columbia	pat.mirenda@ubc.ca	103.007, 123.209, 123.210, 133.213, 135.006, 136.001, 140.085, 141.138, 158.101, 161.177
Meyer, L. University of Wisconsin-Madison	lrmeyer3@wisc.edu	118.072, 140.098	Miron, L. The Summit Centre for Preschool Children with Autism	chotee@cogeco.ca	123.193
Meyer, S. Child Development Center at Maccabi Hod Hasharon, University of Haifa	sonyameyer.ot@gmail.com	117.009	Misra, M. Massachusetts General Hospital/ Harvard Medical School	mmisra@partners.org	154.001
Meyerer, S. Johns Hopkins Bloomberg School of Public Health	smeyerer@jhsp.edu	121.149	Missaoui, S. University of Monastir	missaouisonia@yahoo.fr	117.045
Mian, N. University of Massachusetts Boston	nickmian@gmail.com	119.093	Mitchell, E. University of Alabama at Birmingham	esher@uab.edu	131.084
Miceli, R. St. Clair College	micelirita@hotmail.com	123.193	Mitchell, P. University of Nottingham Malaysia Campus	Peter.Mitchell@nottingham.edu.my	142.195
Mich, C. Stanford University School of Medicine	csmich@stanford.edu	139.047	Mitchell, S. Hospital for Sick Children	shelleyjaym@rogers.com	119.112, 138.021
Michel, T. RWTH Aachen University	tmichel@ukaachen.de	106.047	Mitchell, T. UMMS Shriver Center	teresa.mitchell@umassmed.edu	131.041
Michels, M. Federal University of Rio Grande do Sul (UFRGS)	marcus_michels@hotmail.com	105.010	Miyachi, T. Nagoya City University Hospital	jupiter3@hama-med.ac.jp	117.022
Mihalik, A. University of Florida	amihalik@honors.ufl.edu	105.018	Miyamoto, S. University of Tsukuba	smiyamot@human.tsukuba.ac.jp	141.141
Miles, J. University of Missouri	milesjh@missouri.edu	106.032, 109.165, 140.121, 140.122, 141.169, 157.025, 157.037, 157.038	Mizuno, A. Center for Cognitive Brain Imaging, Carnegie Mellon University	amizuno@andrew.cmu.edu	106.058
Milham, M. P. Nathan Kline Institute for Psychiatric Research, Center for the Developing Brain	milham01@med.nyu.edu	106.036	Mochizuki, N. Hamamatsu University School of Medicine	naoto.soul.517@gmail.com	131.060
Millea, M. University of Notre Dame	mmillea@nd.edu	133.209	Moffitt, A. University of Missouri	moffitta@health.missouri.edu	106.032, 140.121
Miller, C. University of Texas Health Science Center San Antonio	millercs@uthscsa.edu	118.085	Mohapatra, L. University of Miami	moholeen@gmail.com	139.068
Miller, F. University of Toronto	fiona.miller@utoronto.ca	116.008, 117.014, 123.191, 123.192, 137.008, 157.050	Mohr, B. Anglia Ruskin University, MRC Cognition and Brain Sciences Unit, Free University of Berlin	Bettina.Mohr@anglia.ac.uk	164.005
Miller, J. Autism Genetic Resource Exchange	jmiller@autismspeaks.org	118.079	Moiyadi, A. University of Colorado Denver, Anschutz Medical Campus	ammar.moiyadi@ucdenver.edu	112.199
Miller, J. Children's Hospital of Philadelphia	judith.miller@hsc.utah.edu	128.007, 160.143	Molholm, S. Albert Einstein College of Medicine	sohpie.molholm@einstein.yu.edu	109.163
Miller, L. Colorado Dept of Public Health and Environment	lisa.miller@state.co.us	121.149, 121.150, 121.159	Monn, E. University of Minnesota	rudru005@umn.edu	102.006, 120.128
Miller, M. University of Victoria	mrm@uvic.ca	104.005, 138.019, 140.094	Montague, R. Seattle Children's	montar@spu.edu	114.004, 139.069
Miller, R. Seattle Pacific University	rosebear@spu.edu	139.069	Montgomery, J. University of Manitoba	montgom0@cc.umanitoba.ca	120.131, 131.085, 160.171
Millette, A. University of Florida	millette1991@hotmail.com	105.012, 105.013	Montiel-Nava, C. La Universidad del Zulia	ceciliamontiel@gmail.com	161.202
Millonig, J. H. Center for Advanced Biotechnology & Medicine, Neuroscience and Cell Biology, Robert Wood Johnson Medical School	Millonig@CABM.rutgers.edu	104.006, 105.001	Moody, E. University of Colorado, Denver	eric.moody@ucdenver.edu	140.091
Mills, A. Cold Spring Harbor Laboratory	mills@cshl.edu	104.004	Moore, D. Leeds Metropolitan University	D.Moore@leedsmet.ac.uk	129.013
Minjarez, M. B. Seattle Children's Hospital	mendy.boettcher@gmail.com	102.005	Moore, M. The University of Alabama	moore146@crimson.ua.edu	106.050
Minnes, P. Queen's University	patricia.minnes@queensu.ca	120.138	Morago, B. University of Missouri	bagth5@mail.missouri.edu	157.038
Minshawi, N. Indiana University School of Medicine	nminshaw@iupui.edu	131.056, 158.078	Moran, J. M. Massachusetts Institute of Technology	jmmoran@mit.edu	107.080

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Moreira, D. University Sao Paulo, Biosciences Institute	daniellemoreira@gmail.com	126.004	Mrug, S. University of Alabama at Birmingham	sylva@uab.edu	131.084
Morena De Luca, A. Geisinger Health System	amorenodeluca@geisinger.edu	117.035	Mrsall, M. E. University of Chicago Comer Children's Hospital	mmsall@peds.bsd.uchicago.edu	132.155
Moreno de Luca, A. Geisinger Health System	amorenodeluca@geisinger.edu	126.003, 141.124	Mucchetti, C. Semel Institute	cmucchetti@gmail.com	132.139, 147.002
Morgan, J. UC Davis M.I.N.D. Institute	jtmorgan61@gmail.com	110.170	Mueggler, T. F. Hoffmann-La Roche	Thomas.Mueggler@roche.com	108.114
Morgan, L. Florida State University	lindee.morgan@med.fsu.edu	160.166	Muehlmann, A. M. University of Florida	muehlman@ufl.edu	105.018
Mori, N. Hamamatsu University School of Medicine	morin@hama-med.ac.jp	107.106, 152.003, 157.021, 157.023	Mueller, U. University of Victoria	umueller@uvic.ca	140.094
Morin, K. University of Montreal, Perceptual Neuroscience Laboratory for Autism and Development (PNLab)	karine.morin.6@umontreal.ca	139.048	Mueller de Melo, G. Federal University of Rio Grande do Sul (UFRGS)	gabimelo42@gmail.com	105.010
Moriuchi, J. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	jennifer.moriuchi@emory.edu	138.025	Muench, K. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	kristin.muench@emory.edu	159.140
Moriwaki, A. National Institute of Mental Health, National Center of Neurology and Psychiatry	amoriwaki@ncnp.go.jp	117.006	Mukaddes, N. M. Istanbul University, Istanbul Faculty of Medicine	nmotavalli@yahoo.com	121.144
Morozov, A. Institute of Radio-Engineering and Electronics	a_o_p@mail.ru	112.201	Mukerji, C. Yale Child Study Center	cora.mukerji@yale.edu	111.193, 111.195, 112.209, 112.216, 130.036, 153.006, 153.007
Morris, D. SickKids Hospital	drew.morris@sickkids.ca	107.100	Mukerji, S. Creating Connections	shaneelm@gmail.com	121.151, 122.171
Morris, M. University of Alabama at Birmingham	mlmorris@uab.edu	107.087	Mulick, J. A. Nationwide Children's Hospital & The Ohio State University	mulick.1@osu.edu	145.001, 145.002
Morris, N. Case Western Reserve University	nathan.morris@case.edu	166.007	Mullen, G. P. Oklahoma Medical Research Foundation	Greg-Mullen@omrf.org	108.124
Morrow, E. Brown University	eric_morrow@brown.edu	117.026	Müller, R. San Diego State University	amueller@sciences.sdsu.edu	106.038, 107.075, 153.008
Mortensen, E. University of Copenhagen	elme@sund.ku.dk	118.067, 118.071	Müller-Remus, D. Auticon	dirk.mueller1210@web.de	138.034
Mosconi, M. W. University of Texas Southwestern Medical Center	Matt.Mosconi@UTSouthwestern.edu	106.041	Mullick, A. Georgia Institute of Technology	abir.mullick@gmail.com	120.122
Moseley, G. Yale University	gordon.moseley@yale.edu	112.216	Mulligan, A. McGill University	anjali.mulligan@mail.mcgill.ca	161.204
Moseley, R. MRC Cognition and Brain Sciences Unit	rachel.moseley@mrc-cbu.cam.ac.uk	164.005	Mullis, J. Cardiff & Vale University Health Board	julie.mullis@ntworld.com	158.068, 161.203
Moses, L. University of Oregon	moses@uoregon.edu	139.081	Mulloy, A. Virginia Commonwealth Univ	austinmulloy@gmail.com	131.055
Mosner, M. Children's Hospital of Philadelphia, Center for Autism Research	mosnerm@email.chop.edu	157.036	Muncer, S. Teesside University	s.muncer@tees.ac.uk	139.059
Moss, J. Cerebra Centre for Neurodevelopmental Disorders, University of Birmingham	j.f.moss@bham.ac.uk	138.014	Mundy, P. UC Davis	pcmundy@ucdavis.edu	117.021, 147.003, 160.156, 161.187
Mostofsky, S. H. Kennedy Krieger Institute, Johns Hopkins School of Medicine	mostofsky@kennedykrieger.org	106.033, 106.034, 106.040, 115.004, 140.097, 140.115, 142.205	Munesue, T. Kanazawa University	munesue@med.kanazawa-u.ac.jp	106.055
Mottron, L. Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	mottronl@star.ca	111.185, 115.001, 139.048, 140.093, 141.156, 141.158, 141.160, 141.132	Munger, K. Harvard School of Public Health	kmunger@hsph.harvard.edu	118.073
Mounts, M. University of South Carolina	mounts@email.sc.edu	161.189	Munson, J. University of Washington	jeffmun@u.washington.edu	157.031, 159.115
Mous, L. VU University	lrmous@gmail.com	160.156, 161.187	Muratori, F. University of Pisa - Stella Maris Scientific Institute	filippo.muratori@inpe.unipi.it	129.004, 132.103
Movsas, T. College of Human Medicine, Michigan State University	tmovsas@epi.msu.edu	118.062	Murin, M. Great Ormond Street Hospital for Children	murinm@gosh.nhs.uk	131.064
Moylan, A. University of Maryland	am20@umbc.edu	123.216	Murphy, C. King's College London, Institute of Psychiatry	clodagh.m.murphy@kcl.ac.uk	106.030, 106.031, 107.107, 122.183, 152.006, 154.008, 155.009
MRC AIMS Consortium, M. Institute of Psychiatry, London; University of Oxford; University of Cambridge, United Kingdom	MRCAIMS@kcl.ac.uk	152.004, 152.006	Murphy, D. Institute of Psychiatry, King's College London	Declan.Murphy@iop.kcl.ac.uk	106.030, 106.031, 107.104, 107.107, 119.107, 122.176, 122.183, 123.202, 127.008, 152.004, 152.006, 154.008, 155.009
			Murphy, I. Yale University, Child Study Center	isabella.murphy@yale.edu	107.105



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Murphy, L. ARC	lm525@medschl.cam.ac.uk	109.147	Nappa, R. Harvard University	mappa@wjh.harvard.edu	159.141
Murphy, M. A. University of Kentucky	maridd2@uky.edu	120.123	Narain, P. University of Texas Medical School	Punya.Narain@uth.tmc.edu	133.178
Murray, D. Cincinnati Children's Hospital Medical Center	donna.murray@cchmc.org	154.003	Narayanan, A. The Ohio State University, University of Missouri, Columbia	narayanan.32@osu.edu	107.077
Murray, M. Penn State Hershey	mmurray2@psu.edu	131.089	Narayanan, S. Signal Analysis and Interpretation Laboratory (SAIL), University of Southern California	shri@sipi.usc.edu	129.024
Musante, F. Center for Pervasive Developmental Disorders, AOB	filippo@chia.it	159.124	Narzisi, A. University of Pisa - Stella Maris Scientific Institute	antonio.narzisi@inpe.unipi.it	129.004, 132.103
Musch, H. JW Goethe University Frankfurt am Main	hannah.musch@kgu.de	117.019, 131.067	Nascimbeni, R. UNIFESP	redias@ig.com.br	138.003
Muschelli, J. Kennedy Krieger Institute, Johns Hopkins School of Public Health	jmuschel@jhsph.edu	106.033, 106.040	Nash, E. University of Notre Dame	enash@nd.edu	133.210
Muskat, B. Hospital for Sick Children	barbara.muskat@sickkids.ca	123.214	Nations, L. John P Hussman Institute for Human Genomics	lnations@med.miami.edu	117.043
Mussey, J. University of Alabama, JFK Partners, University of Colorado Denver	jlmussey@crimson.ua.edu	139.077	Navalta, T. Hunter College, City University of New York	tnavalta@hunter.cuny.edu	111.189
Myers, B. Virginia Commonwealth University	bmyers@vcu.edu	121.140	Navarro-Torres, C. University of Connecticut	christian.navarro-torres@uconn.edu	139.050
Myers, E. University of Washington	emily.myers@seattlechildrens.org	118.063	Navarta, S. Laboratorio de Neurociencia Integrativa, Physics Department	silnavarta@hotmail.com	106.035
Myers, S. Geisinger Health System	smyers1@geisinger.edu	117.035, 126.003, 141.124	Nawaz, F. University of Toronto Mississauga	fatima.nawaz@utoronto.ca	142.176, 157.039
Myrtetus, E. Drexel University	elizabeth.myrtetus@gmail.com	141.127	Nay, A. Saint Louis University	anay@slu.edu	118.090
<b>N</b>			Naymark, M. Hospital Italiano de Buenos Aires	murieal.naymark@hospitalitaliano.org.ar	109.141
Nader, A. Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), University of Quebec in Montreal	anne_nader@hotmail.com	142.201	Nazneen, N. Georgia Institute of Technology	nazneen@gatech.edu	129.009
Nadig, A. McGill University	aparna.nadig@mcgill.ca	159.139, 159.135, 160.149, 161.204	Neal, A. R. University of Texas	nealr@psy.utexas.edu	158.100
Naglieri, J. George Mason University	jnaglieri@gmail.com	103.002	Neal-Beevers, A. R. University of Texas at Austin	neal@psy.utexas.edu	139.078, 139.080, 158.104
Nahmias, A. University of Pennsylvania, Children's Hospital of Philadelphia, Center for Autism Research	asn2@sas.upenn.edu	132.154	Nebel, M. B. Kennedy Krieger Institute, Johns Hopkins School of Medicine	mb@jhmi.edu	106.040, 142.205
Naigles, L. University of Connecticut	letitia.naigles@uconn.edu	117.036, 136.008, 139.062, 139.050, 142.198, 142.196, 142.193, 159.123, 159.116	Necessary, C. Vanderbilt University School of Medicine	catherine.a.necessary@vanderbilt.edu	140.103
Nair, A. San Diego State University/ University of California, San Diego	anair@ucsd.edu	106.038, 107.075	Nederveen, H. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	H.Nederveen@umcutrecht.nl	107.108
Nakajima, S. Hamamatsu University School of Medicine	hi-fly@rouge.plala.or.jp	117.022	Neece, C. Loma Linda University	cneece@gmail.com	161.188
Nakamura, K. Hamamatsu University School of Medicine	nakamura@hama-med.ac.jp	107.106, 152.003	Nees, F. Central Institute of Mental Health	Frauke.Nees@zi-mannheim.de	106.059
Nanclares-Nogués, V. Advocate Illinois Masonic Medical Center	Valeria.Nanclares@advocatehealth.com	132.155	Nelson, C. Children's Hospital Boston/ Harvard Medical School	charles.nelson@childrens.harvard.edu	111.187, 117.030, 125.003, 130.031, 130.032, 130.037, 139.051, 153.003
Nankova, B. B. New York Medical College	bistra_nankova@nymc.edu	105.025	Nelson, K. City University of New York	KNelson@gc.cuny.edu	139.072
Naples, A. Yale Child Study Center	adam.naples@yale.edu	111.195, 111.193, 112.216, 112.209, 129.023, 130.036, 153.007, 153.006, 155.011	Nelson, K. Brigham Young University	middlediddle@gmail.com	141.168
Napolitano, D. A. University of Rochester Medical Center	deborah_napolitano@urmc.rochester.edu	133.194	Nelson, T. Harvard Medical School	tristan_nelson@hms.harvard.edu	129.007
			Nester, M. King Faisal Specialist Hospital and Research Center	nester@kfshrc.edu.sa	109.142
			Network, I. UW, UNC, WASTL, CHOP	kaupers@email.chop.edu	157.033
			Network, I. B. I. S. Autism Center of Excellence	IBISnetwork@gmail.com	107.067, 107.089, 135.001, 152.001
			Neuhaus, E. University of Washington	eneuhaus@u.washington.edu	112.203

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Neumark, E. Concordia University, Montreal Autism Centre	eneumark@autismcentre.org	158.090	Noordermeer, S. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	s.d.s.noordermeer@hotmail.com	107.108
Neumeyer, A. Massachusetts General Hospital/ Harvard Medical School	aneumeyer@partners.org	154.001	Nordahl, C. UC Davis MIND Institute	crswu@ucdavis.edu	109.153 152.008*
NeuroDevNet ASD Imaging Group	krista.hyde@mcgill.ca	140.110, 140.113, 140.114	Norona, A. UCLA Center for Autism Research and Treatment	amanda.norona@gmail.com	111.181, 111.182, 130.033
Neves, S. UMDNJ-New Jersey Medical School	nevessc@umdnj.edu	117.056, 141.162	North, S. University of Manitoba	snorth@live.ca	120.131
Newell, L. Indiana University of Pennsylvania	newell@iup.edu	122.175	Northrup, J. University of Pittsburgh	jbn12@pitt.edu	138.023, 142.203
Newman, T. Center for Children with Special Needs	tnewman@autismct.com	155.011	Norton, A. Beth Israel Deaconess Medical Center and Harvard Medical School	acnorton@bidmc.harvard.edu	133.200
Newschaffer, C. Drexel University School of Public Health	cnewscha@drexel.edu	118.071, 118.077, 118.078, 118.080, 118.082, 118.086, 121.149, 121.152, 121.161, 122.185, 133.208, 163.001, 166.001	Noseworthy, J. Montreal Children's Hospital	cathambly@gmail.com	159.111
Newsom, C. Vanderbilt University	cassandra.r.newsom@vanderbilt.edu	123.199, 127.007, 131.062	Nottke, C. Florida State University Autism Institute	charly.nottke@med.fsu.edu	103.005
Newton, T. Brigham Young University	newton.tiffani@gmail.com	141.168, 159.119	Novikova, S. NIMH	svetlana.novikova@nih.gov	129.005
Nešić, M. Faculty of Medicine, University of Niš	nesicmilkica532@gmail.com	158.068	Novikova, S. National Institute of Mental Health	novikovas@mail.nih.gov	107.072, 117.011
Nguyen, D. U.C. Davis	ucdnguyen@ucdavis.edu	121.152, 133.173	Nowell, K. University of Houston	kpnowell@texaschildrens.org	120.129, 141.165, 142.174
Nguyen, T. San Francisco State University	thnguyen510@gmail.com	160.172	Noyes- Grosser, D. New York State Department of Health, New York State Department of Health	Donna_Noyes_Grosser@alumni.umass.edu	123.198
Ni, L. New Jersey Institute of Technology	nli@andromeda.rutgers.edu	108.129	Noyes-Grosser, D. Bureau of Early Intervention, New York State Department of Health	dmn02@health.state.ny.us	123.196
Niccols, A. Hamilton Health Sciences Centre	NICCOLS@HHSC.CA	142.176, 157.039	Nunes, G. Federal University of Rio Grande do Sul (UFRGS)	00180141@ufrgs.br	105.010
Nicholas, D. B. University of Calgary	nicholas@ucalgary.ca	119.112, 120.118, 120.134, 123.208, 123.211, 123.214, 133.167	Nusrat, S. University of Calcutta	NusratSufia8@gmail.com	122.179, 139.061
Nicholas, J. S. Medical University of South Carolina	nicholjs@musc.edu	114.002, 118.089, 122.177	Nygren, G. Sahlgrenska University Hospital	gudrun.m.nygren@vgregion.se	117.008
Nichols, J. Medical University of South Carolina	nicholjs@musc.edu	122.188	Nørgaard-Pedersen, B. Statens Serum Institute	bnp@ssi.dk	104.002, 118.067
Nichols, S. ASPIRE Center for Learning and Development	drshananichols@gmail.com	133.171	<b>O</b>		
Nicholson, A. G. TRIAD, Vanderbilt Kennedy Center	amy.g.nicholson@vanderbilt.edu	158.098	O'Boyle, M. Texas Tech University	michael.oboyle@ttu.edu	112.198
Nick, T. University of Arkansas for Medical Sciences	TGNick@uams.edu	110.175	O'Connell, L. Queen's University	6ljo1@queensu.ca	141.137, 159.116
Nicolini, C. University of Trieste	nicolinichiaratn@gmail.com	104.001	O'Connor, I. McMaster University	occonoim@mcmaster.ca	122.180, 123.209, 123.210
Nicolson, R. University of Western Ontario	micolso@uwo.ca	111.192	O'Connor, K. University of Missouri	kav2mf@mail.missouri.edu	161.181
Nielsen, J. A. University of Utah	jared.nielsen@hsc.utah.edu	127.002	O'Hearn, K. Upmc.edu	ohearnk@upmc.edu	106.029
Nitzken, M. University of Louisville	mjnitz02@louisville.edu	107.083	O'Kelley, S. E. UAB Civitan-Sparks Clinics	sokelley@uab.edu	117.013, 161.183, 161.195, 161.207
Noble, H. TRIAD, Vanderbilt Kennedy Center	hylannoble@gmail.com	158.098	O'Loughlin, K. Yale University School of Medicine	kerry.oloughlin@yale.edu	138.031
Noda, W. Hamamatsu University School of Medicine	watarunoda@gmail.com	131.060, 142.177	O'Neale, M. Phyllis Green and Randolph Cöwen Institute for Pediatric Neuroscience	gunnerx3@yahoo.com	154.005
Noens, I. Parenting and Special Education Research Unit, Leuven Autism Research	Ilse.Noens@ppw.kuleuven.be	117.008, 158.087	O'Reilly, E. Harvard School of Public Health	poeor@channing.harvard.edu	118.073
Noens, I. L. K.U.Leuven, Massachusetts General Hospital, K.U. Leuven	ilse.noens@ped.kuleuven.be	138.027, 138.029	O'Reilly, M. The University of Texas at Austin	markoreilly@mail.utexas.edu	131.055
			Oakes, A. University of California, Davis	aoakes@ucdavis.edu	131.081, 161.194
			Oakes, L. University of Rochester	leonaooakes@gmail.com	133.194
			Obafemi-Ajayi, T. University of Missouri	ihimtay@gmail.com	157.038

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Oberleitner, R. Behavior Imaging Solutions	ron.oberleitner@behaviorimaging.com	129.009	Orehkova, E. V. Sahlgrenska University Hospital	elena@neuro.gu.se	112.201
Oberman, L. Beth Israel Deaconess Medical Center	loberman@bidmc.harvard.edu	111.196	Orinstein, A. University of Connecticut	alyssa.orinstein@uconn.edu	117.036, 136.008, 141.137, 159.116
Oberwelling, E. Leiden University	eoberwelling@googlemail.com	139.065	Orlich, F. University of Washington/Seattle Children's Hospital	felice.orlich@seattlechildrens.org	114.004, 131.070
Oblak, A. Boston University School of Medicine	aoblak@bu.edu	110.172	Orr, P. Geisinger Health System	ptorr@geisinger.edu	117.035, 126.003, 141.124
Odom, S. University of North Carolina	slodom@unc.edu	114.005, 131.087, 132.100, 132.142	Osanai, H. Musashino Higashi Gakuen	osanai@musashino-higashi.org	139.071, 142.211
Oerlemans, A. Donders Institute, Radboud University	a.oerlemans@donders.ru.nl	148.003	Ossenkopp, K. University of Western Ontario	ossenkop@uwo.ca	105.020, 105.023, 105.024
Ogston, P. Virginia Commonwealth University	ogstonpl@vcu.edu	121.140	Ostfeld-Etzion, S. Bar-Ilan University	sharon_os_et@yahoo.com	139.070
Ohashi, K. ABA Learning Centre	kaori@abacentre.ca	161.177	Ostmeyer-Kountzman, K. Virginia Tech	kfok@vt.edu	131.053, 138.013
Ohlsen, C. South London and Maudsley NHS Foundation Trust	chris.ohlsen@slam.nhs.uk	154.008	Oswald, D. Commonwealth Autism Service	doswald@vcu.edu	137.007
Ohnishi, M. Fukui University	okinawa1903@yahoo.co.jp	159.128, 160.165	Oswald, T. University of Oregon	toswald@uoregon.edu	139.081, 160.174
Ohtake, S. Hamamatsu University School of Medicine	satoko@plum.ocn.ne.jp	142.177, 159.128, 160.165	Oti, R. Seattle Children's Hospital and Research Institute	rosalind.oti@seattlechildrens.org	114.004
Oi, Ph.D, M. United Graduate School of Child Development, Osaka University, Kanazawa University, and Hamamatsu University School of Medicine	oimanabu@ed.kanazawa-u.ac.jp	142.184	Ott, M. Children's Hospital of Philadelphia	ottm@email.chop.edu	117.010
Okazawa, H. Biomedical Imaging Research Center	okazawa@u-fukui.ac.jp	106.055	Ou, J. UCLA	jingou@mednet.ucla.edu	109.150
Oksenberg, N. UCSF	nir.oksenberg@ucsf.edu	166.008	Ouchi, Y. Hamamatsu University School of Medicine	ouchi@hama-med.ac.jp	152.003
Oliveira, B. Instituto Nacional de Saúde Dra Ricardo Jorge	barbara.oliveira@insa.min-saude.pt	109.155	Ouhtit, A. Sultan Qaboos University	ouhtit@squ.edu.om	108.113, 132.120, 157.020
Oliveira, G. Hospital Pediátrico de Coimbra	guiomar@hpc.chc.min-saude.pt	109.155, 126.007	Quimet, T. McGill University, International Laboratory for Brain Music and Sound (BRAMS)	ouimet.to@gmail.com	140.110, 140.113, 140.114
Oliver, C. Cerebra Centre for Neurodevelopmental Disorders, University of Birmingham	c.oliver@bham.ac.uk	138.014	Owen-Smith, A. Kaiser Permanente Center for Health Research Southeast	Ashli.A.Owen-Smith@kp.org	121.158
Oliveras-Rentas, R. Ponce Center for Autism, Ponce School of Medicine and Health Sciences	neuropsicologiapr@gmail.com	142.171	Oyen, A. The Norwegian Institute of Public Health	asoyen@online.no	154.002
Ollendick, T. Virginia Polytechnic Institute and State University	tho@vt.edu	133.162, 158.059	Ozmen, M. Istanbul University	meralozmen@istanbul.edu.tr	121.144
Oller, D. K. University of Memphis	koller@memphis.edu	159.114	Ozonoff, S. UC Davis MIND Institute	sally.ozonoff@ucdmc.ucdavis.edu	118.079, 128.008, 137.001
Olson, J. University of Michigan Autism & Communication Disorders Center, Children's Hospital Boston/Harvard Medical Center	jendreolson@mac.com	116.008, 117.014, 155.008, 157.050	<b>P</b>		
Olu-Lafe, O. Boston University	flafe@bu.edu	141.154	Pabon, E. Ponce Center for Autism, Ponce School of Medicine and Health Sciences	emilypsyd@gmail.com	142.171
Omaiye, A. Seattle University	omaiyea@seattleu.edu	109.152	Pacey, L. K. University of Toronto	laura.pacey@utoronto.ca	105.015
Ong, A. National University of Singapore	amilyongyl@gmail.com	158.072	Padilla, Y. University of Iowa	yaniz-padilla@uiowa.edu	133.207
Ono, K. University of Miami, Psychology	kim.e.ono@gmail.com	117.021, 139.068	Pain, H. University of Edinburgh	helen@staffmail.ed.ac.uk	129.014, 129.015
Opden, Ph.D, D. Southwest Autism Research & Resource Center	dopenden@autismcenter.org	131.042, 131.086	Palilla, J. Brigham Young University	jm.palilla@gmail.com	158.073
Oram Cardy, J. The University of Western Ontario	joramcar@uwo.ca	111.192, 120.125, 142.192	Pallia, R. Hospital Italiano de Buenos Aires	roberto.pallia@hospitalitaliano.org.ar	109.141
Oranje, B. University of Copenhagen	b.oranje@cnsr.dk	111.177	Palmer, R. F. University of Texas Health Science Center San Antonio, University of Texas Health Science Center San Antonio	palmerr@uthscsa.edu	118.085
Orehkova, E. University of Gothenburg	elena@neuro.gu.se	107.072	Palmieri, M. Center for Children with Special Needs	mpalmieri@autismct.com	155.011

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Palucka, A. Centre for Addiction and Mental Health	anna_palucka@camh.net	123.205	Pathways in ASD Study Team, T. McMaster University	georgis@mcmaster.ca	123.210, 158.101
Pamment, L. Olga Tennison Autism Research Centre	l.pamment@latrobe.edu.au	159.113	Patrick, K. Drexel University	kristina.e.patrick@gmail.com	160.148
Pan, Z. Children's Hospital Colorado/ The University of Colorado at Denver and Health Sciences Center	Pan.Zhaoxing@tchden.org	133.164, 133.165	Patriquin, M. Virginia Tech	mpatriq@vt.edu	109.167, 116.004, 136.006
Panagiotakos, G. Stanford University	panagiog@stanford.edu	104.005	Patrycia, F. National University of Singapore	fpatrycia@gmail.com	158.072
Pandey, J. Children's Hospital of Philadelphia	pandeyj@email.chop.edu	159.120	Patten, E. UNC Greensboro	e_patten@uncg.edu	161.186
Paneth, N. College of Human Medicine, Michigan State University	paneth@epi.msu.edu	118.062, 118.092	Patterson, C. University of Alabama at Birmingham	cspatter@uab.edu	131.084
Pang, E. W. University of Toronto, The Hospital for Sick Children	epang@sickkids.ca	106.046, 107.074, 107.076	Patterson, S. University of California Los Angeles	sympatterson@ucla.edu	160.163
Paolicchi, J. Vanderbilt University Medical Center	juliann.paolicchi@vanderbilt.edu	112.202	Pattinson, C. Leeds Metropolitan University	c.pattinson@leedsmet.ac.uk	129.013
Papoudi, D.	dpapoudi@ecd.uoa.gr	119.114	Paul, L. K. California Institute of Technology	lkpaul@hss.caltech.edu	107.079
Pappu, K. HHMI/UCLA	kpappu@mednet.ucla.edu	105.019	Paul, R. Yale Child Study Center	rhea.paul@yale.edu	142.178, 142.183
Parab, S. Richmond University Medical Center	sparab@rumcsi.org	130.035	Pauls, D. L. Massachusetts General Hospital	dpauls@partners.org	158.087
Paradice, R. St David's Hospital	Ruth.Paradice@wales.nhs.uk	158.068, 161.203	Pauly, K. RWTH Aachen University, JARA Translational Brain Medicine	kpauly@ukaachen.de	106.047
Paradiso de Sayu, R. University of Wisconsin-Madison	rrparadiso@wisc.edu	165.007	Pavliv, O. University of Arkansas for Medical Sciences	pavlivoleksandra@uams.edu	110.175
Parish-Morris, J. University of Pennsylvania	julia.parish.morris@gmail.com	115.008, 138.005, 139.055, 139.067, 159.120, 159.123	Paynter, J. AEIOU Foundation, Mater Medical Research Institute	jessica.paynter@aeiou.org.au	132.106
Park, J. University of Connecticut	jinhee.g.park@gmail.com	139.062	Pearce, B. Rollins School of Public Health, Emory University	bpearce@emory.edu	118.067
Park, M. N. UCLA Semel Institute	minapark@education.ucsb.edu	131.072, 132.134	Pearl, A. Penn State Hershey	apearl@hmc.psu.edu	131.089
Park, O. Child and Adolescent Psychiatry, University of California, San Francisco	Olivia.Park@ucsfmedctr.org	132.132, 133.158	Pearson, D. University of Texas Medical School, Houston	Deborah.A.Pearson@uth.tmc.edu	118.064, 133.178
Parker, C. L. University of Missouri	clphf2@mizzou.edu	118.087	Pearson, K. Kaiser Permanente Center for Health Research	Kathy.Pearson@kpchr.org	121.158
Parks, N. Marcus Autism Center & Children's Healthcare of Atlanta	natalie.parks@choa.org	131.082, 133.195, 133.198, 133.193	Peddle, M. Prometheus Research, LLC	matt@prometheusresearch.com	129.001, 129.003
Parladé, M. University of Pittsburgh	mvp15@pitt.edu	136.002	Pekar, J. J. Johns Hopkins School of Medicine, Kennedy Krieger Institute	pekar@jhu.edu	106.033, 106.034, 106.040
Parlier, M. University of North Carolina, Chapel Hill (UNC-CH)	mparlier@med.unc.edu	122.180	Pellicano, E. Institute of Education	l.pellicano@ioe.ac.uk	115.007, 139.056, 141.130
Parmenter, T. University of Sydney	trevorp@med.usyd.edu.au	165.006	Pellington, S. The University of the West Indies	sydonnie_ss@hotmail.com	118.061, 118.064, 122.184
Parr, J. Newcastle University	jeremyparr@doctors.org.uk	109.132, 109.160, 121.157	Pelphrey, K. Yale University	kevin.pelphrey@yale.edu	106.048, 106.051, 106.057, 106.061, 117.032, 107.105, 127.003, 146.003, 164.002, 164.003, 164.004, 164.008
Pascal, M. Tel Aviv University	meital_pascal@yahoo.com	140.100	Pelzel, K. University of Iowa Hospitals and Clinics	kelly-pelzel@uiowa.edu	133.207
Pasco, G. Institute of Education	g.pasco@ioe.ac.uk	117.016, 147.004	Pena, J. La Universidad del Zulia	juaco949@hotmail.com	161.202
Pasiak, C. University of Windsor	pasiakc@uwindsor.ca	132.124	Penn, A. University of California, San Diego	apenn@ucsd.edu	157.026
Pasko, B. E. University of Colorado Denver, Anschutz Medical Campus	bryce.pasko@ucdenver.edu	107.071	Penner, K. University of Manitoba, Children's Hospital	kpenner@cc.umanitoba.ca	117.057
Passos-Bueno, M. University Sao Paulo, Biosciences Institute	passos@ib.usp.br	126.004	Pennick, M. University of Alabama at Birmingham	mark_pennick@yahoo.com	117.034
Patel, H. UMDNJ-New Jersey Medical School	patelhh@umdnj.edu	122.181, 141.162	Pepa, L. Rutgers University-Douglas Developmental Disabilities Center	lauren.pepa@gmail.com	133.201
Paterson, S. Children's Hospital of Philadelphia	patersons@email.chop.edu	107.067, 107.089, 135.001, 152.001, 157.033, 159.120			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Pepler, D. York University	pepler@yorku.ca	158.105	Phillips, L. Concordia University College of Alberta	leah.phillips@concordia.ab.ca	133.177
Pereira-Leal, J. Instituto Gulbenkian de Ciéncia	jleal@gc.gulbenkian.pt	126.007	Philpot, B. UNC	bphilpot@med.unc.edu	109.133
Pericak-Vance, M. University of Miami, John P Hussman Institute for Human Genomics	mpericak@med.miami.edu	109.145, 117.043	Phuchareon, S. Child and Adolescent Psychiatry, University of California, San Francisco	PhuchareonS@peds.ucsf.edu	132.132
Perino, M. Children's Hospital of Philadelphia	mperino1345@gmail.com	106.027	Phuchareon, W. Child and Adolescent Psychiatry, University of California, San Francisco	PhuchareonS@peds.ucsf.edu	133.158
Perissinoto, J. Universidade Federal de Sao Paulo	jacyperio@terra.com.br	138.003	Piatt, C. University of Alberta	piatt@ualberta.ca	120.118
Perkins, D. Broadmoor Hospital	Derek.Perkins@wlmht.nhs.uk	122.176	Picard, F. Laval University	Frederic.Picard@criucpq.ulaval.ca	119.094
Perkins, T. Deakin University	perkot@gmail.com	106.063, 112.215	Picard, R. Massachusetts Institute of Technology	picard@media.mit.edu	129.030
Peris, L. Independent Practice	lbperlis@gmail.com	133.171	Pickett, J. Autism Tissue Program, Autism Speaks	jpickett@autismspeaks.org	157.054
Perlmutter, M. Yale University School of Medicine	michael.perlmutter@yale.edu	129.023	Pickles, A. Institute of Psychiatry, King's College London	andrew.pickles@kcl.ac.uk	111.194, 138.007, 154.006
Perreault, A. Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	perreault.audrey@gmail.com	141.132, 141.160	Picut, M. Neurosciences Institute of La Timone, Autism Ressource Center	marine.picut@ap-hm.fr	138.012
Perrett, D. I. University of St Andrews	dp@st-andrews.ac.uk	106.049	Pierce, K. University of California, San Diego	kpierce@ucsd.edu	107.084, 109.136, 132.148, 132.149, 152.002
Perry, A. York University	perry@yorku.ca	103.004, 131.058, 132.131	Pierpaoli, C. PPITS/STBB/NICHD/NIH	cp1a@nih.gov	107.096
Persico, A. M. Child Neuropsychiatry Unit, Univ. Campus Bio-Medico, IRCCS "Fondazione S. Lucia"	a.persico@unicampus.it	157.040	Pierucci, J. University of Alabama - ASD Clinic	jmpierucci@crimson.ua.edu	116.002, 139.043
Perszyk, D. Yale Child Study Center	danielle.perszyk@yale.edu	111.193, 153.007	Piggot, J. University of Dundee	jpiggot@mednet.ucla.edu	107.090
Peruzzi, P. AOB	peruzzi@hotmail.it	161.184	Pillai, D. University of Nottingham	khpx9dkr@nottingham.edu.my	142.195
Pessah, I. N. University of California at Davis, MIND Institute	inpessah@ucdavis.edu	108.125	Pillai, R. Child Study Center, Yale University	raja.pillai@yale.edu	106.051
Petersen, J. Down Syndrome Research Foundation	jill.maria.petersen@gmail.com	161.177	Pinborough-Zimmerman, J. University of Utah School of Medicine	judith.zimmerman@hsc.utah.edu	121.145, 121.147
Petersen, P. B. Carmen B. Pingree School for Children with Autism	bccongo2002@yahoo.com	121.145	Pineda, J. A. University of California, San Diego	pineda@cogsci.ucsd.edu	111.196, 153.008
Petersen-Brown, S. University of Minnesota	pete6786@umn.edu	142.214	Pingree, C. University of Utah	carmenpingree@yahoo.com	128.007
Petkova, E. Nathan Kline Institute for Psychiatric Research, NYU Child Study Center	petkoe01@nyumc.org	106.036, 154.005, 158.079	Pinto, D. The Centre for Applied Genomics, The Hospital for Sick Children	dcpinto@sickkids.ca	109.155, 143.001
Petrosini, L. University "Sapienza" of Rome, Centro Europeo per la Ricerca sul Cervello (CERC)/Fondazione Santa Lucia	laura.petrosini@uniroma1.it	141.134	Pinto-Martin, J. University of Pennsylvania School of Nursing and School of Medicine	pinto@nursing.upenn.edu	103.001, 118.062, 118.092, 121.149, 121.150
Pettygrove, S. University of Arizona	sydneyp@email.arizona.edu	122.188	Pioggia, G. Institute of Clinical Physiology, National Council of Research	giovanni.pioggia@ifc.cnr.it	129.004
Pham, K. For OC Kids Neurodevelopmental Center	pham.k.l@gmail.com	159.118	Pitre, N. Emerson College	nicole_pitre@emerson.edu	132.098
Phan, H. T. New York State Institute for Basic Research in Developmental Disabilities	htphan@gmail.com	130.035	Pitts, A. Children's Hospital Los Angeles	allisonpitts25@gmail.com	157.051
Phan, J. T. For OC Kids Neurodevelopmental Center	phanjt@uci.edu	159.118	Piven, J. University of North Carolina, Chapel Hill (UNC-CH)	jpiven@med.unc.edu	107.067, 107.089, 122.180, 135.001, 152.001
Pharkute, S. Behavior Imaging Solutions	suhas.pharkute@behaviorimaging.com	129.009	Pla Mobarak, M. Holland Bloorview Kids Rehabilitation Hospital	ing.michele.pla@gmail.com	158.065
Phillips, J. Stanford University	jenphil@stanford.edu	102.005, 118.079	Plavnick, J. Michigan State University	plavnick@msu.edu	131.087
			Plebst, C. PANAAECA	cplebst@gmail.com	121.142, 150.002

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Plumb, J. Children's Hospital of Philadelphia	plumb@email.chop.edu	117.010	Prud'hommeaux, E. T. Oregon Health & Science University	emilytucker@gmail.com	117.058, 160.162
Plötz, T. Georgia Institute of Technology	thomas.ploetz@cc.gatech.edu	158.086	Pryweller, J. Vanderbilt University	jennifer.r.pryweller@vanderbilt.edu	140.103
Poet, K. University of Missouri	kpvd3@mail.missouri.edu	118.087	Pugliese, C. Virginia Polytechnic Institute and State University	cara.pugliese@gmail.com	133.175
Poinso, F. Autism Ressource Center, Neurosciences Institute of La Timone	françois.poinso@ap-hm.fr	138.012	Puig, O. CIBERSAM, Hospital Clínic de Barcelona	opuig@clinic.ub.es	107.102, 141.148
Pokorny, J. The M.I.N.D. Institute, University of California at Davis Medical Center	jpokorny@ucdavis.edu	106.066	Puleo, C. M. Children's Hospital of Philadelphia	tua89288@temple.edu	151.002, 157.034, 160.143
Poliakoff, E. University of Manchester	ellen.poliakoff@manchester.ac.uk	139.039	Pulido, A. Alliant International University	mpulido1@alliant.edu	119.101
Pollick, F. E. University of Glasgow	f.pollick@psy.gla.ac.uk	107.090	Pulido M.A., A. Alliant International University, Center for Autism Research and Evaluation	maryapulido@gmail.com	158.106
Ponzio, N. M. New Jersey Medical School, Department of Pathology and Laboratory Medicine, UMDNJ - Graduate School of Biomedical Sciences	ponzio@umdnj.edu	105.008	Pulverman, R. Delaware State University	rpulverm@temple.edu	159.120
Poon, K. National Institute of Education	kenneth.poon@nie.edu.sg	158.072	Pulvermüller, F. MRC Cognition and Brain Sciences Unit, Free University of Berlin	friedemann.pulvermuller@mrc-cbu.cam.ac.uk	164.005
Porges, S. University of Illinois at Chicago	sporges@psych.uic.edu	136.006, 136.007	Purdy, D. Siemens Medical Solutions	david.purdy@siemens.com	107.069
Portmann, T. Stanford University, Stanford University	porttho@stanford.edu	104.005	Puts, N. Cardiff University	nickputs@gmail.com	107.109
Possmayer, F. University of Western Ontario	fpossmay@uwo.ca	105.021	Puzis, R. Cold Spring Harbor Laboratory	rpuzis@cshl.edu	104.004
Potrzeba, E. University of Connecticut	emily.potrzeba@uconn.edu	142.193	<b>Q</b>		
Potts, A. The Johnson Center for Child Health and Development	apotts@johnson-center.org	119.097	Qi, C. University of New Mexico	hqj@unm.edu	133.160
Poustka, F. Goethe-University	Poustka@em.uni-frankfurt.de	108.118	Qian, X. University of Minnesota	qianx035@umn.edu	142.214, 165.008
Poustka, L. Central Institute of Mental Health	Luise.Poustka@zi-mannheim.de	106.059	Qian, Y. Kaiser Permanente Division of Research	Yinge.X.Qian@kp.org	121.158, 128.005
Pouw, L. Leiden University	pouwlb@fsw.leidenuniv.nl	139.038, 158.085, 158.093	Qiao, Y. University of British Columbia	yqiao@interchange.ubc.ca	166.002
Powell, C. M. The University of Texas Southwestern Medical Center	craig.powell@utsouthwestern.edu	105.005	Quadros, E. SUNY-Downstate Medical Center	Edward.Quadros@downstate.edu	133.170
Powell, E. M. University of Maryland School of Medicine	epowe001@umaryland.edu	105.007	Quigley, D. Carleton University	danielle.quigley@gmail.com	132.116
Powell, K. K. Children's National Medical Center	kp3346a@student.american.edu	131.094, 141.161	Quincozes-Santos, A. Federal University of Rio Grande do Sul (UFRGS)	andrequincozes@yahoo.com.br	105.009
Powell, M. Baylor College of Medicine	mppowell@texaschildrens.org	160.151	Quinn, V. Kaiser Permanente Research and Evaluation	Virginia.P.Quinn@kp.org	121.158
Powell, P. University of Alabama	patrickspowell@gmail.com	112.208, 115.003, 115.005, 141.149, 141.167	Quirke, S. McGill University, Montreal Children's Hospital	sara.quirke@mail.mcgill.ca	119.103
Powers, M. Center for Children with Special Needs	mpowers@autismct.com	155.011	Qureshi, H. Hospital for Sick Children	hamzah.qureshi@sickkids.ca	106.046, 107.074, 107.076
Powers, N. R. Greenville Hospital System Children's Hospital	NPowers@ghs.org	123.195	<b>R</b>		
Pratt, L. Rutgers University-Newark	lpratt@andromeda.rutgers.edu	108.129	R. C. AIMS Consortium, M. University of Cambridge, King's College London, University of Oxford	cam.aims@gmail.com	106.052
Prem, S. Robert Wood Johnson Medical School	smp312@lehigh.edu	105.001	Radhakrishna, S. Child and Adolescent Psychiatry, University of California, San Francisco	sreya_r@berkeley.edu	132.132, 133.158
Price, E. Children's Hospital of Philadelphia	ehunyadi3@gmail.com	106.027, 106.028	Radoeva, P. SUNY Upstate Medical University	radoevap@upstate.edu	139.063
Pringle, B. National Institute of Mental Health	bpringle@mail.nih.gov	165.001	Raff, N. University of Houston	nattraff@gmail.com	131.090
Prins, P. University of Amsterdam	p.j.m.prins@uva.nl	131.047	Ragozzino, M. E. University of Illinois at Chicago	mrago@uic.edu	105.016
Proulx, C. SynapDx Corporation	cproulx@synapdx.com	109.134	Rahbar, M. The University of Texas Health Science Center at Houston, The University of Texas School of Public Health at Houston	Mohammad.H.Rahbar@uth.tmc.edu	118.064, 121.149, 156.014, 157.056

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Rai, D. University of Bristol, Karolinska Institutet	Dheeraj.Rai@bristol.ac.uk	121.148, 122.170, 128.004	Reeve, W. Tyndale University	p.u.t.e.h@hotmail.com	131.049
Raina, P. Centre for Addiction and Mental Health	poonam_raina@camh.net	123.205	Regatky, N. Hospital de Niños "Dr. Ricardo Gutiérrez"	regatky@gmail.com	121.153
Raihel, J. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	Jessica.Raihel@nyumc.org	106.036	Regenbogen, C. RWTH Aachen University, JARA Translational Brain Medicine	cregenbogen@ukaachen.de	106.047
Rajamma, Sr., U. Manovikas Kendra Rehabilitation and Research Institute for the Handicapped	ushamvk@yahoo.co.in	109.154	Regener, P. University of Glasgow	paular@psy.gla.ac.uk	107.090
Rajcan-Separovic, E. University of British Columbia	eseparovic@cw.bc.ca	166.002	Rehg, J. Georgia Institute of Technology	rehg@cc.gatech.edu	129.022, 140.120
Rajendram, R. The Hospital for Sick Children	rageen@gmail.com	109.143, 109.157, 109.162	Reichborn-Kjennerud, T. Norwegian Institute of Public Health	terk@fhi.no	118.084, 154.002
Rajendran, G. University of Strathclyde	thusha.rajendran@strath.ac.uk	129.015, 139.053	Reichow, B. Yale University School of Medicine	brian.reichow@yale.edu	129.023
Ramdoss, S. The University of Texas at Austin	sathiya.ramdoss@mail.utexas.edu	131.055	Reid, C. Montreal Autism Centre	creid@autismcentre.org	158.090
Ramsay, G. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	gordon.ramsay@yale.edu	138.023, 159.140	Reilly, C. Vanderbilt University	caitlin.m.reilly@vanderbilt.edu	131.097
Rancourt, K. Dalhousie University	kate.rancourt@dal.ca	158.062	Reilly, G. Stony Brook University	georgianna.reilly@gmail.com	133.171
Rand, J. B. Oklahoma Medical Research Foundation	james-rand@omrf.org	108.124	Reinhardt, V. Florida State University	reinhardt@psy.fsu.edu	103.005
Rantakokko, P. National Institute for Health and Welfare (THL)	Panu.Rantakokko@thl.fi	128.003	Reisinger, E. University of Pennsylvania	ereis@mail.med.upenn.edu	119.099, 120.130
Rao, P. Kennedy Krieger Institute, Center for Autism & Related Disorders	RaoP@kennedykrieger.org	138.020, 158.095	Reitzel, J. McMaster Children's Hospital/McMaster University	reitzel@hhsc.ca	102.007, 132.135, 133.204, 133.205
Rapee, R. Macquarie University, Sydney Australia	ron.rapee@mq.edu.au	114.001	Remmel, R. Marquette University	rheanna.remmel@mu.edu	112.204, 131.046, 131.065
Ratchford, A. Colorado Department of Public Health and Environment	andria.ratchford@state.co.us	121.149	Ren, J. Institute of Child Health, University College London	juejing.ren.10@ucl.ac.uk	106.056
Rathmell, B. Seaside Therapeutics	brathmell@seasidetx.com	133.176	Rendell, P. Australian Catholic University, Melbourne, Australia	peter.rendell@acu.edu.au	142.191
Rattazzi, A. PANACEA	arattazzi@arnet.com.ar	121.142, 121.153, 150.002	Rescorla, L. Bryn Mawr College	lrescorl@brynmawr.edu	157.046
Ray-Subramanian, C. Waisman Center, University of Wisconsin-Madison	cray@wisc.edu	161.201	Reyes, J. P. University of Denver	jpmreyes80@gmail.com	129.008
Raymaekers, R. Ghent University	ruth.raymaekers@ugent.be	111.196, 161.190	Reyes, N. M. Virginia Tech	reynados@vt.edu	116.004, 131.086, 158.102
Raz, R. Tel Aviv University	razraanan@gmail.com	165.002	Reynolds, A. M. University of Colorado Denver	reynolds.ann@tchden.org	103.001, 121.149, 145.004, 166.001
Raznahan, A. National Institute of Mental Health	raznahan@mail.nih.gov	107.088	Reynolds, K. Seattle Pacific University	reynoldsk2@spu.edu	158.083
Reale, L. U.O.C. Neuropsichiatria Infantile, Università di Catania	laurareale_@hotmail.com	141.134, 155.013	Reynolds, S. Virginia Commonwealth University, University of Florida	staceyren02@yahoo.com	105.012, 105.013
Reavis, A. Marcus Autism Center & Children's Healthcare of Atlanta	andrea.reavis@choa.org	131.082, 133.196, 133.193, 158.086	Reznick, J. S. University of North Carolina - Chapel Hill	reznick@email.unc.edu	123.194
Reece, J. The University of the West Indies	jodyreece@yahoo.com	118.061, 122.184	Rhodes, G. University of Western Australia	gill@psy.uwa.edu.au	115.007
Reed, H. Children's Hospital of Philadelphia	reedh@email.chop.edu	137.002	Ribeiro, C. University Sao Paulo, Biosciences Institute	cintia_genetica@hotmail.com	126.004
Reed, P. Michigan State University	Phil.Reed@ht.msu.edu	121.149	Ricceri, L. Istituto Superiore di Sanità	lricceri@hotmail.com	133.192
Reed, S. Rady Children's Hospital, San Diego, University of California, San Diego	sreed@casrc.org	102.004, 162.003	Rice, C. E. National Center on Birth and Developmental Disabilities	crice@cdc.gov	103.001, 121.145, 121.156, 121.159, 122.188, 128.007
Reed, S. University of Oregon	sreed@uoregon.edu	140.092	Rice, K. A. University of Maryland	katherine.rice@yale.edu	138.025
Reeve, R. University of Virginia	rer5r@virginia.edu	122.162	Rice, Jr., R.	rrice@sjfc.edu	129.020, 158.084
			Rich-Edwards, J. Connors Center for Women's Health and Gender Biology, Brigham and Women's Hospital	jwrchedwards@bics.bwh.harvard.edu	122.168
			Richards, J. LENA Research Foundation	Jeffrey.Richards@Colorado.edu	129.027, 135.007
			Richards, J. A. LENA Foundation	JeffRichards@lenafoundation.org	132.144, 159.114

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Richdale, A. La Trobe University	a.richdale@latrobe.edu.au	119.116, 120.133, 145.003	Roberts, W. The Hospital for Sick Children	wroberts@hollandbloorview.ca	103.007, 107.100, 109.143, 109.155, 109.157, 109.162, 117.038, 119.112, 123.209, 123.210, 123.191, 123.214, 135.006, 136.001, 138.021, 139.057, 140.085, 141.138, 142.176, 157.039, 158.101, 161.177
Richey, J. Virginia Tech	jar62@biac.duke.edu	164.006	Robertson, A. University of Glasgow	ashley@psy.gla.ac.uk	120.135
Richman, D. Texas Tech University	d.richman@ttu.edu	112.198	Robertson, C. University of Cambridge, NIMH, National Institutes of Health	cr419@cam.ac.uk	127.004
Rieck, G. California State University, Chico	garrettrieck@gmail.com	123.215	Robertson, D. South London and Maudsley NHS Trust	dene.Robertson@btinternet.com	106.031, 122.183, 154.008, 155.009
Rieffe, C. Developmental Psychology, Leiden University	crieffe@fsw.leidenuniv.nl	139.065, 139.038, 158.085, 158.093	Robins, D. L. Georgia State University	drobins@gsu.edu	116.006, 117.004, 117.017, 161.192
Riesgo, R. Universidade Federal do Rio do Sul - Brasil	rriesgo@hcpa.ufrgs.br	105.009, 105.010	Robinson, A. University of South Carolina	anrobins@gmail.com	158.096
Righi, G. Yale Child Study Center	grighi@gmail.com	111.193, 112.216, 130.036	Robinson, C. University of Colorado Denver School of Medicine	Cordelia.Rosenberg@uchsc.edu	103.001, 121.149, 121.159
Riley, M. Children's Hospital of Philadelphia	rileym1@email.chop.edu	106.027	Robinson, E. Harvard School of Public Health	erobinso@hsph.harvard.edu	128.002
Rinald, K.	krinald@interchange.ubc.ca	133.213	Robinson, S. York University	suzanne_robinson@camh.net	131.057
Rinaldi, M. University at Albany, SUNY	mlrinaldi@albany.edu	120.119, 133.161, 137.005	Robustelli, B. National Institute of Mental Health	robustellibl@mail.nih.gov	140.112, 152.007
Ring, R. Pfizer Global Research and Development, Autism Speaks	robert.ring@pfizer.com	105.002	Roche, L. Inserm U930	laetitia.roche@etu.univ-tours.fr	142.175
Rio Frio, T. IntegraGen SA	thomas.riofrio@integragen.com	126.002	Rockel, C. The Hospital for Sick Children, McMaster University	Conrad@sickkids.ca	107.099
Risch, N. University of California San Francisco, Kaiser Permanente, Division of Research	RischN@humgen.ucsf.edu	118.079	Rodger, S. University of Queensland	s.rodger@uq.edu.au	155.003
Risi, S. University of Michigan Autism & Communication Disorders Center	srisi@umich.edu	117.014, 155.008	Rodman, J. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	jennifer.rodman@nyumc.org	106.036, 154.005
Rispoli, M. Texas A&M University	mrисpoli@tamu.edu	131.055	Rodrigues, L. University of São Paulo	letigues@gmail.com	105.010
Risterucci, C. F. Hoffmann-La Roche	celine.risterucci@roche.com	108.114	Rodrigues, M. University Sao Paulo, Biosciences Institute	melina_guero@yahoo.com.br	126.004
Ritvo, A. University of California, Los Angeles	aritvo@gmail.com	128.007	Rodriguez, M. Dana-Farber Cancer Institute, Harvard Medical School	Maria-rodriguez@dfci.harvard.edu	109.166, 126.006
Ritvo, E. R. UCLA Medical School	eritvo@aol.com	128.007	Roeyers, H. Ghent University	Herbert.Roeyers@UGent.be	122.173, 130.039, 132.146, 141.129, 161.180, 161.190
Riva, F. University of Milano-Bicocca, Yale University	federica.riva@yale.edu	106.061	Rogers, A. Marucs Autism Center and Children's Healthcare of Atlanta	amanda.rogers@choa.org	132.121
Rivera, S. U.C. Davis Center for Mind & Brain, MIND Institute	srivera@ucdavis.edu	106.066, 133.173	Rogers, S. UC Davis MIND Institute	sally.rogers@ucdmc.ucdavis.edu	106.066, 107.073, 132.140, 137.001, 159.136
Rizzo, K. University of South Carolina	rizzoka@email.sc.edu	161.189	Rogier, O. EPFL	ophelie.rogier@epfl.ch	132.105
Roark, B. Oregon Health & Science University	roark@cslu.ogi.edu	160.162	Rojas, D. C. University of Colorado Denver, Anschutz Medical Campus	don.rojas@ucdenver.edu	107.071, 107.073, 107.110, 112.199
Roberson, D. University of Essex	robedd@essex.ac.uk	139.036	Rolland, C. Avocate Illinois Masonic Medical Center	carol.rolland@advocatehealth.com	132.155
Roberts, A. Harvard School of Public Health	aroberts@hsph.harvard.edu	122.168	Roman, C. UCLA	roman@psych.ucla.edu	132.134
Roberts, E. NYU Child Study Center	elizabeth.roberts@nyumc.org	154.005	Romanczyk, R. State University of NY at Binghamton	rromanc@binghamton.edu	123.196, 123.198, 160.160
Roberts, G. South London and Maudsley NHS Foundation Trust	ged.roberts@slam.nhs.uk	122.183, 154.008, 155.009	Romeyn, J. The Help Group	JRomeyn@thehelpgroup.org	131.068
Roberts, J. Griffith University	jmaroberts@hotmail.com	165.006	Rommelse, N. N. Karakter Child and Adolescent Psychiatry University Centre	N.Lambregts-Rommelse@psy.umcn.nl	148.003
Roberts, J. University of South Carolina	jane.roberts@sc.edu	158.096, 161.189	Ronald, A. Birkbeck College	a.ronald@bbk.ac.uk	128.002, 158.082, 166.006
Roberts, S. Holland Bloorview Kids Rehabilitation Hospital, The Hospital for Sick Children	wroberts@hollandbloorview.ca	107.091, 132.150			
Roberts, T. P. Children's Hospital of Philadelphia	robertstim@email.chop.edu	107.085			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Roncadin, C. Peel Children's Centre	croncadin@peelcc.org	139.057, 142.176, 157.039	Ruble, L. A. University of Kentucky	lisa.ruble@uky.edu	120.127, 120.123, 131.045, 141.128, 165.005
Rosa, M. Hospital Clinic de Barcelona	mirosa@clinic.ub.es	107.102, 141.148	Rudelli, N. Fondazione Ares	nicrudelli@gmail.com	132.105
Rosario, M. C. UNIFESP	anacarina.otor@epm.br	138.003	Rudie, J. D. University of California, Los Angeles	rudie@ucla.edu	107.082, 127.005, 146.004, 164.007
Rosas, S. Concept Systems, Inc.	srosas@conceptsystems.com	123.196, 123.198	Rudra, A. University of Reading	a.rudra@pgr.reading.ac.uk	121.151, 122.171
Rose, S. University of Arkansas for Medical Sciences	rose@uams.edu	110.175	Ruigrok, A. Autism Research Centre, Department of Psychiatry, University of Cambridge	ar560@medschl.cam.ac.uk	106.052, 152.004, 152.005,
Rosenberg, A. University of Washington	adrosen@u.washington.edu	160.150	Ruiz, J. Ponce Center for Autism, Ponce School of Medicine and Health Sciences	gypsyjrm@yahoo.com	142.171
Rosenberg, C. University São Paulo, Biosciences Institute	carlarosenberg@uol.com.br	126.004	Rump, K. Children's Hospital of Philadelphia	rumpk@chop.edu	139.046, 139.055
Rosenberg, S. University of Colorado Denver	Steven.Rosenberg@ucdenver.edu	121.149, 121.150, 135.007	Rumsey, R. University of Minnesota	rumse002@umn.edu	155.008
Rosenblau, G. Freie Universität Berlin	gabriela.rosenblau@fu-berlin.de	106.043	Runde, J. Children's Hospital Colorado/ The University of Colorado at Denver and Health Sciences Center	jsrunde@gmail.com	133.165
Rosenthal, M. Center for Autism Spectrum Disorders, Children's National Medical Center	MRosenthal01@gmail.com	117.036, 131.094, 136.008, 141.137, 141.070, 159.110, 159.116	Russell-Smith, S. University of Western Australia	srussell-smith@graduate.uwa.edu.au	139.037
Ross, B. University of Houston	blross@Central.UH.EDU	161.208	Russo, A. Health Research Institute, Hartwick College	ajrusso@hriopt.org	108.112
Ross, C. UCLA	cordelia.ross@gmail.com	132.104	Russo, N. Syracuse University	natalie.russo@einstein.yu.edu	141.164
Ross, J. Thomas Jefferson University	judith.ross@jefferson.edu	157.046	Russo, Ph.D, N. M. Rush University Medical Center	nicole_russo@rush.edu	131.069
Rosset, D. Neurosciences Institute of La Timone, Autism Resource Center	delphinerosset@yahoo.fr	138.012	Russo-Ponsaran, N. Rush University Medical Center	nicole_russo@rush.edu	161.197
Rossi, S. Child Neuropsychiatry Unit, Univ. Campus Bio-Medico	s.rossi@unicampus.it	157.040	Rusyniak, J. Kennedy Krieger Institute and Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine	Rusyniak@kennedykrieger.org	121.149
Rossignol, D. International Child Development Resource Center	rossignolmd@gmail.com	133.170	Ruta, L. Autism Research Centre, University of Cambridge	ruta@policlinico.unict.it	104.002
Rossini-Drecq, E. SUPSI	emmanuelle.drecq@supsi.ch	132.105	Rutherford, H. Yale Child Study Center	helena.rutherford@yale.edu	112.209
Roth, C. Norwegian Institute of Public Health, Columbia University	chiroth@gmail.com	118.084	Rutherford, M. McMaster University	rutherm@mcmaster.ca	138.022
Rothschild, L. National Institute of Mental Health	leah.rothschild@nih.gov	159.132	Ruysschaert, L. Ghent University	Lieselot.Ruysschaert@UGent.be	130.039
Roughan, L. Great Ormond Street Hospital	laura.roughan@gosh.nhs.uk	131.064, 154.007			
Rousseau, F. IntegraGen SA	francis.rousseau@integragen.com	126.002			
Roux, C. University of Quebec in Montreal	roux.catherine@courrier.uqam.ca	159.111			
Roux, S. Inserm U930	sylvie.roux@univ-tours.fr	132.145			
Rowberry, J. Yale University School of Medicine	justin.rowberry@yale.edu	117.015, 141.123			
Roy, D. Massachusetts Institute of Technology	dkroy@media.mit.edu	142.193			
Rozenblit, L. Prometheus Research, LLC	leon@prometheusresearch.com	129.001, 129.002, 129.003			
Rozga, A. Georgia Institute of Technology	agata@gatech.edu	140.120, 158.086			
Rozsa, III, A. University of Alabama at Birmingham	ayjayar@uab.edu	107.087			
Rubery, C. Seattle Children's Research Institute	christine.rubery@seattlechildrens.org	132.118, 159.122			
Rubia, K. King's College London, Institute of Psychiatry	k.rubia@iop.kcl.ac.uk	106.030, 106.031, 127.008			
Rubin, D. University of Connecticut	devin.rubin@uconn.edu	142.193			
Rubinstein, J. Rubenstein Associates	jrubinstein@rubinstein.com	113.001			
			<b>S</b>		
			Saba, G. Center for Pervasive Developmental Disorders, AOB	sabages@gmail.com	159.125
			Sabatino, A. University of North Carolina	sabatino.antoINETTE@gmail.com	164.006
			Sacco, R. Univ. Campus Bio-Medico, IRCCS "Fondazione S. Lucia"	r.sacco@unicampus.it	157.040
			Saghy, N. Weill Cornell Medical College	nis2022@med.cornell.edu	140.106
			Saito, D. University of Fukui	sdaisuke@u-fukui.ac.jp	106.055
			Sajdel-Sulkowska, Ph.D, E. M. Harvard Medical School/BWH	Esulkowska@rics.bwh.harvard.edu	108.127
			Sakurai, T. Mount Sinai School of Medicine	takeshi.Sakurai@mssm.edu	105.006
			Salamanco, M. Hospital de Niños	gsalamanco@yahoo.com.ar	121.153
			Salehi-Ashtiani, K. Dana-Farber Cancer Institute, Harvard Medical School	ksa3@nyu.edu	109.166, 126.006
			Salisbury, A. The Warren Alpert Medical School of Brown University	Amy_Salisbury@Brown.EDU	130.038

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Salt, J. HAVE Dreams	jsalt@havedreams.org	120.124, 120.137, 123.190	Schalomon, M. Grant MacEwan University	schalomonm@macewan.ca	158.109
Salvago, A. Center for Pervasive Developmental Disorders, AOB	azzurrasvago@tiscali.it	159.124	Schanding, Jr., G. T. University of Houston	tschanding@uh.edu	120.129, 122.182, 131.090, 141.165, 161.200
Sam, A. M. Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill	annwil@email.unc.edu	131.087	Schechtman, M. Albert Einstein College of Medicine	dottoresag@gmail.com	158.099
Samms-Vaughan, M. The University of the West Indies	msamms@cwjamaica.com	118.061, 118.064, 122.184, 156.014, 157.056	Scheeren, A. M. VU University	A.M.Scheeren@vu.nl	160.156, 161.187
Sánchez, F. Nesplora Technology & Behavior	fsanchez@nesplora.com	129.025	Schellenberg, G. University of Pennsylvania School of Medicine	gerardsc@mail.med.upenn.edu	126.002
Sánchez, V. Hospital Clinic de Barcelona, CIBERSAM	vsanchez@clinic.ub.es	107.102	Schendel, D. E. Centers for Disease Control and Prevention	dcs6@cdc.gov	103.001, 121.149, 121.150, 166.001
Sanders, S. Yale University School of Medicine	stephansanders@gmail.com	109.135, 109.150	Schenk, K. Kaiser Permanente Research and Evaluation	Karen.E.Schenk@kp.org	121.158
Sanderson, J. UCLA Semel Institute for Neuroscience & Human Behavior	sanderson.jennifer@gmail.com	132.134	Scherer, S. W. University of Toronto	Stephen.scherer@sickkids.ca	109.143, 109.155, 109.157, 109.162, 123.191, 143.001
Sano, A. Massachusetts Institute of Technology	akanes@mit.edu	129.030	Scherff, A. Birkbeck College	a.scherff@psychology.bbk.ac.uk	158.082
Santangelo, S. L. Department of Psychiatry, Harvard Medical School, Psychiatric and Neurodevelopmental Genetics Unit, Center for Human Genetic Research, Massachusetts General Hospital, Harvard School of Public Health	ssantangelo@pngu.mgh.harvard.edu	118.073, 126.001	Schertz, H. Indiana University	hschertz@indiana.edu	132.100
Santos, C. W. University of Texas Medical School	Cynthia.W.Santos@uth.tmc.edu	133.178	Schieve, L. National Center on Birth Defects and Developmental Disabilities	Lschieve@cdc.gov	103.001, 121.149, 121.150, 121.159, 122.188
Santosh, P. National Health Service	Paramala.Santosh@gosh.nhs.uk	127.008	Schipul, S. E. Center for Cognitive Brain Imaging, Carnegie Mellon University	ses@andrew.cmu.edu	146.001
Sarachana, T. George Washington University	letmetel@gmail.com	108.121	Schjølberg, S. The Norwegian Institute of Public Health	Synnve.Schjolberg@fhi.no	118.084, 121.155, 154.002
Sarkar, N. Vanderbilt University	nilanjan.sarkar@vanderbilt.edu	129.018	Schlaug, G. Beth Israel Deaconess Medical Center and Harvard Medical School	gschlaug@bidmc.harvard.edu	133.200
Sarma, D. University of California, San Diego	dev@scn.ucsd.edu	111.179	Schmalbrock, P. The Ohio State University	schmalbrock.1@osu.edu	107.077
Sarrett, J. Emory University	jsarret@emory.edu	119.113	Schmand, B. University of Amsterdam, Academic Medical Center Amsterdam	B.A.Schmand@uva.nl	131.047
Sasson, N. University of Texas at Dallas	nsasson@utdallas.edu	115.008, 138.015, 164.006	Schmid, A. UMMS Shriver Center	anna.schmid@umassmed.edu	131.041, 132.098
Saulnier, C. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	celine.saulnier@emory.edu	116.003, 136.003, 157.016	Schmid-Schonbein, G. University of California, San Diego	gwss@eng.ucsd.edu	157.026
Saunders, K. Private practitioner	kerrysa@bigpond.com	118.070	Schmidt, A. University of Oregon	schmidt@uoregon.edu	139.081, 160.174
Sayre, P. Ohio State University	Pamela.Sayre@osumc.edu	133.199	Schmitt, M. F. Hoffmann-La Roche	monique.schmitt@roche.com	108.114
Scahill, L. Yale University	lawrence.scahill@yale.edu	117.035, 133.162, 151.003, 158.059, 158.067	Schmuck, D. Brigham Young University	dominic.schmuck@gmail.com	141.168
Scammell, J. L. University of Windsor	scammel@uwindsor.ca	132.124	Schneider, A. UC Davis MIND Institute	andrea.schneider@ucdmc.ucdavis.edu	133.173
Scandurra, V. University of Florence	v.scandurra@yahoo.it	155.002	Schneider, B. Vanderbilt University	bschneider1590@gmail.com	115.002, 140.104, 141.150
Scarpa, A. Virginia Tech	ascarpa@vt.edu	109.167, 116.004, 131.053, 131.086, 133.181, 136.006, 138.013, 158.102	Schneider, D. RWTH Aachen University	dschneider@ukaachen.de	106.047
Schaaf, R. Thomas Jefferson University	roseann.schaaf@jefferson.edu	132.115, 153.001, 157.036	Schneider, F. RWTH Aachen University, JARA Translational Brain Medicine, Perelman School of Medicine and the Philadelphia Veterans Administration Medical Center	fschneider@ukaachen.de	106.047
Schachar, R. The Hospital for Sick Children	russell.schachar@sickkids.ca	107.099, 133.178	Schneider, K. RWTH Aachen University, JARA Translational Brain Medicine	karla.schneider@rwth-aachen.de	106.047
Schall, C. Virginia Commonwealth University Autism Center for Excellence	cmschall@vcu.edu	102.003	Schnetz-Boutaud, N. Center for Human Genetics, Vanderbilt University	nathalie.schnetz-boutaud@chgr.mc.vanderbilt.edu	109.145
			Schnider, P. F. Hoffmann-La Roche	patrick.schnider@roche.com	108.114

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Schoenfield-McNeil, J. Seattle Pacific University	cnej1@spu.edu	142.207	Senman, L. The Hospital for Sick Children	lili.senman@sickkids.ca	109.157, 109.162
Schohl, K. Marquette University	kirsten.schohl@marquette.edu	112.204, 131.046, 131.065	Seno, Y. Aichi Prefectural University	seno@ews.aichi-pu.ac.jp	117.022
Schork, N. The Scripps Translational Research Institute	nschork@scripps.edu	109.136	Sequeira, A. Instituto Gulbenkian de Ciência	filipapsequeira@gmail.com	109.155
Schranz, C. Governors State University	cschranz@msn.com	119.105	Sequeira, J. SUNY-Downstate Medical Center	sequeira2000@yahoo.com	133.170
Schreck, K. Penn State University-Harrisburg	kas24@psu.edu	145.001, 145.002	Seris, N. University of Cape Town	noleenseris@gmail.com	132.113
Schreiber, D. University of Pittsburgh School of Medicine	schreiberdr@upmc.edu	157.030	Serlachius, E. Karolinska Institutet	eva.serlachius@ki.se	121.148, 122.170
Schreibman, L. University of California, San Diego	lschreibman@ucsd.edu	102.004, 132.127, 132.148, 132.149, 162.003	Serlin, G. Graduate Center of the City University of New York	gserlin@hunter.cuny.edu	117.047
Schroeder, G. Lutheran General Hospital	Georgette.Schroeder@advocatehealth.com	157.052	Sesarini, C. Instituto de Ciencias Básicas y Medicina Experimental (ICBME), Hospital Italiano de Buenos Aires	krisesarini@yahoo.com	109.141
Schroeder, J. H. York University	jessica4@yorku.ca	117.018, 123.212, 142.181	Sevlever, M. Auburn University	melina.sevlever@gmail.com	160.160
Schry, A. Virginia Polytechnic Institute and State University	aschry@vt.edu	133.180	Shadmehr, R. Johns Hopkins University	shadmehr@jhu.edu	140.097
Schultz, R. Children's Hospital of Philadelphia	schultzrt@chop.edu	106.027, 106.028, 106.053, 107.067, 107.078, 107.089, 107.097, 111.190, 115.008, 117.036, 136.008, 138.005, 139.055, 139.067, 141.137, 152.001, 157.035, 157.036, 159.116, 159.120	Shaffer, R. Indiana University School of Medicine	rebshaff@iupui.edu	131.056, 158.078
Schumann, C. M. UC Davis MIND Institute	cschumann@ucdavis.edu	110.170	Shahidiani, A. Institute of Psychiatry, King's College London, Centre for Neuroimaging Sciences, King's College London	asal.shahidiani@kcl.ac.uk	107.104, 122.183
Schvarcz, A. Phyllis Green and Randolph Cowen Institute for Pediatric Neuroscience	ariel.schvarcz@gmail.com	106.036	Shahin, T. The Ohio State University	tony.shahin@osumc.edu	112.200
Schwartz, R. CUNY Graduate Center	rschwartz@gc.cuny.edu	142.185	Shamloo, M. Stanford University	mshamloo@stanford.edu	104.005
Schwartz, J. University of California, Davis, MIND Institute	jschwartz@ucdavis.edu	105.011	Shandley, K. Swinburne University of Technology	kshandley@swin.edu.au	118.075
Scordo, M. R. University of Florence	neuropsicofirenze@gmail.com	155.002	Shapira, S. National Center on Birth Defects and Developmental Disabilities (NCBDDD)	cs06@cdc.gov	121.149
Scott, J. The University of Queensland, Royal Brisbane and Women's Hospital, Queensland Centre for Mental Health Research	James_G_Scott@health.qld.gov.au	132.106	Shapiro, C. University of Massachusetts, Lowell	cshapiro@email.unc.edu	138.035
Sears, C. Goshen College	claras4@goshen.edu	160.169	Sharber, A. Children's National Medical Center	asharber@cnmc.org	109.159, 131.094
Sears, L. University of Louisville	lonnie.sears@louisville.edu	111.180, 112.210, 138.016, 160.169	Sharda, M. National Brain Research Centre	meghasharda@nbrc.res.in	106.039
Sebat, J. University of California San Diego	jsebat@ucsd.edu	109.166, 117.002, 126.006	Sharp, F. University of California at Davis	frank.sharp@ucdmc.ucdavis.edu	109.153, 133.186
Seery, A. Boston University	amseery@bu.edu	130.032	Sharp, W. Marcus Autism Center, Emory University School of Medicine	william.sharp@choa.org	157.016, 157.018, 157.019
Seib, H. Yale University	heidi.seib@yale.edu	106.051	Shcherbakov, A. Rutgers University- Douglass Developmental Disabilities Center	antonsherb@gmail.com	133.201
Seijo, R. M. Albert Einstein College of Medicine	zemog19@aol.com	158.099	Shea, N. University of Notre Dame	Nicole.M.Shea.55@nd.edu	133.209
Seltzer, M. M. Waisman Center, University of Wisconsin-Madison	mseltzer@waisman.wisc.edu	101.004, 140.082, 140.083, 142.180, 160.152	Shehzad, Z. Yale University	zarrar.shehzad@yale.edu	146.004
Semensato, M. Federal University of Rio Grande do Sul	msemensato@gmail.com	119.117	Sheikh, A. New York State Institute for Basic Research in Developmental Disabilities	Ashsheikh@aol.com	108.111, 108.120, 110.169
Sendowski, T. University of California, San Francisco	tahl.sendowski@ucsf.edu	132.132, 133.158	Sheinkopf, Ph.D, S. J. The Warren Alpert Medical School of Brown University	Stephen_Sheinkopf@brown.edu	130.038
Senerth, J. NIMH/NIH	julia.senerth@nih.gov	104.006	Shelton, J. UC Davis Department of Public Health Sciences	janie.shelton@gmail.com	118.081
Senju, A. Birkbeck, University of London	a.senju@bbk.ac.uk	138.007, 139.052	Shen, M. UC Davis MIND Institute	shen@ucdavis.edu	109.153
Senkow, Q. Seine River School Division	qsenkow@srsd.ca	120.131	Shen, Y. Dana-Farber Cancer Institute, Harvard Medical School	yun_shen@dfci.harvard.edu	109.166, 126.006

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Shenouda, J. UMDNJ-New Jersey Medical School	Shenoujo@umdnj.edu	117.056, 122.181, 141.162	Sideris, J. Frank Porter Graham Institute	john.sideris@unc.edu	117.055
Sheperd, K. Kennedy Krieger Institute, Johns Hopkins School of Medicine	sheperd@kennedykrieger.org	160.155	Siegel, B. University of California, San Francisco	bryna.siegel@ucsf.edu	132.132, 133.158
Shepherd, C. Simon Fraser University	cody.shepherd@sfu.ca	123.189, 123.209, 123.210	Siemann, J. Vanderbilt University	justin.k.siemann@vanderbilt.edu	115.002, 140.103, 140.104, 141.150, 142.197
Shepherd, S. Princeton University	sshepher@princeton.edu	140.107	Sigman, M. University of California, Los Angeles	msigman@ucla.edu	136.004, 137.001
Sheppard, B. Johns Hopkins School of Public Health	bsheppar@jhsph.edu	166.001	Sigman, M. Laboratorio de Neurociencia Integrativa, Physics Department	sigman@df.uba.ar	106.035
Sheppard, E. University of Nottingham Malaysia Campus	elizabeth.sheppard@nottingham.edu.my	142.195	Sikich, L. University of North Carolina at Chapel Hill, ASPIRE Research Program, UNC-CH	lsikich@med.unc.edu	102.001, 133.184
Sheridan, E. The University of Alabama at Birmingham	esher@uab.edu	161.207	Sikora, D. Oregon Health & Science University	sikorad@ohsu.edu	160.151
Sherwood, I. University of Alabama	isurewould_777@yahoo.com	132.117	Silberman, A. New York State Psychiatric Institute	Silberm@nyspi.columbia.edu	118.092
Shetty, N. Massachusetts General Hospital	nandita@nmr.mgh.harvard.edu	107.080	Siller, M. The Graduate Center of City University of New York, Hunter College of the City University of New York	msiller@hunter.cuny.edu	117.047
Shic, F. Yale University School of Medicine	frederick.shic@yale.edu	129.023, 135.005, 138.031, 139.066, 139.075, 144.001, 144.002, 144.003, 144.004	Silove, N. Children's Hospital at Westmead	natalies@chw.edu.au	165.006
Shield, A. Boston University	aaronshield@gmail.com	142.187	Silverman, J. L. NIMH/NIH	silvermanj@mail.nih.gov	104.006, 105.004, 105.002
Shifman, S. The Hebrew University of Jerusalem	sagiv@vms.huji.ac.il	126.005	Silvestrin, R. Federal University of Rio Grande do Sul (UFRGS)	betasilvestrin@yahoo.com.br	105.009
Shih, P. Neuroscience Department, Brown University	pattishih@gmail.com	106.038, 107.075	Simard, M. CHUQ Research Center	marie-noelle.simard@crchuq.ulaval.ca	158.097
Shillingsburg, M. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine	alice.shillingsburg@choa.org	131.093, 131.091, 131.092	Simard-Meilleur, A. Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	andree-anne.simard-meilleur@mail.mcgill.ca	115.001, 141.158, 141.163
Shimizu, C. UCLA Center for Autism Research and Treatment	CShimizu@mednet.ucla.edu	111.182, 130.033	Simmons, D. R. University of Glasgow	david@psy.gla.ac.uk	107.090, 120.135
Shin, Y. Yonsei University	yjshin@yuhs.ac	142.202	Simmons, E. Yale University	elizabeth.schoen@yale.edu	142.178
Shinnar, S. Albert Einstein College of Medicine	sshinnar@aol.com	158.099	Simone, D. Istituto Superiore di Sanità	simone@hotmail.it	133.192
Shirinyan, D. University of California, Los Angeles	dshiriny@ucla.edu	127.005	Simonoff, E. Institute of Psychiatry, King's College London	Emily.Simonoff@iop.kcl.ac.uk	154.006, 158.066
Shoffner, A. Colorado Therapeutic Riding Center	amy@ctrcinc.org	133.165	Sin, C. York University, York University	csin@yorku.ca	109.156
Shooshtari, S. University of Manitoba	ShahShooshta@cc.umanitoba.ca	120.131	Sinanis, N. Prometheus Research, LLC	naralys@prometheusresearch.com	129.003
Shore, S.	sshore@adelphi.edu	133.191	Sindberg, H. University of Wisconsin-Madison	hasindbe@wisc.edu	161.201
Short, M. Flinders University	michelle.short@flinders.edu.au	145.003	Singel, D. University of Colorado Denver, Anschutz Medical Campus	debra.singel@ucdenver.edu	107.110
Shrintzen, R. SUNY Upstate Medical University	SHPRINTR@upstate.edu	139.063	Singh, A. Manovikas Kendra Rehabilitation and Research Institute for the Handicapped	asemsuren@gmail.com	109.154
Shugars, C. National Institute of Mental Health	chelsea.shugars@nih.gov	117.011	Singh, I. London School of Economics and Political Science	I.A.Singh@lse.ac.uk	150.003
Shulman, L. Albert Einstein College of Medicine	lisa.shulman@einstein.yu.edu	158.099	Singh, I. Medical University of South Carolina	singhi@muscc.edu	114.002
Shultz, S. Yale University	sarah.shultz@yale.edu	138.028, 164.003	Singh, J. Georgia Institute of Technology	jennifer.singh@hts.gatech.edu	109.158
Shuman, C. Hospital for Sick Children	cheryl.shuman@sickkids.ca	123.191	Singh, K. Lurie Center for Autism, MassGeneral Hospital for Children	KSINGH2@PARTNERS.ORG	133.163
Shumway, S. University of Utah	shumways@mail.nih.gov	142.173, 159.132	Singh, K. Cardiff University	singhkd@cf.ac.uk	107.109
Shuster, J. York University, London Health Sciences Centre	jshust@yorku.ca	158.077	Singh, N. National Brain Research Centre	nandini@nbric.ac.in	106.039



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Singhal, N. Action for Autism, National Centre for Autism	dr.nidhisinghal@gmail.com	121.151, 122.171, 122.178, 150.003	Smith, M. Hospital for Sick Children, University of Toronto, Hospital for Sick Children	marylou.smith@utoronto.ca	106.046
Sinha, S. Manovikas Kendra Rehabilitation and Research Institute for the Handicapped	swagata7sinha@hotmail.com	109.154	Smith, S. McGill University	sarah.smith2@mail.mcgill.ca	159.139
Siracusano, R. University of Messina, Hospital "G. Martino"	rmsiracusano@yahoo.it	129.004	Smith, T. University of Rochester	tristram_smith@urmc.rochester.edu	122.186, 133.194, 133.199, 160.164
Sizoo, B. Dimence	b.sizoo@hetnet.nl	133.168, 155.005	Smith, V. University of Alberta	vs2@ualberta.ca	158.109
Skefos, J. Boston University School of Medicine	skefos@gmail.com	105.014, 110.174	Smith-Collins, A. Institute of Child Health, University College London	adamprsmith@gmail.com	106.056
Skoletsky, J. SynapDx Corporation	jskoletsky@synapdx.com	109.134	Smoski, M. Duke University Medical Center	moria.smoski@duke.edu	164.006
Skuse, D. H. Institute of Child Health	dkuse@ich.ucl.ac.uk	106.056, 117.054, 140.105, 148.001, 148.002, 154.007, 158.088, 165.003	Snedeker, J. Harvard University	snedeker@wjh.harvard.edu	142.212, 159.141
Sladeczek, I. McGill University	ingrid.sladeczek@mcgill.ca	119.103	Snow, A. Children's Hospital Boston, Harvard Medical School	anne.snowgallagher@childrens.harvard.edu	116.008, 157.050
Slason, E. University of Colorado Denver, Anschutz Medical Campus	erin.slason@gmail.com	107.071	Snyder, A. Washington University School of Medicine	avi@npg.wustl.edu	153.004
Slater, C. Children's Hospital Boston	chelsea.slater@childrens.harvard.edu	117.044	Sohl, K. University of Missouri - Thompson Center for Autism and Neurodevelopmental Disorders	sohlk@health.missouri.edu	117.001, 120.120, 122.165
Sloman, L. Centre for Addiction and Mental Health	Leon_Sloman@camh.net	131.057	Sokhadze, E. M. University of Louisville	tato.sokhadze@louisville.edu	111.180, 112.210, 112.197, 133.185, 138.016
Slonims, V. Guy's & St Thomas' NHS Foundation Trust	vicky.slonims@gstt.sthames.nhs.uk	142.179	Sokhadze, G. University of Louisville	g0sokh01@louisville.edu	111.180, 112.197, 133.185, 138.016
Smile, S. The University of the West Indies	san7smile@hotmail.com	118.061, 122.184	Sokoloff, J. L. Children's National Medical Center	jsokoloff@cnmc.org	131.094, 139.074, 141.170, 158.108
Smith, A. Yale University School of Medicine	amandasmith3@gmail.com	119.096	Solares, S. University of Maryland	ssolares@umd.edu	109.152, 109.146
Smith, A. King's College London, Institute of Psychiatry	anna.smith@kcl.ac.uk	106.031, 127.008	Solomon, M. Department of Psychiatry, MIND Institute, Imaging Research Center	marjorie.solomon@ucdmc.ucdavis.edu	101.003, 105.004, 131.071
Smith, C. Southwest Autism Research & Resource Center	csmith@autismcenter.org	131.042	Solso, S. University of California, San Diego	stephanie.solso@gmail.com	107.084, 152.002
Smith, D. Pfizer Global Research and Development	Daniel.G.Smith@Pfizer.com	105.002	Someki, F. Hamamatsu University School of Medicine	somek048@umn.edu	117.022, 159.128, 160.165
Smith, D. Pfizer Global Research and Development	Deborah.L.Smith@Pfizer.com	105.002	Song, Y. Vanderbilt University	yanna.song@vanderbilt.edu	131.062
Smith, E. University of Rochester	egc2@duke.edu	140.116	Sonuga-Barke, E. Ghent University, University of Southampton	ejb3@soton.ac.uk	141.129
Smith, I. Dalhousie University/IWK Health Centre	isabel.smith@dal.ca	103.007, 114.006, 117.038, 123.209, 123.210, 132.150, 132.156, 135.006, 136.001, 139.057, 140.085, 141.138, 142.176, 157.039, 161.177	Sood, D. Governors State University	dsood@govst.edu	119.105
Smith, J. University of Maryland Baltimore	jacobmsmith1@gmail.com	105.007	Soorya, L. Mount Sinai School of Medicine	latha.soorya@mssm.edu	103.008, 107.092, 111.189
Smith, J. San Jose State University	gigi.smith@sjsu.edu	157.017	Sorensen, C. University of Michigan	cbrianne@umich.edu	137.008
Smith, K. S. California Department of Public Health	karen.smith@cdph.ca.gov	118.079, 121.149, 150.001	Sosson, A. Massachusetts General Hospital, Harvard Medical School	asosson@partners.org	133.186
Smith, K. Keck School of Medicine of USC	kasmith@chla.usc.edu	123.204, 157.051	Soto, M. Universidad Rafael Urdaneta	maryandre_sf@hotmail.com	161.202
Smith, K. D. Kennedy Krieger Institute	SmithK@kennedykrieger.org	133.163	Soto, T. University of Massachusetts, Boston	sototimothy@hotmail.com	119.093, 119.108, 133.211, 158.087
Smith, L. Centre for Child and Adolescent Mental Health	lars.smith@r-bup.no	114.007	Souders, M. C. Children's Hospital of Philadelphia	souders@email.chop.edu	103.001, 121.149, 157.033, 157.034, 157.035, 157.036, 160.143
Smith, L. University of Florida	lauraosmith1@verizon.net	117.029, 131.089, 133.180	Soulières, I. Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), University of Quebec in Montreal	isabelle@nmr.mgh.harvard.edu	141.158, 141.163, 142.201
Smith, L. Waisman Center, University of Wisconsin-Madison	lsmith@waisman.wisc.edu	140.083, 142.180			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Sourander, A. University of Turku	andre.sourander@utu.fi	128.003	Stefanidou, C. School of Psychology, University of Birmingham	chrysi.stefanidou@gmail.com	111.187, 130.034
Sousa, I. Instituto Gulbenkian de Ciéncia	isousa@igc.gulbenkian.pt	109.155	Steiman, M. Montreal Children's Hospital	mandy.steiman@gmail.com	123.209, 123.210
South, M. Brigham Young University	south@byu.edu	112.205, 112.214, 141.168, 153.005, 158.073, 159.119	Stein, G. Center for Autism Research	steing1@email.chop.edu	137.002
Spain, D. King's College London	debbie.spain@iop.kcl.ac.uk	106.031, 122.183, 154.008, 155.009	Steiner, A. M. Yale University School of Medicine	amanda.mossman@yale.edu	119.096
Sparaci, L. National Research Council of Italy (CNR), Children's Hospital Bambino Gesù	laura.sparaci@istc.cnr.it	140.089	Steiner, K. New Leaf Link (NeLL)	kg.steiner@xplornet.com	133.169
Sparapani, N. Florida State University Institute	njs09@fsu.edu	160.166	Steiner, S. Central Institute of Mental Health	Sabina.Steiner@zi-mannheim.de	106.059
Sparrow, J. Seattle Pacific University	jsparrow@spu.edu	142.207	Steinhart, E. UMMS Shriver Center	erin.steinhart@umassmed.edu	131.041
Speer, L. Cleveland Clinic	speerl@ccf.org	148.004	Steinmetz, S. University of Colorado Denver, Anschutz Medical Campus	sarah.steinmetz@ucdenver.edu	107.110, 112.199
Spence, S. J. Childrens Hospital Boston	Sarah.Spence@childrens.harvard.edu	107.088	Stemer, A. Simon Fraser University	aps15@sfu.ca	138.032
Spencer, D. Optum Insight	donna.spencer@optum.com	122.185, 133.208	Stenroos, E. S. UMDNJ-RWJMS	stenroos@umdnj.edu	166.004
Spencer, M. Autism Research Centre, University of Cambridge	mds1003@cam.ac.uk	107.068, 107.086, 140.096	Stergiou, N. University of Nebraska at Omaha, University of Nebraska Medical Center	nstergiou@unomaha.edu	140.099
Spencer, M. D. Autism Research Centre, University of Cambridge	mds1003@cam.ac.uk	107.103	Sterling, A. Waisman Center, University of Wisconsin-Madison	asterling@waisman.wisc.edu	160.152
Spendlove, S. University of California, San Diego	sspendlove@ucsd.edu	152.002	Stern, E. Floating Hospital for Children	eric.e.stern@gmail.com	160.154
Sperle, L. University of Pittsburgh	lis63@pitt.edu	139.046, 139.078, 139.080, 158.104	Stern, Y. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine	yael.stern@choa.org	136.003
Sperry, L. Griffith University	lasperry@hotmail.com	114.005, 132.137	Stevens, A. University of Washington	ari7@comcast.net	116.008, 157.050
Spiro, J. Simons Foundation	jspiro@simonsfoundation.org	116.008, 157.050	Stevens, M. C. Institute of Living, Hartford Hospital/Yale University	msteven@harthosp.org	117.036, 136.008, 141.137, 159.116
Spoelstra, M. Autism Ontario	marg@autismontario.com	123.212	Stevens, S. Marquette University	sheryl.stevens@marquette.edu	112.204, 131.046, 131.065
Sponheim, E. Oslo University Hospital	eili.sponheim@uus.no	114.007	Stevenson, R. Vanderbilt University Medical Center	ryan.andrew.stevenson@gmail.com	115.002, 140.103, 140.104, 141.150, 142.197
Spurling Jeste, S. UCLA	sjeste@mednet.ucla.edu	130.037	Stewart, H. University of Edinburgh	hjestewart23@hotmail.co.uk	115.006
Srinivasan, S. University of Connecticut	sudha8383@gmail.com	129.017, 132.136, 132.143, 132.152, 159.127, 159.133, 161.196	Steyaert, J. K.U. Leuven, University Hospital Maastricht, K.U. Leuven	jean.steyaert@uz.kuleuven.be	138.027, 138.029
Ssebyala, K. Makerere College of Health Sciences	kssebyala@yahoo.com	150.001	Stichter, J. University of Missouri	stichterj@missouri.edu	131.079, 141.169, 161.181
St. Gabriel, K. Harvard Medical School	kristian_stgabriel@hms.harvard.edu	129.007	Stickgold, R. Harvard Medical School, Beth Israel Deaconess Medical Center	rstickgold@hms.harvard.edu	157.032
St. John, T. University of Washington Autism Center	tstjohn@u.washington.edu	141.147, 157.031	Stobbe, G. University of Washington	gastobbe@u.washington.edu	109.138, 118.063
St. Pourcain, B. School of Social and Community Medicine, University of Bristol	BeatBeate.StPourcain@bristol.ac.uk	148.002	Stock, R. University of British Columbia	stockrichard@hotmail.com	123.209, 123.210
Stacy, M. Johns Hopkins School of Public Health	mstacy@jhsp.edu	133.179	Stockmann, L. Center for	a.stockmann@centrumautisme.nl	139.038, 139.065, 158.085, 158.093
Stahmer, A. Rady Children's Hospital, San Diego, University of California, San Diego	astahmer@casrc.org	102.004, 120.130, 132.148, 132.149, 132.127, 162.003	Stoddart, K. Redpath Centre	kevin.stoddart@redpathcentre.ca	123.214, 160.171
Stamova, B. UC Davis, MIND Institute	boryanastamova@yahoo.com	109.153	Stoesz, B. University of Manitoba	umstoess3@cc.umanitoba.ca	160.171
Staples, K. University of Regina	kerri.staples@uregina.ca	133.166	Stokes, M. Deakin University	mark.stokes@deakin.edu.au	106.063, 112.215, 118.070, 160.171
Starr, E. University of Windsor	estarr@uwindsor.ca	120.126	Stokes, M. A. Deakin University	mark.stokes@deakin.edu.au	160.145
State, M. Yale University School of Medicine	Matthew.State@Yale.edu	109.135, 109.150	Stoltenberg, C. The Norwegian Institute of Public Health	camilla.stoltenberg@fhi.no	118.084, 154.002
Staunton, S. Great Ormond Street Hospital	s.staunton@ucl.ac.uk	140.105, 165.003	Stone, M. Aurora University	markhstone2@sbcglobal.net	139.059
Stefanatos, A. University of Texas at Austin	akstefanatos@utexas.edu	139.078, 139.080, 158.104	Stone, W. University of Washington	stonew@uw.edu	117.031, 137.001, 160.161, 160.172

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Stoner, R. University of California, San Diego	stonerri@gmail.com	129.005	Surén, P. Norwegian Institute of Public Health	pal.suren@fhi.no	118.084
Stoppelbein, L. University of Alabama at Birmingham	stoppel@uab.edu	117.034	Susca, C. University of Connecticut	carolyn.susca@uconn.edu	132.152
Storch, E. University of South Florida	estorch@health.usf.edu	114.003	Susser, E. Columbia University, New York State Psychiatric Institute	ess8@columbia.edu	118.084, 154.002
Storino, R. University of Florence	rosstori@virgilio.it	155.002	Suzuki, K. Hamamatsu University School of Medicine	katsuaki-suzuki@ams.odn.ne.jp	107.106, 152.003
Stothers, M. The University of Western Ontario	mstothe2@uwo.ca	111.192, 142.192	Suzuki, M. Albert Einstein College of Medicine	masako.suzuki@einstein.yu.edu	109.163
Strang, J. F. Children's National Medical Center	jstrang@cnmc.org	107.078	Svensson, A. Karolinska Institutet	anna.svensson@ki.se	122.170, 128.004
Strang, J. Children's National Medical Center	jstrang@cnmc.org	109.159, 131.094, 158.108	Swain, D. Vanderbilt University	deanna.m.swain@vanderbilt.edu	131.062
Strauss, K. Autism Treatment and Research Center	kristin.strauss@unabreccianelmuro.it	131.075, 131.076	Swanson, A. Vanderbilt University,	amy.r.swanson@vanderbilt.edu	129.018
Strauss, M. S. University of Pittsburgh	strauss@pitt.edu	137.001, 139.046, 141.143	Swanson, M. The Graduate Center of City University of New York	mswanson@gc.cuny.edu	117.047
Strazza, S. University of Connecticut	srstrazza@gmail.com	117.036	Swedo, S. National Institutes of Health	swedos@mail.nih.gov	107.088, 107.096, 112.212
Stroganova, T. Moscow State University of Psychology and Education	stroganova56@mail.ru	107.072, 112.201	Sweeney, J. University of Illinois at Chicago	jsweeney@psych.uic.edu	105.016
Stromp, T. Vanderbilt University	tori.stromp@vanderbilt.edu	131.062	Swineford, L. B. Florida State University Autism Institute	laurie.swineford@med.fsu.edu	103.005, 159.132
Stuart, E. Johns Hopkins School of Public Health	estuart@jhsp.edu	123.203	Switala, A. University of Louisville	andy.switala@louisville.edu	107.083, 107.098 110.168
Sturm, H. Karolinska Institutet	harald.sturm@sll.se	121.148	Sysoeva, O. Washington University School of Medicine	sysoevao@psychiatry.wustl.edu	153.004
Styner, M. UNC	styner@cs.unc.edu	107.089, 152.001	Szatmari, P. Offord Centre for Child Studies, McMaster University	szatmar@mcmaster.ca	102.007, 103.007, 116.001, 117.038, 122.180, 123.209, 123.210, 133.204, 133.205, 133.167, 135.006, 136.001, 139.057, 140.085, 141.138, 142.176, 157.039, 158.101, 161.177
Subramanian, A. Purdue University	subramaa@purdue.edu	129.026	<b>T</b>		
Suburo, A. Hospital Universitario Austral	amsuburo@gmail.com	157.042	Tachdjian, R. UCLA	RTachdjian@mednet.ucla.edu	131.095
Suckling, J. Brain Mapping Unit, University of Cambridge	js369@cam.ac.uk	106.052, 107.068, 152.004, 152.005	Tager-Flusberg, H. Boston University	htagerf@bu.edu	107.080, 117.030, 130.031, 130.032, 139.051, 141.154, 153.003
Sugihara, G. Hamamatsu University School of Medicine	genichi-psyc@umin.ac.jp	107.106, 152.003	Tagliarina, A. University of Houston	acobras5@sbcglobal.net	131.090
Sugiyama, T. Hamamatsu University School of Medicine	toshirou_sugiyama@mx.achmc.pref.aichi.jp	107.106, 152.003	Taheri, A. York University	ataheri@yorku.ca	103.004
Suh, J. University of Connecticut	jsuh05@gmail.com	117.036, 141.137, 159.116	Takahashi, N. Mount Sinai School of Medicine	nagahide.takahashi@mssm.edu	105.006
Suhrheinrich, J. University of California, San Diego, Rady Children's Hospital, San Diego	jsuhrhei@ucsd.edu	102.004, 162.003	Takahashi, T. N. University of Missouri - Thompson Center for Autism and Neurodevelopmental Disorders	TakahashiN@health.missouri.edu	109.165, 122.165, 157.025, 157.037, 157.038
Sukoff Rizzo, S. Pfizer Global Research and Development	Stacey.Rizzo@Pfizer.com	105.002	Takahashi, V. Human Genome Center, University of São Paulo	vnvot@usp.br	126.004
Sullivan, J. C. Autism Research Centre, University of Cambridge	jcs69@medschl.cam.ac.uk	142.172	Takayanagi, N. Hamamatsu University School of Medicine	n_takayanagi_0389@yahoo.co.jp	142.177
Sullivan, K. University of Washington	kstamper@u.washington.edu	159.115	Takebayashi, K. Hamamatsu University School of Medicine	kiyokazu@hama-med.ac.jp	152.003
Summers, J. McMaster Children's Hospital/ McMaster University	jsummers@hhsc.ca	102.007, 133.204, 133.205	Takei, N. Hamamatsu University School of Medicine	ntakei@hama-med.ac.jp	107.106
Sun, C. Harbin Medical University	suncaihong2003@163.com	119.115, 140.087	Talebizadeh, Z. Children's Mercy Hospital and University of Missouri-Kansas City	ztalebi@cmh.edu	109.146, 109.164
Sung, M. Institute of Mental Health	Min_SUNG@imh.com.sg	158.072			
Surcel, H. National Institute for Health and Welfare (THL)	helja-marja.surcel@ktl.fi	128.003			
Suren, P. The Norwegian Institute of Public Health	pal.suren@fhi.no	154.002			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Talley, M. Kennedy Krieger Institute	talleyymi@kennedykrieger.org	140.115, 142.205	The BASIS Team, & British Autism Study of Infant Siblings	basis@bbk.ac.uk	117.016
Tam, S. Dana-Farber Cancer Institute, Harvard Medical School	laocoon@gmail.com	109.166, 126.006	The BASIS Team, Birkbeck College University of London	basis@bbk.ac.uk	139.052
Tamanaha, A. C.	anacarina.otor@unifesp.epm.br	138.003	Thomas, B. Northwestern University	bthoma01@saintmarys.edu	133.209, 138.002
Tan, M. University of Alberta	maria.tan@ualberta.ca	133.177	Thomas, C. NIMH, National Institutes of Health	cibu.thomas@nih.gov	127.004
Tancredi, D. J. UC Davis School of Medicine and Center for Healthcare Policy and Research	djtancredi@ucdavis.edu	118.081	Thomas, E. Rutgers University- Douglass Developmental Disabilities Center	edt0626@hotmail.com	133.201
Tanel, N. Holland Bloorview Kids Rehabilitation Hospital	ntanel@hollandbloorview.ca	158.065	Thomas, K. University of North Carolina	kathleen_thomas@unc.edu	121.150
Tang, C. University of Hong Kong	cmgfung@hku.hk	107.093	Thomas, K. University of Cape Town	Kevin.Thomas@uct.ac.za	132.113
Tang, K. University of Notre Dame	ktang@nd.edu	133.210	Thomas, R. H. University of Western Ontario	rtoma2@uwo.ca	105.020, 105.021, 105.022, 105.024
Tang, M. Tsan Yuk Hospital	tanghym@ha.org.hk	109.144	Thomeer, M. L. Institute for Autism Research, Canisius College	thomeerm@canisius.edu	131.063
Tapper, J. Bustamante Hospital for Children	judymtapper@yahoo.com	156.014, 157.056	Thommen, E. University of Applied Sciences Western Switzerland	evelyne.thommen@eesp.ch	131.048, 132.105
Tartarisco, G. Institute of Clinical Physiology, National Council of Research	gennaro.tartarisco@ifc.cnr.it	129.004	Thompson, A. Offord Centre for Child Studies, McMaster University	athomps@mcmaster.ca	103.007, 122.180, 135.006, 136.001, 158.101, 161.177
Tassone, F. University of California Davis School of Medicine, University of California, Davis, MIND Institute	ftassone@ucdavis.edu	108.126	Thompson, L. Case Western Reserve University	Lee.Thompson@case.edu	166.007
Tavassoli, T. Autism Research Centre, University of Cambridge	tt303@cam.ac.uk	109.147	Thompson, M. Autism Ontario	marilyn@autismontario.com	123.212
Taylor, A. R. University of Western Ontario	rtaylor46@uwo.ca	105.020, 105.024, 105.025	Thompson, M. Boston University	mrt@bu.edu	117.030
Taylor, C. Vanderbilt University	courtney.taylor@vanderbilt.edu	131.062	Thompson, O. University of Washington	owenathompson@gmail.com	109.138
Taylor, H. University of Texas - Health	Heather.Taylor@uth.tmc.edu	133.187	Thompson, P. Michigan State University	patrick.thompson@hc.msu.edu	103.001, 121.149
Taylor, J. L. Vanderbilt Kennedy Center	julie.l.taylor@vanderbilt.edu	123.199, 140.082, 158.094	Thompson, P. M. University of California, Los Angeles	Paul.Thompson@loni.ucla.edu	107.082, 146.004
Taylor, J. M. Dartmouth College	taylorjm@email.chop.edu	106.027	Thompson, W. University of California, San Diego	wes.stat@gmail.com	152.002
Taylor, K. Cambridge University Hospitals NHS Foundation Trust	kevin.taylor@addenbrookes.nhs.uk	108.117	Thomson, L. Cambridge University Hospitals NHS Foundation Trust	lynn.thomson@addenbrookes.nhs.uk	108.117
Taylor, L. University of Western Australia, Telethon Institute for Child Health Research	lauren.taylor@uwa.edu.au	142.186	Thomson, M. Autism Teaching Institute	mary@autismteachinginstitute.org.au	131.061
Taylor, M. J. Hospital for Sick Children	margot.taylor@sickkids.ca	106.046, 107.074, 107.076, 107.091, 107.092, 107.100, 111.191	Thorpe, E. Children's Hospital Boston	Erin.Thorpe@childrens.harvard.edu	117.037
Taylor, M. Institute of Education	M.Taylor@ioe.ac.uk	166.006	Thurm, A. National Institutes of Health	athurm@mail.nih.gov	107.088, 107.096, 112.212, 117.011, 159.132
Taylor, M. Penn State University - Harrisburg	mat5386@psu.edu	145.001, 145.002	Thys, M. Ghent University	Martine@autismvlaanderen.be	122.173
Taylor, S. Rady Children's Hospital San Diego	stgubuster@gmail.com	157.026	Tian, Y. UC Davis, MIND Institute	tianyf18@gmail.com	109.153
Tek, S. Kennedy Krieger Institute for Autism and Related Disorders	tek@kennedykrieger.org	119.095, 139.062, 141.153	Tian, Y. University of California, Los Angeles	ytianidyll@ucla.edu	109.150
Temple, B. University of Manitoba	bev_temple@umanitoba.ca	120.131	Tichenoff, L. J. University of Western	ltichenoff@uwo.ca	105.020, 105.021, 105.025
Tetenbaum, S. ASPIRE Center for Learning and Development	spulver@gmail.com	133.171	Tick, N. Yulius	n.tick@yulius.nl	131.054, 158.107
Teufel, K. Goethe University	karoline.teufel@kgu.de	117.048	Tilley, M. Central Methodist University	mtilley@centralmethodist.edu	118.088, 118.087
the Autism Genome Project Consortium, The Centre for Applied Genomics, The Hospital for Sick Children	agp@gmail.com	143.001	Timler, G. Miami University	timlergr@muohio.edu	133.206
			Tint, A. York University	amitint@yorku.ca	119.100
			Tirrell, C. Prometheus Research, LLC	charles@prometheusresearch.com	129.001, 129.003
			Tirrell, J. Child Study Center, Yale University	jonathan.tirrell@yale.edu	106.051



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Tjemagel, J. Simons Foundation	jtjter@umich.edu	116.008, 117.014, 155.008, 157.050	Trudel, M. University of Sherbrooke	marcel.trudel@usherbrooke.ca	119.094
Todd, J. T. Florida International University	james.todd@fiu.edu	135.003, 135.004	Tryfon, A. International Laboratory for Brain Music and Sound (BRAMS), McGill University	ana.tryfon@mail.mcgill.ca	140.110, 140.113, 140.114
Todd, T. California State University	tatodd@cscuhico.edu	123.215	Tsai, P. Johns Hopkins Bloomberg School of Public Health	ptsai@jhsph.edu	117.028, 138.017, 142.204
Tojo, Y. Ibaraki University	tojo@mx.ibaraki.ac.jp	139.071, 142.211	Tsang, C. P. W. University of Hong Kong	candytpw@hku.hk	107.094
Toland, M. University of Kentucky	toland.md@uky.edu	120.127, 165.005	Tsang, K. UCSF	kathryn.tsang@ucsf.edu	109.137
Tomchek, S. Weisskopf Child Evaluation Center	sdtomc01@louisville.edu	123.207, 160.169	Tsang, T. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	ttsang@emory.edu	138.033, 140.117
Tommerdahl, M. University of North Carolina	tommerda@med.unc.edu	107.109, 153.002	Tsatsanis, K. D. Yale Child Study Center	katherine.tsatsanis@yale.edu	158.087
Tonge, N. Children's Hospital of Philadelphia	tongen@email.chop.edu	139.067	Tsetlin, M. MEG Center, Moscow State University of Psychology and Education, Psychological Institute of Russian Academy of Education	markevichm@mail.ru	107.072, 112.201
Tonnson, B. University of South Carolina	kellehbl@mailbox.sc.edu	161.189	Tsuang, M. University of California, San Diego	mtsuang@ucsd.edu	109.136
Toomey, J. Summit Educational Resources	jtoomey@summitted.org	131.063	Tsuchiya, K. J. Hamamatsu University School of Medicine	tsuchiya@hama-med.ac.jp	107.106, 117.022
Torigoe, T. Autism Genetic Resource Exchange	ttorigoe@agre.org	118.079	Tsuji, M. Chukyo University	tsujii@as-japan.jp	107.106, 117.022, 131.060, 142.177, 152.003, 159.128, 160.165
Torres, A. Stanford University	adtorres@stanford.edu	118.079	Tucci, L. The Help Group-UCLA Autism Research Alliance	ltucci@mednet.ucla.edu	131.068, 131.074, 131.083, 132.138
Torres, E. Rutgers University	ebtorres@rci.rutgers.edu	140.109	Tulen, J. Erasmus MC	j.h.m.tulen@erasmusmc.nl	138.011
Tortorella, G. University of Messina, Hospital "G. Martino"	gaetano.tortorella@unime.it	129.004	Tung, D. UCLA	dilshad.tung@gmail.com	131.083
Toth, K. Seattle Children's Research Institute, University of Washington	ktoth@u.washington.edu	132.118, 159.122	Turk, J. Sunshine House	jeremy.turk@slam.nhs.uk	116.007
Toth-Cohen, S. Thomas Jefferson University	susan.toth-cohen@jefferson.edu	129.010	Turner, A. University of Denver	angela.turner@ucdenver.edu	140.091
Tovar, A. University of Connecticut	Andrea.Tovar@uconn.edu	139.050, 142.193, 142.198	Tye, C. Institute of Psychiatry, Kings College London	charlotte.tye@kcl.ac.uk	158.081
Townsend, J. University of California, San Diego	jtownsend@ucsd.edu	111.178, 111.179, 138.019	Tyler-Smith, C. Wellcome Trust Genome Campus	cts@sanger.ac.uk	109.148
Toy, H. Meram Faculty of Medicine	haruntoy@hotmail.com	157.048	Tyson, C. Royal Columbian Hospital	Christine.Tyson@fraserhealth.ca	166.002
Trauner, D. University of California, San Diego	dtrauner@ucsd.edu	111.178, 138.019	Tyson, K. University of Connecticut	katherine.tyson@uconn.edu	117.036, 136.008, 141.137, 159.116
Travers, B. G. University of Alabama, University of Wisconsin-Madison	bgtravers@crimson.ua.edu	107.101, 112.208, 115.003, 115.005, 141.167	Tyszka, J. M. California Institute of Technology	jmt@caltech.edu	107.079
Travers, J. University of Massachusetts Amherst	travers@educ.umass.edu	122.174	<b>U</b>		
Treadway, M. Vanderbilt University	mtreadway77@gmail.com	141.131	Uhland, K. University of Notre Dame	kuhland@nd.edu	133.210
Trembath, D. Olga Tennison Autism Research Centre, La Trobe University	D.Trembath@latrobe.edu.au	132.111, 132.129	Uljarevic, M. School of Psychology, Cardiff University	UljarevicM@cardiff.ac.uk	158.068, 161.203
Trevathan, E. St. Louis University	etrevath@slu.edu	150.001	Urruela, M. University of Florida	murruela333@ufl.edu	105.012
Trivedi, M. S. Northeastern University	trivedi.ma@neu.edu	108.116	Usher, E. University of Kentucky	ellen.usher@uky.edu	120.127
Troiani, V. University of Pennsylvania, Children's Hospital of Philadelphia	troiani@gmail.com	106.027, 106.028, 106.053	Usher, L. University of Miami	lusher@psy.miami.edu	159.134
Trottier, M. Hospital for Sick Children, University of Toronto	magan.trottier@sickkids.ca	123.191	Utz, Sr., S. University of Birmingham	s.c.utz@bham.ac.uk	111.187
Troupou, Jr., A. Day Centre for Children with Developmental Disorders, Messolonghi, Greece	troupouant@yahoo.gr	157.015			
Troyb, E. University of Connecticut	eva.troyb@uconn.edu	117.036, 136.008, 141.137, 159.116			
Trubanova, A. Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine	andrea.trubanova@gmail.com	138.023, 140.107			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
<b>V</b>					
Vaidya, C. Georgetown University	cjv2@georgetown.edu	107.078	van Steijn, D. Donders Institute, Radboud University	d.vansteijn@donders.ru.nl	148.003
Vaillancourt, T. University of Ottawa	tracy.vaillancourt@uottawa.ca	103.007, 114.006, 117.038, 123.209, 123.210, 135.006, 136.001, 140.085, 141.138, 158.101, 161.177	Vander Wyk, B. Yale Child Study Center	brent.vanderwyk@yale.edu	164.008
Valdois, S. Université Pierre Mendès France, Laboratoire de Psychologie et Neurocognition (UMR CNRS 5105), Centre National de la Recherche Scientifique, France	Sylviane.Valdois@upmf-grenoble.fr	140.093	Vander Wyk, B. C. Yale University	brent.vanderwyk@yale.edu	106.051, 106.061
Valentino, A. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine	amber.valentino@choa.org	131.059, 131.091, 131.092, 131.093, 132.121	Vanegas, S. Loyola University Chicago	svanegas@luc.edu	141.139
Valeri, G. Children's Hospital Bambino Gesù	giovanni.valeri@opbg.net	131.075, 131.076, 140.089	VanHooydonk, E. Children's Specialized Hospital	EVanHoo@childrens-specialized.org	132.115
Valicenti-McDermott, M. D. Albert Einstein College of Medicine	rvalicenti@hotmail.com	158.099	Vanvuchelen, M. Katholieke Universiteit Leuven - PHL-University College, Belgium	Marleen.Vanvuchelen@faber.kuleuven.be	142.182
Vallabhajosula, S. University of Nebraska at Omaha	svallabhajosula@unomaha.edu	140.099	Vanwoerden, S. University of Texas Medical School	Salome.Vanwoerden@uth.tmc.edu	133.178
Vallés, V. Hospital Clínic de Barcelona	virginiavalles10@hotmail.com	141.148	Varatharajah, S. Holland Bloorview Kids Rehabilitation Hospital, The Hospital for Sick Children, University of Toronto	sin.varatharajah@utoronto.ca	107.074, 107.076
Van Belle, G. University of Louvain La Neuve (UCL), K.U. Leuven	goedele.vanbelle@uclouvain.be	138.027	Varrall, R. Great Ormond Street Hospital	rebecca.varrall@gosh.nhs.uk	117.054
van Berckelaer-Onnes, I. A. Leiden University	berck@fsw.leidenuniv.nl	116.007	Vasa, R. A. Kennedy Krieger Institute	vasa@kennedykrieger.org	123.203, 158.069, 158.080, 158.095
Van Bourgondien, M. The University of North Carolina at Chapel Hill	mvan2@email.unc.edu	117.049	Vasdasz, E. Institute of Psychiatry, Hospital of the Faculty of Medicine, University of São Paulo	adasz@bol.com.br	126.004
Van Daalen, E. University Medical Centre Utrecht	e.vandaalen@umcutrecht.nl	121.155, 159.130	Vasquez, J. Florida International University	janetvas@yahoo.com	135.003, 135.004
Van de Water, J. University of California, Davis, MIND Institute	javandewater@ucdavis.edu	108.122, 108.125, 118.074, 118.086, 152.008, 157.045	Vazart, C. IntegraGen SA	Celine.Vazart@integragen.com	126.002
van den Brink, W. Amsterdam Institute for Addiction Research (AIAR)	w.vandenbrink@amc.uva.nl	155.005	Veatch, O. Center for Human Genetics, Vanderbilt University	olivia.j.veatch@vanderbilt.edu	109.145, 112.202
Van der Ende, J. Erasmus MC - Sophia's Children's Hospital	jan.vanderende@erasmusmc.nl	158.091	Vedenina, M. Montreal Autism Centre, Centre for Research in Human Development	m.vedenina@gmail.com	158.090
van der Fluit, F. University of Wisconsin, Milwaukee	vanderf2@uwm.edu	157.049	Vega, M. Ponce Center for Autism, Ponce School of Medicine and Health Sciences	mairimvega@gmail.com	142.171
van der Gaag, R. J. Karakter Child & Adolescent Psychiatry	R.vanderGaaG@psy.umcn.nl	155.005	Vehorn, A. TRIAD, Vanderbilt Kennedy Center	alison.vehorn@vanderbilt.edu	123.199, 129.006, 158.098
van der Geest, J. Erasmus MC	j.vandergeest@erasmusmc.nl	138.011	Vehorn, A. C. Vanderbilt University	alison.c.vehorn@vanderbilt.edu	129.018, 158.094
Van der Paelt, S. Ghent University	sara.vanderpaelt@ugent.be	132.146	Vendl, J. Children's Hospital Colorado/ The University of Colorado at Denver and Health Sciences Center	JO.VENDL@UCDenver.edu	133.165
van der Vegt, E. Yulius	e.vandervegt@yulius.nl	131.054, 158.107	Venema, K. M. University of Washington	kmv4@u.washington.edu	141.136
van Engeland, H. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	H.vanEngeland@umcutrecht.nl	107.108	Venker, C. Waisman Center, University of Wisconsin-Madison	cgerickson@wisc.edu	159.137, 161.201
Van Hecke, A. V. Marquette University	amy.vanhecke@marquette.edu	112.204, 131.046, 131.065, 136.007	Ventola, P. Yale University	pamela.ventola@yale.edu	117.032
Van Naarden Braun, K. Centers for Disease Control and Prevention	kbn5@cdc.gov	118.083, 121.159	Venuti, P. University of Trento	paola.venuti@unitn.it	139.041, 139.049, 142.188
Van Ness, M. University of Notre Dame	mvanness@nd.edu	133.209	Verbeek, W. Vincent van Gogh Institute	wverbeek@ggznl.nl	133.168, 139.058
van Santen, J. Oregon Health & Science University	vansanten@cslu.ogi.edu	117.058, 160.162	Verbeek, L. Autism Ontario	layne@communicate.ca	123.212
van Steensel, F. University of Amsterdam	f.j.a.vansteensel@uva.nl	131.077, 158.070	Verhaeghe, L. Ghent University	liedewij.verhaeghe@gmail.com	161.180
			Verheij, C. Erasmus MC - Sophia's Children's Hospital	carolienverheij@hotmail.com	158.091
			Verheij, F. Erasmus MC - Sophia's Children's Hospital	f.verheij@erasmusmc.nl	103.006, 158.074, 158.091
			Verhoeven, L. Behavioural Science Institute, Radboud University Nijmegen	l.verhoeven@pwo.ru.nl	111.184

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Verhulst, F. Erasmus MC - Sophia's Children's Hospital	f.verhulst@erasmusmc.nl	103.006, 131.054, 138.011, 158.074, 158.091, 158.107	Vogel-Farley, V. Children's Hospital Boston/ Harvard Medical School	Vanessa.Vogel@childrens.harvard.edu	111.187, 130.031, 130.037, 153.003, 160.147
Vernon, T. Koegel Autism Center, Department of Counseling, Clinical, & School Psychology, University of California Santa Barbara	tyvernon@education.ucsb.edu	132.147	Voineagu, I. UCLA	voineagu@ucla.edu	109.150
Versee, H. Georgia Institute of Technology	hversee3@gatech.edu	129.029	Volden, J. University of Alberta	Joanne.Volden@ualberta.ca	103.007, 117.038, 123.209, 123.210, 135.006, 136.001, 140.085, 141.138, 158.101, 159.121, 161.177
Vespignani, M. Ecole Polytechnique Fédérale de Lausanne (EPFL)	massimo.vespignani@epfl.ch	140.089	Volk, H. Children's Hospital Los Angeles, University of Southern California	hvolk@usc.edu	128.006
Viau, M. Autism Research Training Program	melanie.viau@muhc.mcgill.ca	120.118	Volker, M. A. University at Buffalo, SUNY	mvolker@buffalo.edu	131.063
Vicari, S. U.O.C. Neuropsichiatria Infantile, Dipartimento di Neuroscienze, Ospedale Pediatrico Bambino Gesù, Rome, Italy	stefano.vicari@opbg.net	131.075, 131.076, 140.089, 141.134	Volkmar, F. Yale University School of Medicine	fred.volkmar@yale.edu	129.023
Vicente, A. M. Instituto Nacional de Saúde Dr. Ricardo Jorge, Instituto Gulbenkian de Ciência	avicente@igc.gulbenkian.pt	109.155, 126.007	von Hofsten, C. Uppsala University	claes.von_hofsten@psyk.uu.se	141.140
Vickstrom, J. Vanderbilt Kennedy Center	jamie.l.vickstrom@vanderbilt.edu	160.151	Voos, A. Yale University	avery.voos@yale.edu	106.057, 164.002, 164.004
Vidal, J. The Hospital for Sick Children	j.vidal.busson@gmail.com	107.076, 107.100	Vorstman, J. University Medical Center Utrecht	j.a.s.vorstman@azu.nl	143.002
Vidal, M. Dana-Farber Cancer Institute, Harvard Medical School	marc_vidal@dfci.harvard.edu	109.166, 126.006	Vosoughi, S. Massachusetts Institute of Technology	soroush@mit.edu	142.193
Vieclli, M. A. York University	mvieclli@yorku.ca	131.057	Vouloumanos, A. New York University	athena.vouloumanos@nyu.edu	164.002
Vieland, V. The Research Institute at Nationwide Children's Hospital & The Ohio State University	veronica.vieland@nationwidechildrens.org	122.180, 166.005	Vreeland, A. UCLA Semel Institute for Neuroscience and Human Behavior	avreeland7@gmail.com	131.068
Viellard, M. Neurosciences Institute of La Timone, Autism Resource Center	marine.viellard@ap-hm.fr	138.012	Vu, H. Center for Creative Initiatives in Health and Population, University of Queensland	ha.vu@uqconnect.edu.au	155.003
Villafuerte, J. Hospital for Sick Children	joshua.villafuerte@utoronto.ca	107.091	Vuletic, L.	ljijana.vuletic@utoronto.ca	142.208
Villalobos, M. Children's Hospital of Philadelphia	villalobosm@email.chop.edu	111.190	<b>W</b>		
Villamia, B. Fundación Orange	blanca.villamia@orange-ftgroup.com	129.025	Wacker, D. University of Iowa Hospitals and Clinics	david-wacker@uiowa.edu	133.207
Villano, M. University of Notre Dame	Michael.A.Villano.4@nd.edu	133.209	Waddell, C. Simon Fraser University	charlotte_waddell@sfu.ca	103.007, 117.038, 123.189, 123.209, 123.210, 135.006, 136.001, 140.085, 141.138, 158.101
Vincent, L. University of Washington	lvincent@uw.edu	117.039	Wadhawan, S. R. University of Pennsylvania	samirw@mail.med.upenn.edu	166.003
Virues-Ortega, J. University of Manitoba	Javiruesor@cc.umanitoba.ca	120.131	Wadkins, T. MindSpec Inc.	timwadkins@gmail.com	109.140
Vismara, L. A. University of California at Davis, MIND Institute	laurie.vismara@ucdmc.ucdavis.edu	132.130, 132.140, 132.116	Wadsworth, H. M. University of Alabama at Birmingham	hwadswor@uab.edu	106.037
Visser, K. Yulius	k.visser@yulius.nl	131.054	Wagemans, J. K.U. Leuven, K.U. Leuven	Johan.Wagemans@psy.kuleuven.be	138.027, 138.029
Vissers, C. T. Centre of Excellence for Neuropsychiatry, Vincent van Gogh Institute for Psychiatry, Donders Institute for Brain, Cognition and Behaviour, Centre for Cognition, Radboud University Nijmegen	cvissers@vvgi.nl	111.183, 111.184, 139.058	Wagner, A. MIND Institute, UC Davis Medical Centre	alwagner@ucdavis.edu	132.140
Visyak, N. Children's Hospital Boston	Nicole.Visyak@childrens.harvard.edu	116.008, 117.037, 157.050	Wagner, J. Children's Hospital Boston/ Harvard Medical School	jennifer.wagner@childrens.harvard.edu	139.051
Vivanti, G. La Trobe University	g.vivanti@latrobe.edu.au	132.128, 132.129	Wagner, J. B. Harvard Medical School/ Children's Hospital Boston	jennifer.wagner@childrens.harvard.edu	130.031
Vo, K. Chicago Medical School	khangvo1@gmail.com	111.179	Wagner, S. Behavior Development and Educational Services	shepwagner@gmail.com	160.154
Voccola, D. Prometheus Research, LLC	david@prometheusresearch.com	129.001, 129.002, 129.003	Wainer, A. L. Michigan State University	waineral@msu.edu	123.197, 132.126
Vogel, S. Children's Hospital of Philadelphia	vogels@email.chop.edu	117.010	Wainwright, L. University of Massachusetts Boston	Laurel.Wainwright@umb.edu	133.211, 158.087
			Waiter, G. University of Aberdeen	g.waiter@abdn.ac.uk	106.049, 106.060
			Wakeford, L. University of North Carolina at Chapel Hill	lwakefor@med.unc.edu	102.008

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Wakuda, T. Hamamatsu University School of Medicine	wakuda@hama-med.ac.jp	152.003	Warren, Z. Vanderbilt University	zachary.warren@vanderbilt.edu	117.031, 123.199, 129.006, 129.018, 137.001, 158.094, 158.098, 160.151, 160.161, 160.172
Waldron, D. University of Iowa Hospitals and Clinics	debra-waldron@uiowa.edu	133.207	Warreyn, P. Ghent University	petra.warreyn@ugent.be	130.039, 132.146, 161.180, 161.190
Walentas, C.	cwalentas@gmail.com	129.001	Wartenberg, D. UMDNJ — Robert Wood Johnson Medical School	dew@eohsi.rutgers.edu	118.091
Walker, C. University of California Davis	ckwalker@pfs.ucdavis.edu	118.066, 128.008	Watkins, S. University of North Carolina	wat@email.unc.edu	121.160
Walker, L. PPITS/STBB/NICHD/NIH, USUHS	walkerlin@mail.nih.gov	107.096	Watson, L. University of North Carolina at Chapel Hill	lwatson@med.unc.edu	102.008, 123.194, 132.114, 132.125, 161.185, 161.186
Walker, S. J. Wake Forest Institute for Regenerative Medicine	swalker@wfubmc.edu	157.027	Webb, K. University of Missouri	kswtx6@mail.missouri.edu	118.087
Wall, D. Harvard Medical School	dpwall@hms.harvard.edu	126.008, 129.007, 155.007	Webb, S. J. University of Washington	sjwebb@u.washington.edu	112.206, 132.118, 138.004, 141.136, 141.142, 159.122
Wallace, G. NIMH	gregwallace@mail.nih.gov	127.004, 139.074, 140.112, 141.170, 152.007, 158.108, 159.110	Weber, N. Flinders University of South Australia	nathan.weber@flinders.edu.au	139.042
Wallace, M. T. Vanderbilt University Medical Center	mark.wallace@vanderbilt.edu	115.002, 140.104, 141.150, 142.197	Weber, R. Goethe University	apriamas@stud.uni-frankfurt.de	117.048
Walpin, L. Children's Specialized Hospital	lwalpin@childrens-specialized.org	122.172	Wee, S. University of California, San Diego	weesabina@gmail.com	111.179
Walsh, E. Kaiser Permanente Division of Research	Eileen.M.Walsh@kp.org	128.005	Weed, K. Boston University	kweed22@gmail.com	110.174
Walsh, J. McMaster University	walshj5@mcmaster.ca	138.022	Wegrzyn, A. University of Missouri	akw9t5@mail.missouri.edu	140.122
Walsh, K. Children's National Medical Center	kwalsh@cnmc.org	158.108	Wei, H. New York State Institute for Basic Research in Developmental Disabilities	hongenwei@gmail.com	108.111, 108.120
Walters, K. Nationwide Children's Hospital	Kimberly.Walters02@nationwidechildrens.org	122.180	Weinblatt, R. Children's National Medical Center	rweinbla@cnmc.org	107.078
Walters, L. Arkansas Children's Hospital Research Institute	ltwalters@uams.edu	160.151	Weinfeld, M. University of California, San Diego, UCSD Autism Center of Excellence	weinfeld@ucsd.edu	109.136, 152.002
Waltes, R. Goethe-University	waltes@em.uni-frankfurt.de	108.118	Weinger, P. Mount Sinai School of Medicine	paige.weinger@mssm.edu	103.008, 111.189
Walton, K. Michigan State University	meyer14@msu.edu	132.117, 132.126	Weiss, J. York University	jonweiss@yorku.ca	119.100, 119.106, 131.057, 158.105
Waly, M. Sultan Qaboos University	mostafa@squ.edu.om	108.113, 108.116, 108.119, 118.068, 118.069, 132.120, 133.174, 157.020, 157.022	Weiss, L. UCSF Department of Psychiatry, Institute for Human Genetics	lauren.weiss@ucsf.edu	109.137, 166.008
Wan, C. Beth Israel Deaconess Medical Center and Harvard Medical School	cwan@bidmc.harvard.edu	133.200	Weiss, P. University of Haifa	tamar@research.haifa.ac.il	129.012
Wan, M. W. University of Manchester	m.w.wan@manchester.ac.uk	138.018	Weiss, S. Hospital for Sick Children	shelly.weiss@sickkids.ca	145.004
Wanamaker, C. University of Connecticut	christian.wanamaker@uconn.edu	129.017	Weisskopf, M. Harvard School of Public Health	mweissko@hsph.harvard.edu	122.168
Wanamaker, S. A. Dana-Farber Cancer Institute, Harvard Medical School	swanamaker@salk.edu	109.166, 126.006	Weitlauf, A. Vanderbilt University	amy.s.weitlauf@vanderbilt.edu	158.094, 158.098
Wang, A. T. Mount Sinai School of Medicine	ting.wang@mssm.edu	107.092	Weitzman, C. Yale University School of Medicine	Carol.Weitzman@yale.edu	141.123
Wang, C. Nankai University	chongyingwang@nankai.edu.cn	139.040	Weksberg, R. The Hospital for Sick Children	rweksb@sickkids.ca	109.143, 109.157, 109.162, 123.191
Wang, J. Harbin Medical University	wangjia2891@hotmail.com	119.115	Welker, E. Kennedy Krieger Institute	welker@kennedykrieger.org	113.004
Wang, J. University of Calgary	jlwang@ucalgary.ca	119.115	Wells, T. Brown University	tony_wells@brown.edu	139.080
Wang, L. University of Pennsylvania	lswang@mail.med.upenn.edu	166.003	Wendt, O. Purdue University	olli@purdue.edu	129.026
Wang, L. Vanderbilt University	lily.wang@Vanderbilt.Edu	131.062	Wenegrat, J. University of Washington	jrsw@uw.edu	116.008, 157.050
Wang, N. Yale University	nancy.wang@yale.edu	127.003	Wenstrup, C. University of Missouri	ccw9q3@mail.missouri.edu	117.001
Wang, P. Seaside Therapeutics	pwang@seasidetherapeutics.com	133.176	Werner, K. Il Trampolino, Centro per l'Infanzia	katia.werner@iltrampolino.ch	132.105
Ward, K. Society for Treatment of Autism	wardk@sta-ab.com	133.188	Werner, M. A. Ivymount School	madler@ivy-mount.org	131.094
Warnell, F. Newcastle University	frances.warnell@ncl.ac.uk	121.157			



# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Werst, E. Seattle Pacific University	emilythererst@gmail.com	139.073	Wijsman, E. M. University of Washington	wijsman@u.washington.edu	112.206, 138.004
Westerfield, M. University of California, San Diego	mwesterfield@ucsd.edu	111.179	Wilcox, E. University of Kentucky	elizabeth.wilcox@uky.edu	141.128
Wetherby, A. M. Florida State University Autism Institute	amy.wetherby@med.fsu.edu	103.005, 160.166	Wild, K. S. Mental Health Research Network	kelly.wild@manchester.ac.uk	139.039
Wexler, B. University of Missouri	brwkc3@mail.mizzou.edu	157.028	Wiley, S. Cincinnati Children's Hospital Medical Center	susan.wiley@cchmc.org	154.003
Wheelwright, S. University of Southampton	s.j.wheelwright@soton.ac.uk	139.059	Will, M. J. University of Missouri	willm@missouri.edu	118.087
Whitaker, A. New York State Institute	whitakea@childpsych.columbia.edu	118.062, 118.092	Will, M. Seattle Pacific University	nelsonm1@spu.edu	142.206
Whitaker, L. University of Essex	lwhita@essex.ac.uk	139.036	Williams, D. Duquesne University	williamsd2139@duq.edu	106.026, 106.058, 127.001
White, C. Center for Autism Research Evaluation and Service	drcarolinewhite@gmail.com	119.101, 158.106	Williams, E. University of Louisville	elwill08@louisville.edu	107.083
White, C. The Ohio State University	catherine.white@osumc.edu	107.077	Williams, J. H. University of Aberdeen	justin.williams@abdn.ac.uk	106.049, 106.060, 115.006
White, L. C. Simons Foundation, University of Michigan Autism & Communication Disorders Center	cwhite@simonsfoundation.org	117.014, 155.008	Williams, K. University of Melbourne and Royal Children's Hospital	katrina.williams@rch.org.au	165.006
White, L. Cardiff University	WhiteLJ2@cardiff.ac.uk	107.109, 117.052	Williams, K. Multi-Health Systems, Inc.	kevin.williams@mhs.com	103.002
White, S. Brigham Young University	sarah_white22@hotmail.com	112.205, 141.168, 153.005	Williams, P. University of Louisville	pgwill01@louisville.edu	123.207
White, S. TRIAD, Vanderbilt Kennedy Center	stormip@hotmail.com	158.094, 158.098	Williams, S. C. Institute of Psychiatry	steven.williams@kcl.ac.uk	107.104, 152.006
White, S. Virginia Polytechnic Institute and State University	swv@vt.edu	133.162, 133.175, 133.180, 133.181, 158.059, 158.060, 158.076	Willis, C. Great Ormond Street Hospital for Children	claudia.willis@btpenworld.com	131.064, 140.105, 165.003
Whitehouse, A. Telethon Institute for Child Health Research, University of Western Australia	whitea08@tartarus.uwa.edu.au	104.003, 142.186	Wills, L. H. Children's Hospital Los Angeles	hwills@chla.usc.edu	157.051
Whitney, R.	whitney@kennedykrieger.org	119.104, 157.017	Wills, M. Children's National Medical Center	meagancwills@gmail.com	131.094, 141.170, 159.110
Whittaker, A. University of Queensland	a.whittaker@sph.uq.edu.au	155.003	Wilms Floet, A. M. kennedy krieger institute	wilmsfloet@kennedykrieger.org	123.216
Whittaker, M. University of Queensland	m.whittaker@sph.uq.edu.au	155.003	Wilson, B. Seattle Pacific University	bjwilson@spu.edu	139.069, 139.073, 142.206, 142.207, 158.083
Whitten, K. Eastern Health Centre	Kathy.Whitten@easternhealth.ca	122.180	Wilson, C. Yale University	cynthia.n.wilson@yale.edu	140.103
Wi, S. Kaiser Permanente Division of Research	Soora.Wi@kp.org	128.005	Wilson, E. King's College London	ellie.wilson@kcl.ac.uk	122.183, 154.008, 155.009
Wichtel, S. Rutgers University-Douglass Developmental Disabilities Center	suzannewichtel@gmail.com	133.201	Wilson, F. Speech Pathology, KFSH&RC	wfredawilson@gmail.com	129.028
Wickenheiser, H. Sinneave Foundation, University Of Calgary	wick_22@hotmail.com	120.139	Wilson, H. R. Biological & Computational Vision	hrwilson@yorku.ca	139.048
Wicker, B. Aix-Marseille University	bruno.wicker@gmail.com	106.035, 106.050	Wilson, J. University of Missouri	jdwdx7@mail.missouri.edu	157.038
Wideman, R. University of Pennsylvania	wideman@upenn.edu	119.099, 120.130	Wilson, K. University of North Carolina at Chapel Hill	kwilson@med.unc.edu	132.114, 132.125,
Widjaja, F. University of California, San Francisco	Felicia.Widjaja@ucsf.edu	133.159, 133.186	Wilson, L. B. University of Colorado Denver, Anschutz Medical Campus	lisa.wilson@ucdenver.edu	107.071, 112.199
Wiemann, S. German Cancer Research Center (DKFZ)	s.wiemann@dkfz.de	108.118	Winami, T. CEBIOR Diponegoro University	triindahw@gmail.com	133.173
Wier, K. University of Notre Dame	Kristin.G.Wier.1@nd.edu	133.209	Winder, B. M. Bryn Mawr College	bwinder@brynmawr.edu	157.046
Wiersema, J. R. Ghent University	Roeljan.Wiersema@UGent.be	111.196, 130.039, 141.129	Windham, G. California Department of Public Health	Gayle.Windham@cdph.ca.gov	121.149, 121.150
Wiesendanger, S. University of Applied Sciences Western Switzerland	sandra.wiesendanger@fr.educanet2.ch	131.048	Windpassinger, C. Medical University of Graz	christian.windpassinger@medunigraz.at	109.157
Wiggins, L. D. Centers for Disease Control and Prevention	lwiggins@cdc.gov	103.001, 121.149	Wing, L. National Autistic Society	lgwing@aol.com	117.051
Wijnroks, L. Utrecht University	A.Wijnroks@uu.nl	159.130	Wingate, M. University of Alabama at Birmingham	MWingate@ms.soph.uab.edu	122.188
			Wink, L. Indiana University School of Medicine	lwink@iupui.edu	131.056, 158.078

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Winn, M. E. University of California San Diego, Scripps Translational Science Institute	mewinn@ucsd.edu	109.136	Xu, J. University of Maryland School of Medicine	jennifexu@gmail.com	105.007
Winter, A. Columbia University	aw2257@columbia.edu	121.146	Xu, M. The George Washington University School of Medicine and Health Sciences	vervedels@gmail.com	109.151
Winter-Messiers, M. A. University of Oregon	messiers@uoregon.edu	139.081, 160.174	Xu, Y. Public Health College of Harbin Medical University, Nankai University, Wellcome Trust Genome Campus	yangxu@nankai.edu.cn	109.148
Wodka, E. L. Kennedy Krieger Institute	wodka@kennedykrieger.org	140.115, 161.198	Xuan, I. University of Toronto	ingrid.xuan@utoronto.ca	105.015
Wofford, D. Vanderbilt Medical Center	debbie.wofford@vanderbilt.edu	145.004	Xue, Y. Wellcome Trust Genome Campus	ylx@sanger.ac.uk	109.148
Wojcik, C. University of Nevada Reno	caroline.wojcik@gmail.com	110.173	<b>Y</b>		
Wolf, J. Yale University	julie.wolf@yale.edu	117.032	Yamamoto, J. Keio University	yamamotoj@flet.keio.ac.jp	132.112, 138.026
Wolff, J. University of North Carolina at Chapel Hill	jason.wolff@cidd.unc.edu	107.067, 152.001	Yanagisawa, R. Kyoritsu Women's University	wanwan.raykun@jade.plala.or.jp	142.184
Won, K. University of Pennsylvania	wonk@mail.med.upenn.edu	166.003	Yanaka, H. University of Fukui	hisa@u-fukui.ac.jp	106.055
Wong, C. York University	cwong87@yorku.ca	108.128, 109.156	Yang, G. The Lewin Group	grace.yang@lewin.com	122.185, 133.208
Wong, C. University of Hong Kong	cmgfung@hku.hk	107.093	Yang, P. Kaohsiung Medical University	pincheny@gmail.com	117.028, 138.017, 142.204
Wong, C. UNC Chapel Hill	connie.wong@unc.edu	132.142	Yang, X. School of Medicine, Department of Public Health, Division of Biostatistics, University of California, Davis	xdyang@ucdavis.edu	108.125
Wong, J. National University of Singapore	pcmwcwj@nus.edu.sg	121.143	Yang, X. Dana-Farber Cancer Institute, Harvard Medical School	xinping_yang@dfci.harvard.edu	109.166, 126.006
Wong, M. The University of Hong Kong	wong@psyclinic.com.au	131.096	Yao, G. University of Missouri	yaog@missouri.edu	157.025
Wong, P. T. Y. The University of Hong Kong	pollywongty@hku.hk	157.058	Yaspan, B. Center for Human Genetics, Vanderbilt University	brian.yaspan@vanderbilt.edu	109.145
Wong, V. C. The University of Hong Kong	vcnwong@hku.hk	109.149, 157.058	Yatchmink, Y. Hasbro Children's Hospital, Brown Alpert Medical School	yyatchmink@lifespan.org	117.026
Wood, J. J. University of California, Los Angeles	jwood@gseis.ucla.edu	114.003, 151.001, 158.061	Yau, S. Macquarie Centre for Cognitive Science	shu.yau@mq.edu.au	111.186
Woodhouse, E. Institute of Psychiatry, King's College London	Emma.Woodhouse@kcl.ac.uk	122.176	Yau, V. Kaiser Permanente Division of Research	Vincent.M.Yau@kp.org	118.086, 121.158
Worcester, E. University of California, San Diego	eworcest@ucsd.edu	132.148, 132.149	Ye, E. University of Texas Medical School	Enstin.S.Ye@uth.tmc.edu	133.178
Worley, P. Johns Hopkins University	pworley@jhmi.edu	105.005	Yeargin-Allsopp, M. Centers for Disease Control and Prevention	mxy1@cdc.gov	103.001, 118.083, 121.149
Worsham, W. Brigham Young University	whitney.worsham@byu.net	112.205, 112.214	Yerys, B. Children's National Medical Center	byerys@cnmc.org	107.078, 109.159, 139.074, 141.170, 159.110
Woynaroski, T. Vanderbilt University Medical Center	tiffany.g.woynaroski@vanderbilt.edu	115.002, 140.104, 141.150, 142.197	Yin, A. NY State Institute for Basic Research in Developmental Disabilities	msyinailan@gmail.com	110.169
Wu, C. C. Kaohsiung Medical University	jinnchin@mail2000.com.tw	159.126	Yin, L. Keck School of Medicine of USC	lyin@chla.usc.edu	123.204, 157.051
Wu, J. Yale Child Study Center	jia.wu@yale.edu	111.195	Yoder, P. Vanderbilt University	Paul.Yoder@vanderbilt.edu	159.114, 161.186
Wu, K. Harbin Medical University	wukun_15000@126.com	118.065	Yogo, H. Department of Radiology, Koujin Hospital	houka@kojin-hospital.jp	107.106
Wu, L. Harbin Medical University	lijiewu64@126.com	109.148, 118.065, 119.115, 140.087	Yoshihara, Y. Hamamatsu University School of Medicine	yoshi-yu@coffee.ocn.ne.jp	107.106, 152.003
Wu, R. University of Washington	rmwu@u.washington.edu	109.138	Youmatz, A. Childrens National Medical Center	ayoumatz@cnmc.org	131.094
<b>X</b>			Young, G. S. UC Davis MIND Institute	gregorys.young@ucdmc.ucdavis.edu	137.001, 159.136
Xenitidis, K. South London and Maudsley NHS trust	kiriakos.xenitidis@kcl.ac.uk	119.107, 123.202			
Xia, L. The First Hospital of Harbin Medical University	xialeivf@126.com	118.065, 140.087			
Xia, W. Harbin Medical University	xiawei1023@126.com	118.065, 119.115, 140.087			
Xie, M. University of Pennsylvania School of Medicine	xiem@mail.med.upenn.edu	119.099, 120.130			
Xu, D. LENA Foundation	DongxinXu@lenafoundation.org	129.027, 132.144, 135.007			

# ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Young, J. University of California, San Diego	julia.young87@gmail.com	152.002	Zeedyk, S. University of California, Riverside	szeedyk@gmail.com	142.189
Young, K. Deakin University	ms.kayleigh.young@gmail.com	112.215	Zelazo, P. R. Montreal Autism Centre, McGill University	philip.zelazo@mcgill.ca	158.090
Young, L. Emory University	lyoun03@emory.edu	105.006	Zemon, V. Yeshiva University	vepman@aol.com	111.189
Young, L. University of Pennsylvania, School of Nursing	younglm@nursing.upenn.edu	103.001, 121.149	Zerbo, O. University of California Davis	ozerbo@ucdavis.edu	118.066
Young, R. L. Flinders University of South Australia	Robyn.Young@flinders.edu.au	139.042	Zhang, J. University of Michigan	junz@umich.edu	117.003
Young, S. Institute of Psychiatry, King's College London	susan.young@kcl.ac.uk	122.176	Zhao, C. The Hospital for Sick Children	chunhua.zhao@sickkids.ca	109.143
Youngstrom, E. University of North Carolina at Chapel Hill	eay@unc.edu	103.003, 148.004, 166.007	Zhao, D. Harbin Medical University	zdd19861007@163.com	118.065
Yu, C. St. Amant Research Centre, University of Manitoba	yu@stamant.mb.ca	120.131	Zhou, D. School of Medicine, Department of Public Health, Division of Biostatistics, University of California, Davis	daozhourun@gmail.com	108.125
Yu, K. University of Hong Kong	kakiyu@graduate.hku.hk	107.093	Zhou, X. Harbin Medical University	snowweek@hotmail.com	109.148, 119.115
Yuce, T. Boston University	tyuce17@hotmail.com	110.174	Zierhut, C. Autism Specific Early Learning and Care Centre at La Trobe University	cynthia.zierhut@ucdmc.ucdavis.edu	132.128, 132.129
Yusko, B. Florida International University	byusko@fiu.edu	135.004, 135.003	Zimmer, C. University of Regina	zimmer5c@uregina.ca	133.166
<b>Z</b>			Zimmerman, A. W. Lurie Center for Autism, MassGeneral Hospital for Children	Zimmerman@kennedykrieger.org	133.163, 133.179
Zablotsky, B. Johns Hopkins Bloomberg School of Public Health	bzablots@jhsph.edu	122.167, 123.203, 133.179	Zimmerman, J. University of Utah	judith.zimmerman@hsc.utah.edu	142.173
Zachor, D. A. Tel Aviv University / Assaf Harofeh Medical Center	dzachor@smile.net.il	117.024, 122.166	Zimmerman, R. Rutgers University	zimmerman@biology.rutgers.edu	166.005
Zahka, N. Cincinnati Children's Hospital Medical Center	nicole.zahka@gmail.com	161.206	Zimmerman-Bier, B. Saint Peter's University Hospital	zimmermanbier@gmail.com	117.046
Zahorodny, W. UMDNJ-New Jersey Medical School	zahorodny@umdnj.edu	117.056, 122.181, 141.162	Zinkstok, J. Institute of Psychiatry, King's College London	janneke.zinkstok@iop.kcl.ac.uk	107.104
Zaidman-Zait, A. University of British Columbia	anat.zaidman@ubc.ca	158.101	Zinn, G. Duquesne University	zinng@duq.edu	157.024
Zakai-Mashiach, M. Tel Aviv University	matizakai@gmail.com	120.136	Zinni, M. University of California, San Diego	mzinni@ucsd.edu	111.178
Zampella, C. University of Rochester	czampell@psych.rochester.edu	140.116, 140.117, 154.004	Zipursky, L. HHMI/UCLA	lzipursky@mednet.ucla.edu	105.019
Zamzow, R. University of Missouri	rachel.zamzow@mail.missouri.edu	157.028	Ziv, M. Tel Aviv University	mziv@post.tau.ac.il	120.136
Zanatta, G. Federal University of Rio do Sul (UFRGS)	geancarlo.zanatta@gmail.com	105.010	Zuniga, M. Children's Specialized Hospital	mzuniga@childrens-specialized.org	128.001
Zancanaro, M. Bruno Kessler Foundation	zancana@fbk.eu	129.012	Zurawski, M. Seattle Pacific University	zurawskim@spu.edu	142.207
Zand, D. Saint Louis University School of Medicine	dzand@slu.edu	118.090	Zwaigenbaum, L. University of Alberta	Lonnie.Zwaigenbaum@albertahealthservices.ca	102.007, 103.007, 117.038, 119.109, 120.118, 120.134, 123.208, 123.209, 123.210, 123.211, 123.214, 132.150, 133.204, 133.205, 135.001, 135.006, 136.001, 137.001, 138.021, 139.057, 140.085, 141.138, 142.176, 152.001, 157.039, 158.101, 161.177
Zander, E. Karolinska Institutet	eric.zander@sll.se	121.148			
Zanon, R. Federal University of Rio Grande do Sul	rebzanon@gmail.com	159.131, 161.199			
Zarcone, J. Johns Hopkins School of Medicine	jennifer_zarcone@urmc.rochester.edu	133.197			
Zavacki, A. HMS/BWH	azavacki@rics.bwh.harvard.edu	108.127			
Zavatnay, D. Marcus Autism Center, Children's Healthcare of Atlanta, & Emory School of Medicine	dana.zavatnay@choa.org	120.121			

## IMFAR Annual Meeting – International Meeting for Autism Research

The year 2012 marks the 11th International Meeting for Autism Research (IMFAR). The IMFAR Annual Meeting was convened for the first time in November 2001, to provide ASD researchers from around the world with a focused opportunity to share the rapidly moving scientific investigation of ASD.

Until that meeting, ASD researchers competed with many other groups for the opportunity to share their work at large scientific meetings that covered a wide range of topics. While other meetings provided some opportunity to share high quality ASD research, none of them focused specifically on ASD. Funding for ASD research has increased steadily, highlighted by the emergence of private foundations, such as Autism Speaks and several NIH initiatives: The Autism Centers for Excellence (ACE), which replaces earlier NIH programs – The Collaborative Programs of Excellence in Autism (CPEA) and the Studies to Advance Autism Research and Treatment (STAART) network program. Stimulating more scientific progress in understanding ASD requires dedicated yearly venue for ASD researchers to share their findings and their resources.

Scientific progress in ASD also requires the continuous development of new scientists, from many disciplines. Scientific progress in ASD is dependent upon increasing the number and expertise of scientists working in this ASD from the wide array of the biological and behavioral sciences. Given the complex biological and behavioral nature of ASD, interdisciplinary training and ongoing mentoring of new scientists and promising graduate students is necessary to recruit talented young people in ASD research. We want to provide them with the motivation and mentoring needed to focus a career on ASD and related developmental disorders. Having an annual interdisciplinary meeting focused on scientific progress in understanding and treating ASD provides an unparalleled opportunity for recognizing, supporting, and motivating talented graduate students and postdoctoral fellows into a career in ASD research.

## Objectives of the Meeting

1. The International Meeting for Autism Research (IMFAR) is an annual scientific meeting, convened each spring, to exchange and disseminate new scientific progress among ASD scientists and their trainees from around the world. The first and primary aim of the meeting is to promote exchange and dissemination of the latest scientific findings and to stimulate research progress in understanding the nature, causes, and treatments for ASD.
2. Research on ASD involves sophisticated behavioral and biological approaches. ASD affects people's functioning in virtually every domain, requiring interdisciplinary research collaboration to gain comprehensive knowledge of the disorder. A second aim of the meeting is to foster dialogue among ASD scientists across disciplines and across methods.
3. The third aim is to promote the training and development of new ASD scientists by supporting the inclusion of postdoctoral and predoctoral trainees as well as junior faculty who are already working in ASD research. The opportunity for trainees and junior faculty to interact with established ASD scientists will foster the creativity and productivity of those at all levels.
4. The fourth aim is to foster diversity among ASD scientists by encouraging attendance and supporting access to the meeting for scientists and trainees from members of traditionally underrepresented groups, including those from ethnic minority groups, and those with disabilities.

## Abstracts

Abstracts from the 2012 Annual Meeting are available on the INSAR website. An archive of past meeting abstracts is also available online.

## Insurance, Liabilities

INSAR cannot be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, rail, sea, road, or other services, strikes, sickness, weather, acts of terrorism and any other cause. All participants are encouraged to make their own arrangements for health and travel insurance.

## Exhibits

The Exhibit Hall is an integral part of the learning experience. Attendees will have an ideal opportunity to learn about the latest in pharmaceuticals, publications, scientific equipment, and technology relevant to the fields of epilepsy and neurophysiology. Please check the IMSAR website for an updated listing of exhibiting companies and organizations. To ensure safety and security, no children, strollers, carriages, wheeled luggage or wheeled briefcases will be allowed in the Exhibit Hall during exhibit hours.

Thursday, May 17 .....8:00 a.m. – 5:00 p.m.  
 Friday, May 18 .....8:00 a.m. – 5:00 p.m.  
 Saturday, May 19.....8:00 a.m. – 1:00 p.m.

## Wireless Internet

Wireless internet is available for all meeting rooms from Wednesday, May 16 – Saturday, May 19. Please follow instructions below to access.

Tip: If your browser's home page is set to your company's intranet site (i.e., <http://intranet.mycompany.com>), click the "Stop" button and go to a normal website such as [www.sheraton.com](http://www.sheraton.com) to be signed on. You will be able to access your intranet site once you have successfully connected.

- Connect to the SSID : SHERATON\_MEETINGS
- Start your internet browser before using any other internet applications such as email, chat, or VPN software. You will be automatically redirected to the Sheraton Centre's portal site.
- Click the "Connect Now" link to go to the sign on page and enter the following username and password information:
- Username: **IMF11**
- Password: **lovomy**

## Language

The official language of the Annual Meeting is English. No simultaneous translation is available.

## Photography and Recording of Programs

INSAR strictly prohibits all photography (flash, digital, or otherwise), audio and/or videotaping during the Annual Meeting. Equipment will be confiscated. Photographs taken during this meeting by INSAR may be used in any of the Society's communications and materials in the furtherance of the organization's goals and purposes.

## Press Room

The Press Room is located on the second floor of the Sheraton Centre Toronto in the Wentworth Room. Press Room hours are:

Wednesday, May 16.....Noon – 5:00 p.m.  
 Thursday, May 17 .....8:00 a.m. – 5:00 p.m.  
 Friday, May 18 .....8:00 a.m. – 5:00 p.m.  
 Saturday, May 19 .....8:00 a.m. – Noon

## Program Changes

INSAR cannot assume liability for any changes in the program due to external or unforeseen circumstances.

## Hotel Information and Meeting Location

Sheraton Centre Toronto  
 123 Queen Street West  
 Toronto, Ontario CANADA M5H 2M9  
 Phone: 416.361.1000  
 Fax: 416.947.4854

Early Departure Policy: Guest who check out of the hotel prior to their scheduled departure date will be charged a \$50 Early Departure Fee.



## Business Center

There is a Business Center within the Sheraton Centre Toronto and it is located on the Main Lobby Level of the hotel. It is open from 8:00 a.m. – 6:00 p.m., Monday – Friday.

## No Smoking Policy

For the comfort and health of all attendees, smoking is not permitted at any IMFAR functions. This includes educational sessions, meetings and all food functions. The Sheraton Centre Hotel is a 100% smoke-free facility.

## Information for International Travelers

**Consulates and Embassies:** All international embassies from other countries to Canada are located in Ottawa Canada. There are a number of international embassy branch offices, called consulates, located in Toronto including the United State Consulate. If your country does not have a consulate in Toronto, call directory information for Ottawa (613.555.1212) for the number of your national embassy. The phone number for the U.S. Consulate in Toronto is 416.595.1700.

## Gratuities

Gratuities are not automatically added to the bill, except in some cases for large groups. Waiters and waitresses are usually given 15% to 20% of the bill. Taxi drivers usually receive 15% of the fare and doormen, skycaps and porters are normally tipped \$1 per bag.

## Registration and Security

IMFAR is committed to providing a secure meeting environment. A formal security plan is in place with the Security Department at the Sheraton Centre Toronto. All meeting attendees will be required to produce government-issued photo identification prior to receiving their badge and registration materials. Appropriate badges must be worn at all times while in attendance at the meeting and are required for admittance to all meeting activities. Special security procedures are also in place for exhibition materials and all deliveries to the IMFAR meeting.

## Safety and Security Information

The Sheraton Centre Hotel security team is on-site 24 hours/day. Security can be reached by dialing "0" from any guest or house phone, or by contacting 4500 - Executive Meeting Specialist

The security team is certified in First-Aid, CPR, and AED Defibrillator. We have defibrillators on the premises. In case of a fire alarm, announcements will be made over the public address system. Please listen carefully to these announcements.

Appropriate badges will be required to enter all educational sessions, Poster Sessions, the Exhibit Hall and meetings. Due to safety and fire regulations, doors will be closed to all session rooms that fill to capacity. Throughout the meeting, you will notice a presence of security staff to monitor the safety of all participants. Do not leave unattended packages (i.e., briefcases, laptops, purses, etc.) in any area of the hotel. Please report any suspicious activity to security staff or to the IMFAR registration desk staff.

## General Safety Tips

- Remove your badge once you leave the meeting facilities
- Carry important telephone numbers with you
- Do not display or carry large amounts of cash
- Walk in groups, especially at night
- Lock your hotel room door
- Always verify hotel room repair or service calls
- Do not disclose your room number to anyone
- Never give your personal information over the phone; instead, go to the front desk if the hotel calls with questions

## Contact Information

International Society for Autism Research (INSAR)  
342 North Main Street  
West Hartford, CT 06117-2507  
INSAR@autism-insar.org  
www.autism-insar.org

## Membership

Join  
INSAR!

[www.autism-insar.org](http://www.autism-insar.org)

INSAR membership is open to individuals engaged in academic or research activities (full members), graduate students and postdoctoral researchers (student members) and others (affiliate members) vested in the study of autism spectrum disorders (ASDs).

Currently, the membership benefits entail the following:

- Free abstract submission to annual IMFAR meeting
- Reduced registration fee for annual IMFAR meeting
- Eligibility to submit Educational Symposia proposals for IMFAR
- Free audio and/or video files of IMFAR presentations (Keynotes, IES, etc)
- Online subscription to *Autism Research* journal
- Ability to vote and run for elected office in INSAR
- Submit job postings for the INSAR website (postings can be viewed by all visitors)
- Online membership directory

In order to qualify for membership, fees must be paid annually and an initial application must be submitted to the INSAR Membership Committee.

Visit the INSAR website at [www.autism-insar.org](http://www.autism-insar.org) today to complete a membership application.

# EXHIBITORS

## Aldebaran Robotics

374 Congress Street  
Boston, MA 02210  
Email: [americas@aldebaran-robotics.com](mailto:americas@aldebaran-robotics.com)  
[www.aldebaran-robotics.com](http://www.aldebaran-robotics.com)

Aldebaran Robotics was founded in 2005 in Paris to develop and market humanoid home robot companions. NAO robot has become internationally recognized robotics platform used in education and research. More than 480 prestigious universities, labs and high schools worldwide are working daily with NAO. Aldebaran Robotics is conducting research in areas such as autistic child therapy, human-robot interaction and personal robotics.



## Autism Research Institute

4182 Adams Ave.  
San Diego, CA 92116  
(619) 281.7165  
[www.autism.com](http://www.autism.com)

The Autism Research Institute (ARI) is the hub of a worldwide network of parents, clinicians, and researchers. ARI was founded in 1967 by Dr. Bernard Rimland, and its mission is to conduct, foster, and disseminate scientific research on prevention, diagnosis, and treatment. ARI sponsors [www.autism.com](http://www.autism.com), biannual conferences, and think tanks.



## Autism Science Foundation

Jonathan Carter  
Operations Manager  
419 Lafayette Street  
New York, NY 10003  
Phone: (646) 723-3978  
Email: [jcarter@autismsciencefoundation.org](mailto:jcarter@autismsciencefoundation.org)  
[www.autismsciencefoundation.org](http://www.autismsciencefoundation.org)

The Autism Science Foundation provides funding directly to scientists conducting cutting-edge autism research to discover the causes of autism and to develop better treatments for children, teens and adults with autism. We also provide information about autism to the general public and support the needs of individuals with autism and their families. ASF is a non-profit organization.



## Autism Speaks

Dana Marnane  
Vice President, Awareness & Events  
1 East 33rd Street, 4th Floor  
New York, NY 10016  
Phone: (212) 252-8584  
Email: [dmarnane@autismspeaks.org](mailto:dmarnane@autismspeaks.org)  
[www.autismspeaks.org](http://www.autismspeaks.org)

Autism Speaks, ([www.autismspeaks.org](http://www.autismspeaks.org)), founded in 2005 by Suzanne and Bob Wright, is the world's leading autism science and advocacy organization, dedicated to funding research into the causes, prevention and treatments, and a cure for autism; increasing awareness of autism spectrum disorders; and advocating for the needs of individuals with autism and their families.



## BioHug Technologies

Andrew Schiffmiller, CEO  
P.O. Box 25321  
Haifa 31250, Israel  
Phone: 972-54-628-1827  
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## Electrical Geodesics, Inc.

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Maria Marquez  
Global Recruitment Manager  
Harborside Financial Center, Plaza 5  
Jersey City, NJ 07311  
Phone: (201) 427-8430  
Email: [maria.marquez@frx.com](mailto:maria.marquez@frx.com)  
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Forest Laboratories' (NYSE: FRX) longstanding global partnerships and track record developing and marketing pharmaceutical products in the United States have yielded its well-established central nervous system and cardiovascular franchises and innovations in anti-infective and respiratory medicine. The Company's pipeline, the most robust in its history, includes product candidates in all stages of development across a wide range of therapeutic areas. The Company is headquartered in New York, NY.



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The LENA Pro System was specifically designed for researchers, speech language pathologists, audiologists, and pediatricians. LENA allows you to easily collect, process, and analyze language environment and development data for children ages 2 to 48 months, including measurements like the number of words spoken to a child, conversational turns and child vocalizations.



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Lineagen's mission is to accelerate and enhance the diagnostic evaluation of ASD. FirstStepDx provides physicians with a fully integrated genetic testing, counseling, reporting, and developmental screening service to aid in the diagnostic evaluation of children with ASD.



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## National Database for Autism Research

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Bethesda, MD 20817  
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www.NDAR.NIH.gov

The National Database for Autism Research (NDAR) is a research data repository promoting scientific data sharing and collaboration. Established by the NIH, NDAR's goal is to help accelerate scientific discovery through data sharing, harmonization, and reporting of results. Today, data from over 25,000 research subjects are freely available to qualified investigators.



## National Institutes of Health

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## NeuroDevNet

Bethany Becker  
Communications Manager  
950 West 28th Avenue  
Vancouver, BC  
V5Z 4H4  
Canada  
Phone: (604) 875-2424 x 5591  
Email: bbecker@neurodevnet.ca  
www.neurodevnet.ca

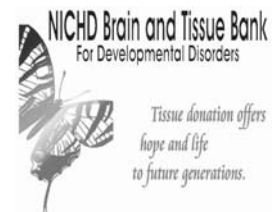
NeuroDevNet is a Canadian Network of Centres of Excellence dedicated to helping children with neurodevelopmental disorders. We focus on Autism Spectrum Disorder, Fetal Alcohol Spectrum Disorder, and Cerebral Palsy, with the aim of accelerating understanding of children's brain disorders and transferring this knowledge to health care professionals, policy makers, and communities of interest.



## NICHD Brain and Tissue Bank for Developmental Disorders

Dr. Ron Zielke  
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Baltimore, MD 21201  
Phone: (410) 706-6911  
Email: btbumab@umaryland.edu  
www.Btbank.org

The NICHD Brain and Tissue Bank for Developmental Disorders was established in 1991 to serve as a tissue resource center with the goals of collecting, storing and distributing human tissue for medical research. The Bank works with individuals, support groups and researchers to offer hope and life to future generations.



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Rockville, MD 20852  
laccpublicinquiries@mail.nih.gov  
www.iacc.hhs.gov

The Office of Autism Research Coordination (OARC) coordinates the activities of the Interagency Autism Coordinating Committee (IACC), which is a federal advisory committee mandated by Congress to coordinate autism related activities across the U.S. Department of Health and Human Services.

## Oxford University Press

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