

8th Annual International Meeting For Autism Research (IMFAR)

Chicago May 7–9, 2009



Program

Wednesday May 6 th				
5:00-8:00P	Registration (Normandie Lounge)			
Thursday May 7 th				
7:00A- 5:00p	Registration (Normandie Lounge)			
7:45-8:40A	Coffee and Pastries (Normandie Lounge & Grand Ballroom Foyer)			
8:40-9:00A	Introduction/Autism Speaks Strategic Plan - Geraldine Dawson (Grand Ballroom)			
9:00-10:00A	Fulfilling the Promise of Molecular Medicine In Autism. M. Bear, MIT (Grand Ballroom)			
9:00-1:00P	Poster Presentations I (Northwest Hall)			
10:00-10:30A	Break (Northwest Hall and Normandie Lounge)			
10:30A-12:30P	Invited Educational Symposium Before, During and After Diagnosis and Phenotyping (Grand Ballroom)	Oral Presentations: Medical (Northwest Hall 1)	Oral Presentations: Cognition (Northwest Hall 2)	Oral Presentations: Molecular Genetics (Northwest Hall 5)
12:30-1:30P	Box Lunch			Normandie Lounge
12:45-1:20P	Update on NIH Strategic Plan for Autism Research			Grand Ballroom
1:30-5:30P	Poster Presentations II			Northwest Hall
1:30-3:50P	Invited Educational Symposium: Mouse Models as Translational Tools to Discover Treatments for Autism Spectrum Disorders (Grand Ballroom)	Oral Presentations: Genetics (Northwest Hall 1)	Oral Presentations: Neuroimaging (Northwest Hall 2)	Oral Presentations: Screening (Northwest Hall 5)
3:50-4:30p	Break (Normandie Lounge & Grand Ballroom Foyer)			
4:30-6:00P	Lifetime Achievement Award and Presentations: From Infancy to Imaging: Autism and the Developmental Psychology of Marian Sigman (Grand Ballroom)			
6:00-7:00P	INSAR Business Meeting (Grand Ballroom)			
Friday May 8 th				
7:00- 5:00p	Registration (Normandie Lounge)			
7:00-8:30A	Special Interest Group: Sleep and Autism (Northwest Hall 5)			
7:45-4:00P	Exhibits (Grand Ballroom Foyer)			
7:45-8:40A	Coffee & Pastries (Normandie Lounge & Grand Ballroom Foyer)			
8:40-10A	Keynote Address: What Would "Better" Diagnoses of ASDs Look Like? (Grand Ballroom)			
9:00-5:30P	Innovative Technologies Demonstration Session (Boulevard Room)			
9:00-1:00P	Poster Presentations III (Northwest Hall)			
10:00-10:30A	Break (Northwest Hall and Normandie Lounge)			
10:30A-12:30P	Invited Educational Symposium: Neuropathology and Neuroimaging (Grand Ballroom)	Oral Presentations: Motor Function (Northwest Hall 1)	Oral Presentations: Toddlers (Northwest Hall 2)	Oral Presentations: Epidemiology (Northwest Hall 5)
12:30-1:30P	Box Lunch (Normandie Lounge & Grand Ballroom)			
1:30-5:30P	Poster Presentations IV (Northwest Hall)			
1:30-3:30P	Invited Educational Symposium: Psychiatric Comorbidities and Treatment (Grand Ballroom)	Oral Presentations: Animal Models (Northwest Hall 1)	Oral Presentations: School/ Memory/Mentalizing (Northwest Hall 2)	Oral Presentations: Face Processing (Northwest Hall 5)
3:30-4:00p	Break (Northwest Hall and Normandie Lounge)			
4:00-6:00P	Oral Presentations: Imaging - Medical Implications? (Northwest Hall 1)	Oral Presentations: Molecular Genetics II (Northwest Hall 2)		Oral Presentations: Infant Siblings (Northwest Hall 5)
Saturday May 9 th				
7:00A- 1:30p	Registration (Normandie Lounge)			
7:30A-9:30A	Exhibits (Grand Ballroom Foyer)			
7:30A-8:30A	Coffee & Pastries (Normandie Lounge & Grand Ballroom Foyer)			
8:30A-9:30A	Keynote Address: Copy Number Variations (CNVs) In Autism: What Do They Mean? (Grand Ballroom)			
9A-1:00P	Poster Presentations V (Northwest Hall)			
9:30A-10:00A	Break (Northwest Hall and Normandie Lounge)			
10:00A-12:00P	Invited Educational Symposium: Molecular Genetics of Autism (Boulevard Room)	Oral Presentations: Neuropathology (Northwest Hall 1)	Oral Presentations: Emotion/Social Skills Intervention/Screening (Northwest Hall 2)	Oral Presentations: Longitudinal Studies/ Early Intervention (Northwest Hall 5)
12:00P-1:00P	Box Lunches			Normandie Lounge
1:00-3:00P	Oral Presentations: Diagnosis (Northwest Hall 1)	Invited Educational Symposium: Menage A Trois: Immune System, Brain and Behavior – Relationships Between the Three (Northwest Hall 2)		Oral Presentations: Neuroimaging - Connectivity (Northwest Hall 5)

IMFAR Welcome

Welcome to the 8th annual International Meeting for Autism Research (IMFAR). We are very pleased to be able to host this meeting in Chicago.

IMFAR continues to sustain its growth with over 850 submitted abstracts from countries around the globe and over 1300 registrants. We have also made a number of incremental changes to the format of the meeting, in line with feedback that we have received over the years and these are outlined in the following pages. Clearly each of these changes to the format will alter the feeling of the meeting and we will be eager to hear from each of you about their effectiveness as we make plans for next year's meeting. Please give us your appraisal by completing the online feedback form that will be available on the INSAR home page after the meeting.

We wish to thank the many contributors to INSAR and IMFAR. The success of the meeting is due to the dedication and hard work of many individuals, including the INSAR Board, the Scientific Program Committee, those who took time to review Abstracts and the generosity of those who provide funding for the meeting. Financial support for this meeting came from private foundations and public agencies and we are grateful to each of these (in alphabetical order): the Autism Society of America, Autism Speaks, the National Institutes of Health, and the Simons Foundation. If you have the opportunity, please express your gratitude to members of these groups who will all be present at the meeting. Finally, a number of exhibitors provide financial support in return for space at the meeting and we hope that you will find their exhibits of interest and help. We hope that you will find the 3 days stimulating, sociable and educational.

Welcome to Chicago!

Ed Cook MD
IMFAR Program and Conference Chair

Bob Schultz PhD
President, INSAR

President's Address

President's Welcome and Society News

It gives me great pleasure to welcome you to the 8th annual meeting of the International Society for Autism Research (INSAR). It is exciting to see how fast the IMFAR meeting has grown (from 300 attendees in 2001, to more than 1300 this year). Please mark your calendar's now for next year's meeting, to be held in **Philadelphia, Pennsylvania, May 20-22, 2010**. As you know, IMFAR is the official scientific meeting for the Society. As such, I want to take this opportunity to update you on Society activities over the past year.

One of our major achievements of 2008 was the creation of the Society's official journal — **Autism Research** (www.autismresearchjournal.com). Our first issue was published in March of 2008, and we ended the year with our 6th issue published in December. We will continue to publish every other month, before becoming a monthly publication within a few years. Judging from the number of full text article downloads (over 14,000 times in the first year alone), as well as the feedback from scientific community, our new Journal is already a resounding success. Autism Research's Editorial Board is composed of numerous well recognized leaders in the field. I am very thankful for the efforts of the Journal's Editor-in-Chief – Anthony Bailey, and the Associate Editors — Ed Cook, Sally Rogers, Jim Sutcliffe, as well as the for the tireless work of our publisher Ms. Colette Bean of Wiley-Blackwell, Inc. **Autism Research is now referenced on Medline** — a major accomplishment for us after only one year of publishing. Content is indexed in Medline prospectively and retrospectively (back to Volume 1, Issue 1). This will definitely lead to an increase in the overall number and quality of the journal submissions. In our first year, we were already very selective, rejecting more papers than we accepted. Now that we are indexed on Medline, we are in an excellent position for achieving our eventual goal of becoming the highest impact journal in our field.

The Society's webpage (<http://autism-insar.org/>) continues to be a source of important information, containing Society news, an archive of past IMFAR meeting abstracts, a jobs board, and links to Autism Research, funding sources and other autism organizations. All INSAR members are entitled to free online access to Autism Research. In order to receive this benefit, you must

1. Register with Wiley by going to <http://www3.interscience.wiley.com>, clicking on "register now" in the upper right corner of the screen. Complete the *New User Registration Page*
2. Go to the Member Registration Page at www.interscience.wiley.com/societies/aur, and enter your *Identification details*, including your membership number and registration key, provided by INSAR when you join as a member

As you may have noticed when registering for this year's meeting, INSAR continues to grow and change. We have hired a professional society management firm — **Association Resources** (AR), based in West Hartford, CT, USA, to give us a permanent address, daily phone coverage (860 586-7575 x534), financial management services, and to run meeting registration and society membership services online. For the second year in a row we have asked Confex to handle abstract submission. Mixxmedia continues to serve as our webmaster. And this year we hired **Conference Direct** to handle the work of organizing and running the meeting. We are indebted to each of our strategic partners and we thank them for their many efforts.

In closing, I want to draw attention to and to thank the members of **INSAR's Board of Directors**: Peter Mundy (VP), Katherine Loveland (Treasurer), Jennifer Pinto-Martin (Secretary), Sally Rogers (ex officio), Tony Bailey (Editor), Tony Charman (IMFAR 2008 Meeting Chair), Manny Diccio Bloom (IMFAR 2008, Program Chair), as well as various committee chairs (Membership — Nurit Yirmiya; Elections — Joe Piven; Student — Matthew Goodwin; Webpage — Stephen Sheinkopf & Matthew Goodwin). The Society is indebted to them and I am greatly appreciative of their many hours of volunteer service. I want to draw particular attention and to give a special thanks to **Ed Cook** for Chairing both the Meeting and the Scientific Program for IMFAR 2009 – it has been a herculean effort, and a job very well done! I also want to give a special thanks to **Kate Loveland**; as you might imagine, the job of the Treasurer is mission critical, and we could never had made so many changes in our management structure this past year without her tireless efforts. She has been an outstanding Treasurer! I also want to extend a special thanks to **Autism Speaks, the Autism Society of America, the National Institutes of Health**, and to the **Simons Foundation** for their continuing support. We could not run such a high quality meeting without their financial support – thanks!

Finally, I want to welcome in the newly **Elected INSAR Board**:

David Amaral, President
Simon Baron-Cohen, Vice President
Laura Klinger, Treasurer
Debbie Fein, Secretary

I have greatly enjoyed my two years as President, and look forward to the next two years as the ex-officio Board member. It has been an honor to serve you, and I am very pleased to be leaving the Society in such capable hands — we have an outstanding incoming Board!

Sincerely,

Bob Schultz

IMFAR 2009 Scientific Program

Dear IMFAR Delegate,

We have instituted many exciting changes this year in the scientific program that should enhance communication and learning throughout the meeting. Along with these changes in meeting structure, you will notice the dramatic expansion of the Program Book to include the title and location of every one of the greater than 850 submitted abstracts. There are two new features in the program this year, both on Friday. Friday morning begins with a Special Interest Group on Sleep. Depending on your feedback and interest, next year, more special interest groups may be introduced, designed to facilitate collaboration on development of an area of autism research. In addition, there is a Technology Demonstration Session on Friday to allow more full presentation of innovative developments in technology related to autism research and practice.

The meeting is organized into six (6) half day intervals, each with a separate section in the Program Book.

For each morning, we start with a Keynote Speaker, followed by a Coffee Break, to allow room re-organization. Then over the next two hours, we have the Invited Educational Symposium (IES) that is comprised of 3-4 speakers that occurs in parallel with three Oral sessions. Throughout the morning, one has the option to visit posters (up for the entire half day). Presenters will be present for at least the hour indicated by the time stated in the program. This year the Program Book again lists every presented abstract, especially the posters, which comprise greater than 80% of all communications, a new feature to enhance your ability to find the information and authors you choose at the meeting.

POSTER PRESENTATIONS: All Posters will be presented for a half day period, in the Northwest Hall in the basement. You will find the push pins needed to hang your posters in each room. Your poster should be up during the full 4 hour period of the session. While you are welcome to be at your poster for the entire half day period, presenters are required to attend their posters during the one hour period starting at the assigned time noted in the Program Book. Do promptly remove your poster at the end of each session, especially after the morning session, since there will only be 30 minutes between the morning and afternoon poster sessions on Thursday and Friday.

The afternoon of each day starts with lunch. The second poster session of the day starts after lunch. Immediately after lunch, there is another series of parallel IES and Oral presentations. Then after we take a Coffee Break, the Lifetime Achievement Award ceremony occurs on Thursday, and sets of Oral presentations occur on Friday. Of course throughout the afternoon, one has the option to visit posters when the presenters are present, or anytime else.

The Program Book is organized into sections devoted to each half day. To help you know immediately what is scheduled for each half day, the entire program is briefly organized over the first few pages. This way you can plan to attend Keynotes and IES sessions without having to page through all the titles of every individual abstract in the Oral and Poster sessions. Nonetheless, each half day lists every abstract presentation that occurs, six of them in each Oral session, and about 140 poster presentations in each half day. The convenient Author Name Index at the back provides you with every abstract number the author is associated with, the one on which she/he is presenting author (in **BOLD**).

The Abstract Book contains every abstract in order of presentation and also the descriptive paragraphs provided by Keynote Speakers, Lifetime Achievement Award Presenters, and IES Organizers and Speakers. It also contains the Author Name Index. This book is available in PDF format from the INSAR website. We hope the new meeting structure and Program/Abstract Books provide a more rich experience for the autism community, especially as we continue to grow at such a remarkable pace.

Ed Cook, MD
Scientific Program Committee Chair

IMFAR 2009 Awardess

Student Awards

Adams, Nena	University of Bristol
Akechi, Hironori	University of Tokyo
Bandstra, Nancy	Dalhousie University
Bargiacchi, Anne	University of Paris Diderot
Beuker, Karin	Adboud University
Boada, Leticia	University of Madrid
Cochran, Lynne	Trinity College
Cook, Jennifer	University College London
Coskun, Murat	University of Istanbul
Crane, Laura	University of London
Dillon, Ashley	UCLA
Dvorzynski, Katharina	Kings College London
Esposito, Gianluca	University of Trento
Fullgrabe, Christian	Cambridge
Garib-Penna, Sara	University E. London
Gutierrez, Becky	UC San Diego
Holt, Claire	University of Manchester
Johnston, Patrick	Kings College London
Koh, Hwan Cui	University of Sheffield
Lai, Meng-Chuan	Cambridge
Lemcke, Sanne	University of Aarhus
Lombardi, Michael	Cambridge
Marcu, Gabriela	UC Irvine
Massand, Esha	City University London
Philip, Ruth	University of Edinburgh
Saotome, Akiyuki	Bunkyo University
Scheeren, Anke	VU University Amsterdam
Sheppard, Elizabeth	University of Nottingham
Skokauskas, Norbert	Trinity College
Stagg, Steven	University of London
Stanfield, Andrew	University of Edinburgh
Tansey, Katherine	Trinity College
Tavassoli, Teresa	Cambridge
Vickerstaff, Sandy	University of Sydney
Yehonatn Schori, Maya	Bar Ilan University

Diversity Awards

Brookman-Frazee, Lauren	UCSD
Carrasco, Melisa	University of Michigan
Hyekyeung, Seung	CSU Fullerton
Kim, Sophy	University of Michigan
Kleinhans, Natalia	University of Washington
Lee, Iris	Boston University
Oti, Rosalind	University of Michigan
Pandey, Juhey	Children's Hospital of Philadelphia
Reyes, Nuri	Virginia Tech
Rivera, Vanessa	University of Washington
St. John, Tanya	University of Washington
Vallero, Roxanne	UC Davis
Villabos, Michele	University of Utah

Professionals from Developing Countries Awards

Bakare, Muideen	Nigeria
Gaddour, Naoufel	Tunisia
Khare, Rachna	India
Kittisopit, Jarawan	Thailand
Singhal, Nidhi	India
Wang, Chonying	China
Wang, Lixin	China

Dissertation Awards

Aldinger, Kimberly	University of Chicago — Identification of chromosome 6p25 genes involved in Dandy-Walker malformation: the role of FOXC1 in cerebellar development and implications for cerebellar genes in autism
Faja, Susan	University of Washington — The role of motivation in the executive function and symptom expression of young children with autism spectrum disorders
Vivanti, Giacomo	UC Davis — From action understanding, to imitation, to conceptual categorization: An eye-tracking study on autism and typical development

Young Investigator Awards

Kumar, Ravinesh	University of Chicago — Recurrent 16p11.2 microdeletions in autism
Siller, Michael	City University of New York — Modeling longitudinal change in the language abilities of children with autism: parent behaviors and child characteristics as predictors of change

Lifetime Achievement Award

Sigman, Marian	University of California at Los Angeles
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Acknowledgments

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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Katherine A. Loveland, Treasurer
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Anthony Bailey, Journal Editor Autism Research
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Program

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.

Directions and Transportation

Directions to the Chicago Hilton using Public transportation

From O Hare Airport

When taking public transportation to the Hilton Chicago from O'Hare International Airport: Take CTA BLUE LINE TRAIN to JACKSON/DEARBORN. Walk 0.6 miles Southeast to 720 S MICHIGAN AVE.

From Midway Airport

When taking public transportation from Midway Airport to the Hilton Chicago Take CTA ORANGE LINE TRAIN (ORANGE LINE) to ROOSEVELT Walk 1 block east to Michigan Ave. and then walk 0.5 mile north to 720 S MICHIGAN AVE.

Driving Directions to the Chicago Hilton from Chicago-O'Hare International Airport

- Distance from hotel: 18 mi.
- Drive time: 45 min.

Directions: FOLLOW SIGNS FOR I-190 EAST. TAKE I-190 TO I-90 EAST. I-90 WILL MERGE WITH I-94. TAKE 1-90/94 APPX. 18 MILES TO CONGRESS PARKWAY. EXIT CONGRESS PARKWAY EAST. DRIVE 1/4 MILE ON CONGRESS, TURN RIGHT ON MICHIGAN AVE. HOTEL IS 3 BLKS DOWN

Transportation Costs to and from O'Hare Airport

Type	Typical Minimum Charge
Bus Service	25.00 USD
Limousine	70.00 USD
Subway/Rail	2.25 USD
Taxi	30.00 USD

Driving Directions to the Chicago Hilton from Chicago Midway Airport

- Distance from hotel: 12 mi.
- Drive time: 25 min.

Directions: I-55 NORTH TO CHICAGO NORTH ON LAKESHORE DRIVE LEFT ON BALBO TWO BLOCKS TO HOTEL ON LEFT.

Transportation to and from Midway Airport

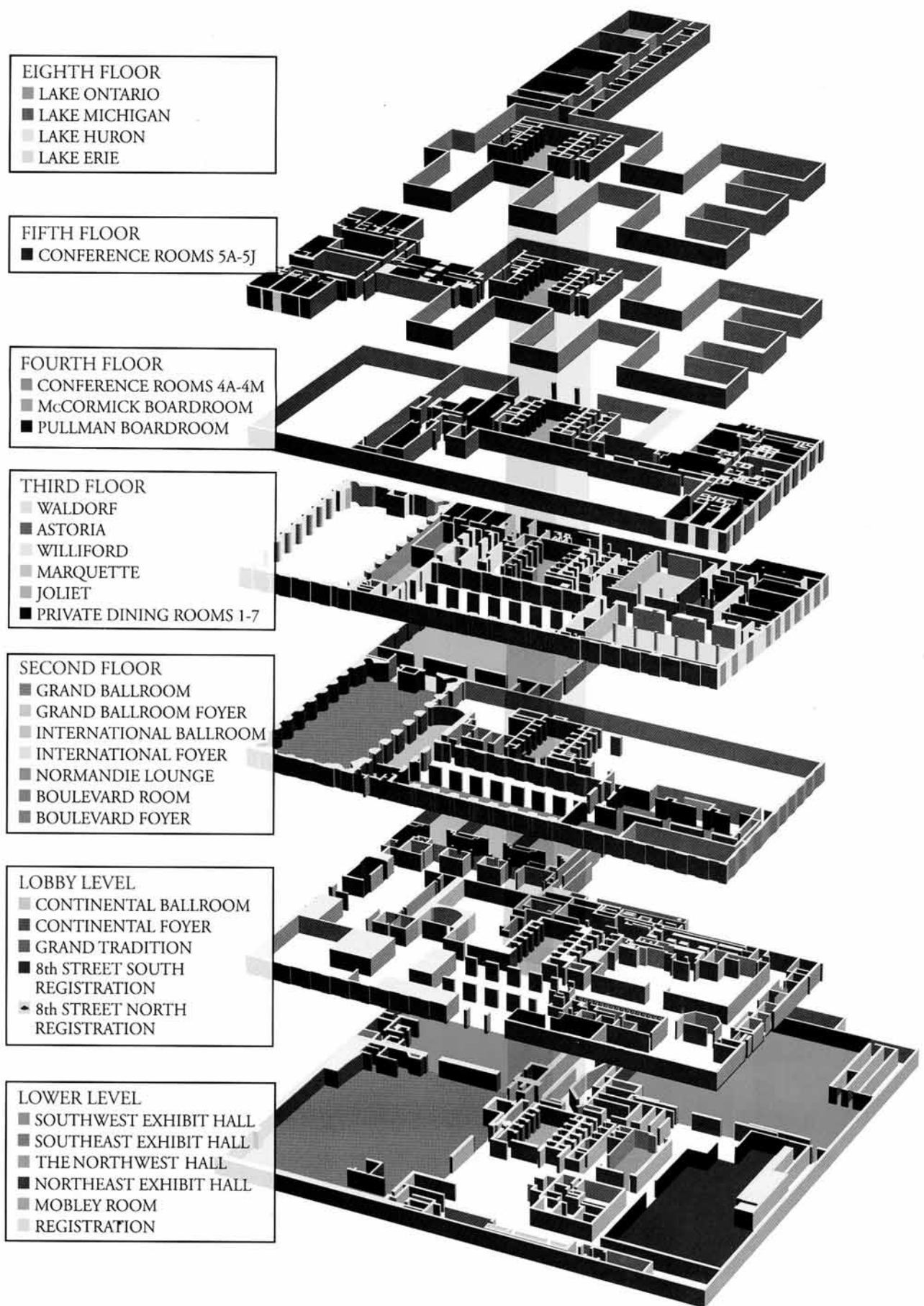
Type	Typical Minimum Charge
Bus Service	20.00 USD
Limousine	70.00 USD
Subway/Rail	2.25 USD
Taxi	25.00 USD

Hotel Parking

Self Parking:	43.00 USD
\$43 12-24 Hours	
Valet Parking:	50.00 USD
	Valet 0-6 hr \$32.00
In/Out Privileges:	Available
Secured:	Available
Covered:	Available
Parking Information:	Pay on foot stations available for self-parking

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Program

Thursday May 7 – AM

7:00A- 5:00p	Registration (Normandie Lounge)			
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Keynote Address

100 Fulfilling the Promise of Molecular Medicine In Autism

8:40 AM - 10:00 AM - Grand Ballroom

Speaker: M. Bear; MIT

8:40 **100.00**

Introduction/Autism Speaks Strategic Plan - Geraldine Dawson.

9:00 **100.01**

Fulfilling the Promise of Molecular Medicine In Autism. M. Bear*, MIT

Invited Educational Symposium

101 Before, During and After Diagnosis and Phenotyping

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

Moderator: G. Dawson; *Autism Speaks, UNC Chapel Hill*

Organizer: C. Lord; *University of Michigan*

Speakers: T. Charman¹, S. L. Bishop², A. S. Carter³, D. Fein⁴; (1)*Institute of Education, University of London*, (2)*Waisman Center, University of Wisconsin-Madison*, (3)*University of Massachusetts Boston*, (4)*University of Connecticut*

10:30 **101.00**

Social Emotional and Problem Behaviors in Children with Autism Spectrum Disorders: Associations with Child and Family Impairment. A. S. Carter*, C. K. Kraper, S. D. Rosenblum and F. Martinez-Pedraza, *University of Massachusetts Boston*

10:55 **101.01**

Comorbid Behavioural Psychopathology and Autism Severity: Same or Different?. T. Charman¹, E. Simonoff², A. Pickles³, C. R. G. Jones¹ and G. Baird⁴, (1)*Institute of Education, University of London*, (2)*Institute of Psychiatry*, (3)*University of Manchester*, (4)*Guy's Hospital*

11:20 **101.02**

Self-Report in Adolescents and Adults with ASD: Implications for Diagnostic Assessment and for Evaluation of the Broader Autism Phenotype. S. L. Bishop¹, K. Gotham², M. M. Seltzer¹ and C. Lord², (1)*Waisman Center, University of Wisconsin-Madison*, (2)*University of Michigan*

11:45 **101.03**

Cognitive and Behavioral Profiles of Children Who Recover From Autism. D. Fein*, M. Barton, I. M. Eigsti, L. Naigles, M. Rosenthal, K. Tyson, E. Troyb and M. Helt, *University of Connecticut*

12:10 **101.04**

Discussion.

Oral Presentations

102 Medical

10:30 AM - 12:30 PM - Northwest Hall Room 1

10:30 **102.00**

Immunization Uptake in Siblings of Children with Autism. W. Roberts¹, G. Abu Kuwaik², J. Brian², S. E. Bryson³, B. MacKinnon Modi², I. M. Smith³, P. Szatmari⁴, N. Tanel⁵ and L. Zwaigenbaum⁶, (1)*University of Toronto*, (2)*Hospital for Sick Children & Bloorview Kids Rehab*, (3)*Dalhousie University/IWK Health Centre*, (4)*Offord Centre for Child Studies, McMaster University*, (5)*Hospital for Sick Children*, (6)*University of Alberta*

10:50 **102.01**

Examination of Mitochondrial Variation in Autism. J. L. McCauley¹, M. Schmidt¹, S. H. Slifer¹, I. Konidari¹, P. L. Whitehead¹, W. Hulme¹, H. H. Wright², R. K. Abramson², D. J. Hedges¹, M. L. Cuccaro¹, J. R. Gilbert¹, J. P. Hussman³, E. R. Martin¹, J. Haines⁴ and M. A. Pericak-Vance¹, (1)*University of Miami Miller School of Medicine*, (2)*University of South Carolina School of Medicine*, (3)*Hussman Foundation*, (4)*Vanderbilt University*

11:10 **102.02**

What Is a Meaningful Result? Communicating the Results of Genetic Research in Autism. F. A. Miller*, R. Z. Hayeems and J. P. Bytautas, *University of Toronto*

11:30 **102.03**

Efficacy and Safety of Aripiprazole for the Treatment of Irritability Associated with Autistic Disorder in Children and Adolescents (6–17 Years): Results from Two 8-Week, Randomized, Double-Blind, Placebo-Controlled Trials. R. Owen¹, R. Melmed², L. Laird¹, G. Manos¹, W. H. Carson² and R. D. McQuade³, (1)*Bristol-Myers Squibb*, (2)*Director, Melmed Center*, (3)*Otsuka Pharmaceutical Development and Commercialization Inc.*

11:50 **102.04**

Moderators and Mediators of Risperidone Response in Autistic Disorder with Irritability. C. A. Farmer¹, L. E. Arnold¹, A. N. Witwer¹, R. Disilvestro¹, M. G. Aman¹, J. McCracken², C. McDougle³, L. Scahill⁴, E. Tierney⁵, B. Vitiello⁶ and R. U. P. P. Autism Network⁷, (1)*Ohio State University*, (2)*University of California, Los Angeles*, (3)*Indiana University School of Medicine*, (4)*Yale University School of Medicine*, (5)*Kennedy Krieger Institute*, (6)*National Institute of Mental Health, National Institutes of Health*, (7)*Research Units on Pediatric Psychopharmacology Autism Network*

12:10 **102.05**

Poor Verbal and Non-Verbal Skills in Children with Abnormal Craniofacial Variability Indices (CVI) and ASD. K. Angkustsiri¹, K. Camilleri², L. Cochran², C. W. Nordahl², L. A. Barnett², R. L. Hansen², A. M. Mastergeorge², S. J. Rogers² and S. Boyadjev Boyd¹, (1)*University of California at Davis*, (2)*M.I.N.D. Institute, University of California at Davis*

Oral Presentations**103 Cognition**

10:30 AM - 12:30 PM - Northwest Hall Room 2

- 10:30 **103.00**
Lateral Masking Paradigms Reveal Atypical Interactions in Autism. L. Kéita*, V. Fay, L. Mottron and A. Bertone, *Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*
- 10:50 **103.01**
Enhanced Mental Rotation Abilities in Autistic Individuals. I. Soulieres*¹, T. A. Zeffiro², J. Lepage-Hamel¹, M. L. Girard¹ and L. Mottron¹, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Neural Systems Group, Massachusetts General Hospital*
- 11:10 **103.02**
Assessing Lateral Connectivity in Autism Using a Crowding Paradigm. A. Bertone*¹, V. Fay¹, J. Faubert², L. Kéita¹ and L. Mottron¹, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Université de Montréal*
- 11:30 **103.03**
Attention Regulation and Social Behavior among Higher Functioning Children with Autism. L. Mohapatra¹, H. A. Henderson*¹, C. Schwartz², N. Kojkowski¹, C. Hileman¹, K. E. Ono¹ and P. C. Mundy³, (1)*University of Miami*, (2)*Yale University*, (3)*UC Davis*
- 11:50 **103.04**
The Development of Cognitive Control in Children with Autism Spectrum Disorders. S. Ly, M. Solomon**¹, J. H. Yoon and C. S. Carter, *MIND Institute, Imaging Research Center*
- 12:10 **103.05**
Neuropsychological Functioning in First-Degree Relatives of Individuals with Autism. L. D. Stanford*¹, M. W. Mosconi, A. M. D'Cruz, L. Ankeny, M. Kay and J. A. Sweeney, *University of Illinois at Chicago*

Oral Presentations**104 Molecular Genetics I**

10:30 AM - 12:30 PM - Northwest Hall Room 5

- 10:30 **104.00**
A Genome-Wide Association Study of Autism Reveals a Common Novel Risk Locus at 5p14.1. D. O. Ma*¹, D. Salyakina¹, J. M. Jaworski¹, I. Konidari¹, P. L. Whitehead¹, S. H. Slifer¹, D. J. Hedges¹, H. N. Cukier¹, J. L. McCauley¹, G. W. Beecham¹, H. H. Wright², R. K. Abramson², E. R. Martin¹, J. P. Hussman³, J. R. Gilbert¹, M. L. Cuccaro¹, J. Haines⁴ and M. A. Pericak-Vance¹, (1)*University of Miami Miller School of Medicine*, (2)*University of South Carolina School of Medicine*, (3)*Hussman Foundation*, (4)*Vanderbilt University*
- 10:50 **104.01**
Autism Genome Project. J. Sutcliffe for the Autism Genome Project*, *Vanderbilt University*
- 11:10 **104.02**
Novel Copy Number Variants in Children with Autism and Additional Developmental Anomalies. L. Davis*¹, K. Meyer, D. Rudd, A. Librant, E. Epping, V. Sheffield and T. Wassink, *University of Iowa*

- 11:30 **104.03**
Exon-Focused Microarray Analysis of Candidate Genes in Autism. M. Shinawi*¹, T. Sahoo¹, P. B. Santos-Celestino¹, R. Zascavage¹, J. R. German¹, A. Porter¹, P. Fang¹, D. E. Treadwell-Deering², C. Skinner³, S. A. Skinner³, R. E. Stevenson³, R. P. Goin-Kochel¹ and A. Beaudet¹, (1)*Baylor College of Medicine*, (2)*Texas Children's Hospital, Baylor College of Medicine*, (3)*Greenwood Genetic Center*
- 11:50 **104.04**
The Phenotype of 16p11.2 Microdeletion and Microduplication. E. Hanson¹, R. Hundley*¹, A. Fong², M. Shahab², J. Doerr², A. Lian², K. Greenberg², C. Davit¹, A. Johnston², C. Tam², H. Peters², K. Lowe², S. J. Brewster², M. M. Sobehi², R. Nasir², M. Gregas² and D. Miller², (1)*Children's Hospital*, (2)*Children's Hospital Boston*
- 12:10 **104.05**
Amyloid Precursor Protein-Binding Protein (APBA2) Is An Autism Candidate Gene. T. D. Babatz*¹, R. A. Kumar, J. Sudi, W. B. Dobyns and S. L. Christian, *University of Chicago*

105 Poster I

9:00 AM - 1:00 PM - Northwest Hall

The majority of Poster abstracts are grouped according to Section Themes. However, the most complete listing will be found by performing a search for keywords on the online version or pdf version of the program

Genetics

- 11:00 **1** **105.01**
An Integrative Molecular Concept Modeling of GxE Interactions in Autism. C. Hicks*¹, G. Steinhardt, J. Del Greco and A. Tchourbanov, *Loyola University Medical Center*
- 12:00 **2** **105.02**
Anatomical Phenotyping in a Mouse Model of Fragile X Syndrome Using Magnetic Resonance Imaging and Computed Tomography. J. Ellegood*¹, L. K. Pacey², D. R. Hampson², J. P. Lerch¹ and R. M. Henkelman¹, (1)*The Hospital for Sick Children*, (2)*University of Toronto*

Neuropathology

- 10:00 **3** **105.03**
5HT_{1A} Benzodiazepine and NMDA Receptor Binding in Broca's Area in Autism. M. Simms*¹, A. Oblak, T. Gibbs and G. Blatt, *Boston University School of Medicine*
- 11:00 **4** **105.04**
Early Increase in Serotonin Axons in Autism Brain Results in Dystrophic Fibers and Glial Reactivity. E. C. Azmitia*¹, P. Whitaker-Azmitia², Z. P. Hou¹ and J. Wegiel³, (1)*New York University*, (2)*State University of New York*, (3)*New York State Institute for Basic Research in Developmental Disabilities*
- 12:00 **5** **105.05**
Clathrin Is Altered in the Brain of Autistic Children. A. Sheikh*¹, X. Li¹, G. Y. Wen², W. T. Brown² and M. Malik¹, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*New York State Institute for Basic Research in Developmental Disabilities*
- 10:00 **6** **105.06**
Increased Activities of Brain Na⁺-K⁺-ATPase and Ca²⁺-Mg²⁺-ATPase in Frontal Cortex and Cerebellum from Autism. V. Chauhan*¹, L. Ji¹, B. Muthiyah¹, W. T. Brown² and A. Chauhan¹, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*New York State Institute for Basic Research in Developmental Disabilities*

Program

- 11:00 **7 105.07**
Elevated Cytokines in the Brain of Autistic Individuals. X. Li^{*1}, A. Chauhan¹, A. Sheikh¹, S. Patil², V. Chauhan¹, X. M. Li², L. Ji³, W. T. Brown³ and M. Malik¹, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*Mount Sinai School of Medicine*, (3)*New York State Institute for Basic Research in Developmental Disabilities*
- 12:00 **8 105.08**
Delayed Development of Neurons in Networks Involved with Stereotypic Behaviors and Reward in Autism. K. Nowicki^{*1}, I. Kuchna¹, S. Y. Ma¹, J. Wegiel¹, T. Wisniewski¹, I. L. Cohen², E. London¹, M. J. Flory¹, W. T. Brown¹ and J. Wegiel¹, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*
- 12:00 **9 105.09**
Contribution of Thalamic Developmental Changes to the Autistic Phenotype. S. Y. Ma^{*1}, I. Kuchna¹, K. Nowicki¹, J. Wegiel¹, T. Wisniewski¹, I. L. Cohen², E. London¹, M. J. Flory¹, W. T. Brown¹ and J. Wegiel¹, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*
- 10:00 **10 105.10**
Developmental Heterochronicity of Neuron Growth in the Memory System of Autistic Subjects. I. Kuchna^{*1}, K. Nowicki¹, J. Wegiel¹, S. Y. Ma¹, T. Wisniewski¹, I. L. Cohen², E. London¹, M. J. Flory¹, W. T. Brown¹ and J. Wegiel¹, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*
- 11:00 **11 105.11**
Mapping of Oxidative Stress Damage in Autistic Brain. E. M. Sajdel-Sulkowska^{*1}, M. Xu², W. McGinnis³ and N. Koibuchi², (1)*Harvard Medical School/BWH*, (2)*Gunma University Graduate School of Medicine*, (3)*Autism House, Autism New Zealand*
- 12:00 **12 105.12**
Minicolumnar Core Width by Lamina in Brains of Patients with Autism. M. F. Casanova, P. Narahari^{*}, A. S. El-Baz, E. A. Vanbogaert and A. E. Switala, *University of Louisville*
- Neuroimaging/Neurophysiology*
- 10:00 **13 105.13**
Reduced Gyral Window and Corpus Callosum Size in Autism: Possible Macroscopic Correlates of a Minicolumnopathy. M. F. Casanova^{*1}, A. S. El-Baz¹, M. C. Mott¹, G. B. Mannheim², H. Hassan¹, R. Fahmi¹, J. N. Giedd³, J. M. Rumsey³, A. E. Switala¹ and A. A. Farag¹, (1)*University of Louisville*, (2)*Food and Drug Administration*, (3)*National Institute of Mental Health, National Institutes of Health*
- 11:00 **14 105.14**
Exploring the Association Between Amygdala Volume and Cortisol Responsivity in Children with Autism. B. Corbett^{*1}, C. Schupp¹, N. Ryan¹ and V. Carmean², (1)*M.I.N.D. Institute, University of California at Davis*, (2)*University of Colorado, Denver*
- 12:00 **15 105.15**
A Proton MRS Study of the Basal Ganglia and Dorsolateral Prefrontal Cortex in Adults with Autistic Spectrum Disorders. T. J. Lavender^{*1}, S. Maltezos², P. Johnston³, F. Macdiarmid¹, R. O'Gorman¹, C. Murphy³, C. Ecker³, S. Reed⁴, D. Spain³, E. Daly⁵, D. Murphy³ and MRC UK AIMS Network³, (1)*Institute of Psychiatry*, (2)*Adult ADHD Service, The Maudsley Hospital*, (3)*King's College London, Institute of Psychiatry*, (4)*South London & Maudsley NHS Trust*, (5)*Institute of Psychiatry, King's College London*
- 10:00 **16 105.16**
Exploring the Association Between Total Cerebral Volume and Cortisol Responsivity in Children with Autism. N. Ryan^{*1}, C. Schupp¹, V. Carmean² and B. Corbett¹, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*University of Colorado, Denver*
- 11:00 **17 105.17**
Microstructural Connectivity of the Arcuate Fasciculus in Autism. P. T. Fletcher^{*1}, R. Whitaker¹, R. Tao¹, M. DuBray¹, A. L. Alexander², E. Bigler³, N. Lange⁴ and J. E. Lainhart¹, (1)*University of Utah*, (2)*University of Wisconsin*, (3)*Brigham Young University*, (4)*Harvard University*
- 12:00 **18 105.18**
Relationship Between Corpus Callosum Structure and Intelligence in Autism and Typical Development. M. DuBray^{*1}, T. L. Merkley², E. Bigler², A. L. Alexander³, A. Froehlich¹, J. E. Lee³, J. E. Lainhart¹ and N. Lange⁴, (1)*University of Utah*, (2)*Brigham Young University*, (3)*University of Wisconsin*, (4)*Harvard University*
- 12:00 **19 105.19**
Neuroanatomic Correlates of Dyspraxia in Children with Autism Spectrum Disorders. E. L. Wodka^{*1}, M. E. Richardson¹ and S. H. Mostofsky², (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 10:00 **20 105.20**
A Meta-Analysis of the Corpus Callosum in Autism. T. W. Frazier^{*1} and A. Y. Hardan², (1)*Cleveland Clinic*, (2)*Stanford University School of Medicine/Lucile Packard Children's Hospital*
- 10:00 **21 105.21**
MRI Morphometry of Basal Ganglia in Children with Pervasive Developmental Disorders. L. D'Errico¹, G. S. Colafati², F. Vatta³, S. Calderoni⁴, F. Meneghini³, M. Marletta¹, S. Mininel³, D. Caramella¹, C. Bartolozzi¹, S. Malena⁵, A. Aragi⁶, R. Tancredi⁴, F. Muratori⁴ and F. Di Salle⁷, (1)*Radiology, University of Pisa*, (2)*Department of Imaging - Bambino Gesù Children's Hospital - Rome; Psychology and Neuroscience Department - Maastricht*, (3)*Bioengineering, University of Trieste*, (4)*University of Pisa - Stella Maris Scientific Institute*, (5)*Department of Imaging - Bambino Gesù Children's Hospital - Rome*, (6)*Department of Neurological Sciences, SUN University-Naples*, (7)*Neuroradiology, University of Pisa; Psychology and Neuroscience Department - Maastricht*
- 12:00 **22 105.22**
Total Brain Volume and Corpus Callosum Size in Medication Naive Adolescents and Young Adults with Autism Spectrum Disorder. C. M. Freitag^{*1}, E. Luders², H. Hulst³, K. L. Narr², P. M. Thompson², A. W. Toga², C. Krick⁴ and C. Konrad³, (1)*Johann Wolfgang Goethe-University*, (2)*UCLA School of Medicine*, (3)*University of Münster*, (4)*Saarland University Hospital*
- 10:00 **23 105.23**
Differences in Cortical Thickness in Autism Spectrum Disorders and Relation to Everyday Executive Function. K. M. Mak-Fan^{*1}, M. J. Taylor², M. K. Malone², W. Roberts¹ and J. P. Lerch³, (1)*University of Toronto*, (2)*Hospital for Sick Children*, (3)*The Hospital for Sick Children*
- 11:00 **24 105.24**
Automatic Classification of Structural MR Scans Using Support Vector Machine: a Diagnostic Tool for Adult Autism?. C. Ecker^{*1}, V. Rocha-Rego², P. Johnston¹, J. Mourao-Miranda³, A. Marquand³, E. Daly⁴, C. Murphy¹, D. Murphy¹ and M. R. C. AIMS Consortium⁵, (1)*King's College London, Institute of Psychiatry*, (2)*University of Rio de Janeiro*, (3)*Centre for Neuroimaging Sciences*, (4)*Institute of Psychiatry, King's College London*, (5)*Institute of Psychiatry*

- 12:00 **25 105.25**
A Preliminary Structural Magnetic Resonance Imaging Study of Individuals with Schizotypal and Autistic Traits. A. C. Stanfield*¹, T. W. J. Moorhead¹, M. D. Spencer², D. G. C. Owens¹, S. M. Lawrie¹ and E. C. Johnstone¹, (1)University of Edinburgh, (2)University of Cambridge
- 10:00 **26 105.26**
An Anatomical MRI Investigation of Asymmetries in Frontal and Temporal Language Association Cortex in Children with Autism Disorder. A. L. Isenberg*¹, J. Juraneck², P. Filipek¹, K. Osann¹, M. A. Spence¹ and N. M. Gage¹, (1)University of California, Irvine, (2)The University of Texas, Health Science Center at Houston
- 11:00 **27 105.27**
Anatomical Landmarks Based Analysis of the Corpus Callosum Abnormalities in Essential Autism. Y. Duan*, Q. He, K. Karsch and J. H. Miles, University of Missouri
- 12:00 **28 105.28**
Age-Related Differences in White Matter in Children and Adolescents with Autism. G. M. McAlonan*, V. Cheung, C. Cheung, N. Wong and S. Chua, University of Hong Kong
- 12:00 **29 105.29**
Myelin Imaging in Autism - Preliminary Reports. J. Zinkstok*¹, E. Daly², C. Ecker³, P. Johnston³, D. Murphy³ and S. Deoni², (1)Institute of Psychiatry, King's College London, (2)Institute of Psychiatry, King's College London, (3)King's College London, Institute of Psychiatry
- 10:00 **30 105.30**
White Matter Integrity and Volumetrics in the Investigation of Structural Connectivity in School-Aged High Functioning Boys with ASD. N. Shetty* and M. Herbert, Massachusetts General Hospital
- 12:00 **31 105.32**
A Diffusion Tensor Imaging Study of the Social Brain in Autism. L. Poustka*¹ and B. Stieltjes², (1)Central Institute of Mental Health, (2)German Cancer Research Center, Germany
- 10:00 **33 105.33**
Diffusion Tractography of Frontal and Temporal Lobe Pathways to the Amygdala in Adolescents with Autism Spectrum Disorders. M. Carrasco*, J. L. Wiggins, S. J. Weng, S. Peltier, S. Perkins, K. Fitzgerald, C. Lord and C. S. Monk, University of Michigan
- 11:00 **34 105.34**
Amygdala Activation in Response to Configural and Featural Facial Changes in ASD. J. D. Clark*, C. R. Corbly, M. Huffman, M. Wheatley, L. A. Ruble, R. S. Bhatt, P. Glaser and J. E. Joseph, University of Kentucky
- 12:00 **35 105.35**
Multisensory Integration of Visual and Vocal Emotional Cues in Autism. K. M. Dalton* and R. J. Davidson, University of Wisconsin
- 10:00 **36 105.36**
Visuomotor Interhemispheric Information Transfer in Autism. E. B. Barbeau*¹, L. Mottron¹, A. Mendrek² and T. A. Zeffiro³, (1)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), (2)Centre de Recherche Fernand-Seguin, Université de Montréal, (3)Neural Systems Group, Massachusetts General Hospital
- 11:00 **37 105.37**
High- Vs. Low-Level Perceptual Processing in Autism: An fMRI Study. Y. Liu*, V. Cherkassky and M. A. Just, Carnegie Mellon University
- 12:00 **38 105.38**
Trustworthiness Judgments in Autism: An fMRI Study. S. E. Schipul*¹, D. L. Williams², T. A. Keller³, N. J. Minshew⁴ and M. A. Just³, (1)Center for Cognitive Brain Imaging, Carnegie Mellon University, (2)Duquesne University, (3)Carnegie Mellon University, (4)University of Pittsburgh School of Medicine
- 12:00 **39 105.39**
Lack of Emotion Modulation of Brain Activation during Face Processing in ASD. R. C. M. Philip*, A. C. Stanfield, J. Hall, H. C. Whalley and S. M. Lawrie, University of Edinburgh
- 10:00 **40 105.40**
Functional Connectivity of the Somatosensory Cortex during Face Perception in Autism. N. R. Zürcher*¹, B. L. Russo¹ and N. Hadjikhani², (1)Swiss Federal Institute of Technology (EPFL), (2)Swiss Federal Institute of Technology (EPFL) and Harvard Medical School
- 11:00 **41 105.41**
Neural Underpinnings of Prosody Processing in Autism. I. M. Eigsti*¹, J. Schuh¹, E. Mencl², R. T. Schultz³ and R. Paul⁴, (1)University of Connecticut, (2)Haskins Laboratories, (3)Children's Hospital of Philadelphia and the University of Pennsylvania, (4)Yale University School of Medicine
- 12:00 **42 105.42**
The Role of Temporoparietal Junction in Intentional Causal Attribution in Autism. R. K. Kana*¹, E. R. Blum¹, C. L. Klein², L. G. Klinger² and M. R. Klinger², (1)University of Alabama at Birmingham, (2)University of Alabama
- 10:00 **43 105.43**
Activation/Inhibition and Autism Versus Asperger Disorder. A. P. Inge*¹, C. Schwartz², N. Zahka³, N. Kojkowski³, D. Coman³, L. Mohapatra³, C. Hileman³, H. A. Henderson³ and P. C. Mundy⁴, (1)University of North Carolina School of Medicine, (2)Yale University, (3)University of Miami, (4)UC Davis
- 11:00 **44 105.44**
Spontaneous BOLD Signal Fluctuation in Resting State Functional MRI Demonstrates Difference in Hurst Exponent Distribution in Adults with and without Autism Spectrum Conditions. M. C. Lai*¹, J. Suckling², B. Chakrabarti³, M. V. Lombardo³, E. Bullmore², S. A. Sadek¹, G. Pasco¹, S. J. Wheelwright⁴, S. Baron-Cohen⁴ and M. R. C. AIMS Consortium⁵, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, (2)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, (3)University of Cambridge, Autism Research Centre, (4)University of Cambridge, (5)University of Cambridge; Institute of Psychiatry, King's College London; University of Oxford
- 12:00 **45 105.45**
Diminished Selectivity of the Social Brain in Individuals with Autism. N. B. Pitskel*¹, C. M. Hudac², S. D. Lantz¹, N. J. Minshew¹ and K. A. Pelphrey², (1)University of Pittsburgh School of Medicine, (2)Yale University
- 10:00 **46 105.46**
Neural Bases of Self Representation in High-Functioning Autism. C. L. Klein*¹, B. G. Travers¹, L. G. Klinger¹, M. R. Klinger¹ and R. K. Kana², (1)University of Alabama, (2)University of Alabama at Birmingham
- 11:00 **47 105.47**
Neural Activity in Mirror Neuron and Reward Circuitry While Viewing Emotional Expressions Relates to Core Deficits in Autism. J. D. Rudie*, A. Martin, L. A. Borofsky, A. A. Scott, S. Bookheimer, M. Iacoboni and M. Dapretto, University of California, Los Angeles

Program

- 12:00 **48 105.48**
Magnetic Resonance Spectroscopy in ASD: Review of Regions Investigated, Findings, Potential Influence of Methodology, and Directions for Future Research. N. Shetty¹, E. Ratai¹, A. P. Ringer² and M. Herbert^{*1}, (1)Massachusetts General Hospital, (2)University of California, Berkeley
- 12:00 **49 105.49**
Failure of Right Hemispheric Suppression Underlies Bilaterality. T. J. Druzgal^{*1}, J. S. Anderson¹, A. Froehlich¹, N. Lange², M. DuBray¹, E. Bigler³, M. P. Froimowitz² and J. E. Lainhart¹, (1)University of Utah, (2)Harvard University, (3)Brigham Young University
- 10:00 **50 105.50**
Anterior Cingulate Connectivity in Children with Autism Spectrum Disorders. A. Di Martino^{*1}, A. M. C. Kelly¹, D. G. Gee¹, Z. Shehzad¹, M. Mairena¹, R. Grzadzinski¹, L. Q. Uddin², P. T. Reiss³, E. Petkova³, C. Lord⁴, F. X. Castellanos¹ and M. P. Milham¹, (1)Institute for Pediatric Neuroscience, (2)Stanford University, (3)NYU Child Study Center, (4)University of Michigan
- 11:00 **51 105.51**
Impaired Prefrontal Cortical Response by Switching Stimuli in Autism Spectrum Disorders Assessed by near-Infrared Spectroscopy. A. Saotome^{*1}, M. Tazoe², M. Narita³, K. Sakatani⁴ and N. Narita¹, (1)Bunkyo University, (2)Japan Lutheran College, (3)Mie University, (4)Nihon University School of Medicine
- 12:00 **52 105.52**
Resting State EEG Connectivity in Children with HFA. J. R. Wiersma^{*}, R. Raymaekers and H. Roeyers, Ghent University
- 10:00 **53 105.53**
The Mirror Neuron System as Evidenced by Attenuation of EEG Mu Rhythm and Social Aptitude in Autism Spectrum Disorders. B. Aaronson^{*} and R. Bernier, University of Washington
- 11:00 **54 105.54**
Functioning of the Mirror Neuron System in Children with HFA during Observation and Imitation of a Precision Grip: An EEG Study. R. Raymaekers^{*}, J. R. Wiersma and H. Roeyers, Ghent University
- 12:00 **55 105.55**
ERP Responses to Faces Are Correlated with Verbal Skills in Toddlers with ASD. E. J. H. Jones^{*1}, S. J. Webb¹, K. Merkle¹, N. Freed¹, J. Greenson¹, M. Murias¹ and G. Dawson², (1)University of Washington, (2)Autism Speaks, UNC Chapel Hill
- 10:00 **56 105.56**
Multisensory Interactions Between Somatosensory Stimulation and Vision in Autism Spectrum Disorders: An Electrophysiological Study. N. Russo^{*1}, J. J. Foxe², M. Tommerdahl³ and S. Molholm¹, (1)The Children's Research Unit (CRU), Program in Cognitive Neuroscience, City College of New York, (2)City College of New York, (3)University of North Carolina
- 11:00 **57 105.57**
Crowding Effect in Autism Spectrum Disorders. P. A. Constable^{*1}, J. A. Solomon¹ and D. M. Bowler², (1)City University, (2)City University, London
- 12:00 **58 105.58**
Electrophysiological Correlates of Audio-Visual Integration of Spoken Words in Typical Development and Autism Spectrum Disorder. O. Megnin^{*1}, A. Flitton¹, M. De Haan¹, C. R. G. Jones², T. Baldeweg¹ and T. Charman², (1)UCL Institute of Child Health, (2)Institute of Education, University of London
- 12:00 **59 105.59**
ERP Responses to Probe Words Following a Sentence Context during Reading in Individuals with Autism Spectrum Disorders: An MEG Study. B. Ahtam^{*}, S. Braeutigam and A. Bailey, University of Oxford
- 10:00 **60 105.60**
Filling-in in Autism: a High-Density Electrical Mapping Study of Visual Object Binding Mechanisms. T. S. Altschuler^{*1}, S. Molholm¹, D. Blanco², A. C. Snyder¹, A. B. Brandwein¹, N. Russo¹ and J. J. Foxe², (1)The Children's Research Unit (CRU), Program in Cognitive Neuroscience, City College of New York, (2)City College of New York
- 11:00 **61 105.61**
The ERP Old-New Word Repetition Effect in Autism Spectrum Disorder: Abnormal Neural Functioning Underlying Typical Recognition Memory Performance. E. Massand^{*1}, D. M. Bowler¹, L. Mottron², A. Hosen³ and B. Jemel⁴, (1)City University, London, (2)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), (3)Hopital Rivière des Prairies, (4)Research, Lab, Neurosciences, and, Cognitive, Electrophysiology
- 12:00 **62 105.62**
Increased Eye-Blink Rate in Autism Spectrum Disorder May Reflect Dopaminergic Abnormalities. B. Jensen¹, B. Keehn², L. Brenner³, S. P. Marshall¹, A. J. Lincoln⁴ and R. A. Müller^{*1}, (1)San Diego State University, (2)San Diego State University / University of California, San Diego, (3)University of California, Los Angeles, (4>Alliant International University
- 10:00 **63 105.63**
Diminished Variability of Neural Circuits in Autism: MEG Studies of Tactile Evoked Response. M. A. Coskun¹, S. L. Reddoch², D. A. Pearson³, K. A. Loveland^{*3}, E. M. Castillo², A. C. Papanicolaou² and B. R. Sheth¹, (1)University of Houston, (2)Univ. of Texas Med. Sch. at Houston, (3)University of Texas Medical School at Houston
- 11:00 **64 105.64**
Subliminal Perception of Emotional Faces in Autism. C. M. Hudac^{*1}, J. M. Arizpe², S. M. Lee¹, B. C. Vander Wyk¹ and K. A. Pelphrey¹, (1)Yale University, (2)National Institute of Mental Health, National Institutes of Health
- 12:00 **65 105.65**
Integration of Autonomic Cues during Decision Making: Electrodermal Response by Young High Functioning Children with ASD While Gambling. S. Faja^{*1}, M. Murias¹ and G. Dawson², (1)University of Washington, (2)Autism Speaks, UNC Chapel Hill
- 10:00 **66 105.66**
Neural Effects Following Affect Recognition Training in Autism Spectrum Disorders. S. Bölte^{*1}, S. Schlitt², A. Ciaramidaro³, A. Beyer², D. Hainz², B. Weber², V. Gapp², F. Poustka⁴ and H. Walter⁵, (1)Central Institute of Mental Health, (2)Goethe-University, (3)University of Turin, (4)Department of Child and Adolescent Psychiatry, J.W. Goethe University, (5)University of Bonn
- 11:00 **67 105.67**
No Difference in Spatial Contrast Sensitivity Function (sCSF) Between Adolescents with ASD and Typically-Developing (TD) Controls. E. Milne^{*1}, H. C. Koh¹ and K. Dobkins², (1)The University of Sheffield, (2)University of California, San Diego
- 12:00 **68 105.68**
Autistic Traits and Visual Sensitivity to Human, Animal, and Object Motion. Z. Fermano^{*}, M. D. Kaiser and M. Shiffrar, Rutgers University
- 12:00 **69 105.69**
M and P Pathway Sensitivities and Their Contribution to Motion Processing in Adolescents with ASD and Adolescents with Siblings with ASD. H. C. Koh^{*1}, E. Milne¹ and K. Dobkins², (1)The University of Sheffield, (2)University of California, San Diego

- 10:00 **70 105.70**
Power and Coherence Abnormalities in Autistic Children: Insights into Local Processing and Long Distance Functional Connectivity. J. R. Isler*¹, K. M. Martien², P. Grieve¹ and M. Herbert³, (1)*Columbia College of Physicians and Surgeons*, (2)*Massachusetts General Hospital-Harvard Medical School*, (3)*Massachusetts General Hospital*
- 11:00 **71 105.71**
Patterns of Epileptiform Activity and Clinical Response to Steroid Therapy in Autism. J. D. Lewine*¹ and M. Chez², (1)*Alexian Brothers Medical Center*, (2)*Sutter Neuroscience Institute, Sacramento; UC Davis Medical Center*
- 12:00 **72 105.72**
Head Circumference of Israeli Children with Autism Spectrum Disorder. M. Davidovitch*¹, D. Golan¹, O. Vardi¹, D. Lev² and T. Lerman-Sagie², (1)*Maccabi Healthcare Services*, (2)*Wolfson Medical Center*
- 10:00 **73 105.73**
Heart Rate Variability and Electrodermal Activity in Children with Atypical Sensory Processing: Exploratory Pattern Analysis. E. Hedman*¹, M. Eckhardt¹, M. Z. Poh¹, M. S. Goodwin², L. J. Miller³, B. Brett-Green³, S. A. Schoen³, D. M. Nielsen³ and R. W. Picard¹, (1)*Massachusetts Institute of Technology, The Media Laboratory*, (2)*Massachusetts Institute of Technology*, (3)*Sensory Processing Disorder Foundation*
- 11:00 **74 105.74**
Pupillary Response to Faces in Children with Autism. L. Sepeta*¹, N. Tsuchiya², M. S. Davies¹, M. Sigman¹ and S. Bookheimer¹, (1)*University of California, Los Angeles*, (2)*California Institute of Technology*
- 12:00 **75 105.75**
Pre-Pulse Inhibition: Its Expanded Use in Differentiation of Autism Caused by Fragile X Syndrome Versus Idiopathic Autism. J. Yuhas¹, L. Cordeiro², A. Schneider¹, E. Ballinger*², R. Hagerman³ and D. Hess², (1)*University of California, Davis*, (2)*M.I.N.D. Institute, University of California at Davis Medical Center*, (3)*UC Davis*
- 10:00 **76 105.76**
Executive Function Deficits and Emotion Recognition Problems In Boys with Klinefelter Syndrome, Related to Social Dysfunction and Autism. H. Swaab*¹, H. Bruining², S. Van Rijn³, M. Bierman¹, H. van Engeland² and L. de Sonneville¹, (1)*University of Leiden*, (2)*University Medical Centre, Rudolf Magnus Institute of Neuroscience*, (3)*Leiden University*
- 11:00 **77 105.77**
Lack of Emotion-Specific Facial Mimicry Responses among High-Functioning Individuals with An Autism Spectrum Disorder. A. Rozga*¹, M. Mumaw, T. King and D. L. Robins, *Georgia State University*
- 12:00 **79 105.79**
Electrophysiological and Behavioral Investigation of the Processing of Visual Stimuli in Infants at Risk for Autism Spectrum Disorders. V. Vogel-Farley*¹, T. Augenstein¹, J. Y. Yim², C. A. Nelson¹, H. Tager-Flusberg², L. M. Casner³ and L. M. Kasparian², (1)*Children's Hospital Boston*, (2)*Boston University School of Medicine*, (3)*Boston University*
- Toddlers/Preschool*
- 10:00 **80 105.80**
Social ABCs for Toddlers with Autism: Evaluation of a Parent-Mediated Intervention. J. Brian*¹, I. M. Smith², T. McCormick³, E. Dowds¹, C. Saue³, K. Smith³, D. Ostfield⁴, L. Zwaigenbaum⁵, W. Roberts⁶ and S. E. Bryson², (1)*Bloorview Kids Rehab and Hospital for Sick Children/ University of Toronto*, (2)*Dalhousie University/ IWK Health Centre*, (3)*IWK Health Centre*, (4)*McGill University*, (5)*University of Alberta*, (6)*University of Toronto*
- 11:00 **81 105.81**
Outcomes of Two-Year-Olds Enrolled in a Comprehensive Developmental Intervention. R. Landa*¹, *Kennedy Krieger Institute*
- 10:00 **83 105.83**
A Pilot Study on the Implementation of a Joint Attention, Parent Training Package, for Parents of Preschool Age Children with Autism. S. Ferguson*¹, *University of Canberra (ACT)*
- 11:00 **84 105.84**
Joint Attention Intervention in the Preschool – a Randomized Study. A. Kaale*¹, E. Sponheim¹ and L. Smith², (1)*Ullevaal University Hospital*, (2)*Centre for Child and Adolescent Mental Health*
- 12:00 **85 105.85**
Developmental Associations Between Attention, Language, and ASD Symptomatology in the Infant Siblings of Children with Autism Spectrum Disorders (ASDs). L. Ibanez*¹, C. Grantz, W. Gealy, M. Kimijima and D. S. Messinger, *University of Miami*
- 10:00 **86 105.86**
Atypical Face Scanning in Unaffected High-Risk Infant Siblings. K. Chawarska*¹, F. Shic, J. Bradshaw, S. Macari and A. Klin, *Yale University School of Medicine*
- 11:00 **87 105.87**
Characterization of the Broader Autism Phenotype in Later-Born Siblings. E. E. Malesa*¹ and W. Stone, *Vanderbilt University*
- 12:00 **88 105.88**
Impairment in Empathic Response Is Evident by 12 Months of Age in Children Subsequently Diagnosed with ASD. J. Barnwell*¹, T. Hutman², A. D. DeLaurentis², A. Rozga³, C. Sugar² and M. Sigman², (1)*University of North Carolina at Chapel Hill*, (2)*University of California, Los Angeles*, (3)*Georgia State University*
- 12:00 **89 105.89**
Diagnostic Stability of Autism Spectrum Disorder Diagnoses Made Before Age Two. C. Chlebowski*¹, M. Barton, S. Hodgson and D. Fein, *University of Connecticut*
- 10:00 **90 105.90**
Does 24-Month Empathic Responding Predict Autistic Symptomatology and Later ASD Diagnosis?. N. M. McDonald*¹, G. Robinson and D. S. Messinger, *University of Miami*
- 11:00 **91 105.91**
Defining Social Engagement Deficits in Young Children with ASD: Similarities Between Retrospective and Prospective Parental Reports. E. B. Lee*¹ and W. Stone, *Vanderbilt University*
- 12:00 **92 105.92**
Oculomotor Behavior in Toddlers with Autism during Naturalistic Viewing of Social Scenes. C. J. Zampella*¹, W. Jones and A. Klin, *Yale University School of Medicine*
- 10:00 **93 105.93**
Ecobehavioral Assessment of Social Behaviors of Young Children with Autism across Treatment Models. A. M. Sam*¹, B. P. Humphreys¹, S. McDonough² and K. Hume¹, (1)*Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill*, (2)*University of North Carolina*

Program

11:00 **94 105.94**

Impaired Face but Not Object Recognition in Young Children with Autism Spectrum Disorders. J. Bradshaw*, F. Shic and K. Chawarska, *Yale University School of Medicine*

12:00 **95 105.95**

Language and Cognitive Profiles in Young Children with Autism: Gender Differences. A. M. Mastergeorge¹, S. J. Rogers¹, S. Ozonoff², L. Cochran^{*1}, L. Deprey³ and P. Shoja¹, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*M.I.N.D. Institute, University of California at Davis Medical Center*, (3)*UC Davis Medical Center*

10:00 **96 105.96**

Bodily and Procedural Imitation in Preschoolers at Risk for Autism. M. Vanvuchelen^{*1}, H. Roeyers² and W. De Weerd³, (1)*Katholieke Universiteit Leuven - University College of the Province of Limburg, Belgium*, (2)*Ghent University*, (3)*Katholieke Universiteit Leuven*

11:00 **97 105.97**

Face/Object Perception in Infant Siblings of Children with Autism Spectrum Disorders (ASD). K. Dobkins*, L. Carver and V. Sampath, *University of California, San Diego*

12:00 **98 105.98**

Correlates of Elicited and Spontaneous Imitation in Young Children with Autism. K. Meyer* and B. Ingersoll, *Michigan State University*

12:00 **99 105.99**

The Development of Imitation Abilities in Children with Autism. G. Vivanti^{*1}, S. Hepburn², A. Philofsky³ and S. J. Rogers⁴, (1)*M.I.N.D. Institute, University of California at Davis Medical Center*, (2)*University of Colorado Denver School of Medicine*, (3)*University of Colorado at Denver*, (4)*M.I.N.D. Institute, University of California at Davis*

10:00 **100 105.100**

Spatial Incongruity Affects the Looking Behavior of Children with High Functioning Autism during Joint Attention Eliciting Videos: An Eye Tracking Study. M. Jaime^{*1}, B. Gamber¹, C. Hileman¹, L. C. Newell², H. A. Henderson¹ and P. C. Mundy³, (1)*University of Miami*, (2)*Indiana University of Pennsylvania*, (3)*UC Davis*

11:00 **101 105.101**

Visual Processing of Hierarchical Stimuli in Typically Developing Infants. J. Gibson¹, A. Needham¹, J. T. Elison^{*2} and J. S. Reznick², (1)*Duke University*, (2)*University of North Carolina at Chapel Hill*

12:00 **102 105.102**

Associations Between Repetitive Behaviours, Play and Development in Pre-School Autism. C. Holt*, K. Leadbitter, J. Green, C. R. Aldred and .. PACT Consortium, *University of Manchester*

10:00 **103 105.103**

Onset of Repetitive Behavior/Restricted Interests and Loss of Skills in Young Children with Autism. A. Thurm^{*1}, S. Shumway¹, C. Lord² and S. E. Swedo¹, (1)*National Institute of Mental Health, National Institutes of Health*, (2)*University of Michigan*

11:00 **104 105.104**

The Context of Repetitive and Stereotyped Behaviors in Young Children with Autism Spectrum Disorders: Exploring Functions. A. B. Barber^{*1}, N. J. Chambers², A. M. Wetherby³ and L. B. Swineford³, (1)*University of Alabama*, (2)*University of Witwatersrand*, (3)*Florida State University*

12:00 **105 105.105**

Pointing Study in Children with Autism. S. De Martino^{*1}, A. M. Girardot¹, C. Chatel², D. Da Fonseca³, V. Rey¹ and F. Poinso², (1)*Autism Resource Center, EHESS & CNRS, Marseille, France*, (2)*Autism Resource Center*, (3)*INCM, CNRS: Autism Resource Center*

Social Function

12:00 **106 105.106**

Adaptive Functioning as a Predictor of Treatment Success in the UCLA PEERS Program. M. J. Wang^{*1}, M. L. Clements¹, C. Mogil², A. R. Dillon² and E. Laugeson², (1)*Fuller Theological Seminary*, (2)*UCLA Semel Institute for Neuroscience & Human Behavior*

11:00 **107 105.107**

Social Skills Training for Preschool Children with Autism Spectrum Disorders: The UCLA PALS Program. J. Sanderson^{*1}, Y. C. Chang¹, R. W. Ellingsen², A. R. Dillon¹, F. Frankel¹ and E. Laugeson¹, (1)*UCLA Semel Institute for Neuroscience & Human Behavior*, (2)*University of California, Los Angeles*

12:00 **108 105.108**

Peer Relationships of Children with ASD in General Education Settings. A. Gulsrud^{*1}, J. Locke¹, E. Rotheram-Fuller² and C. Kasari¹, (1)*University of California, Los Angeles*, (2)*Temple University*

12:00 **109 105.109**

Designing Social Competence Progress Monitoring through Curriculum Based Measures: a Pilot Study. J. Stichter* and C. Schmidt, *Thompson Center for Autism and Neurodevelopmental Disabilities*

10:00 **110 105.110**

Differentiated Effects of Two Social Story™ Formats, Paper Versus Computer Assisted, on Aberrant Behavior in Children with Autism. G. R. Mancil^{*1} and P. Schaefer Whitby², (1)*Kelly Autism Program at Western Kentucky University*, (2)*University of Central Florida*

11:00 **111 105.111**

Discourse Processing in Autism: Effects of Linguistic Connectives. D. L. Williams^{*1}, R. A. Mason² and M. A. Just², (1)*Duquesne University*, (2)*Carnegie Mellon University*

12:00 **112 105.112**

Investigating Peer Interaction during Play in Children with Autism Using a New Ecologically Valid Paradigm. D. Simon^{*1}, S. P. Mendoza² and B. Corbett¹, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*University of California, Davis*

Phenotype

12:00 **113 105.113**

Using the ADI-R Diagnostic Interview to Profile the Phenotypic Characteristics In ASD. M. Foscoliano¹, P. Cavolina¹, G. Putzolu¹, S. Vacca¹, R. Fadda² and G. Doneddu^{*1}, (1)*A.O.B. (Azienda Ospedaliera Brotzu)*, (2)*University of Cagliari*

11:00 **114 105.114**

Performance of Children with Autism Spectrum Disorders and Children with Pragmatic Language Impairment on an Emotion Recognition Task. L. M. Reisinger^{*1}, K. Cornish² and S. Williams², (1)*Montreal Children's Hospital*, (2)*McGill University*

12:00 **115 105.115**

Behavioral Regulation and Risk Taking in High-Functioning Autism. J. Dana^{*1}, S. E. White¹, A. Cariello¹, M. J. Crowley² and M. South¹, (1)*Brigham Young University*, (2)*Yale University*

10:00 **116 105.116**

Emotional Mimicry and Contagion in Children with Autism, Down Syndrome and Typical Development. K. Hudry^{*1} and V. Slaughter², (1)*Institute of Education, University of London*, (2)*University of Queensland*

11:00 **117 105.117**

Person Centered Employment: Increase in Job Satisfaction, Productivity, and Decrease in Challenging Behaviors for Adults with Severe Autism. T. Todd^{*1}, T. Kozloff² and B. Fields², (1)*California State University*, (2)*California Vocations, Inc*

- 12:00 **118 105.118**
The Effects of Task Demands on Self-Monitoring for Higher Functioning Children with Autism. K. E. Ono*¹, H. A. Henderson¹, L. Mohapatra², C. Hileman¹, M. Jaime¹, N. Kojkowski¹, C. Schwartz² and P. C. Mundy³, (1)University of Miami, (2)Graduate Student, (3)UC Davis
- Repetitive Behavior*
- 12:00 **119 105.119**
Stereotypic and Repetitive Behaviour in Individuals with Autism Spectrum Disorder: a Systematic Review of Intervention Practices. S. Y. Patterson*, V. Smith and M. Jelen, *University of Alberta*
- 10:00 **120 105.120**
Characterizing Repetitive, Stereotyped, and Sensory Behaviors in Toddlers with Autism, Developmental Delay and Typical Development. J. Greenson*¹, J. Munson¹, J. Lindsey¹, J. Varley¹ and G. Dawson², (1)University of Washington, (2)Autism Speaks, UNC Chapel Hill
- 11:00 **121 105.121**
Developmental Trajectories of Repetitive Behaviors in Young Children with Autism Spectrum Disorders. P. Mirenda*¹, I. M. Smith², P. Szatmari³, S. E. Bryson², E. Fombonne⁴, W. Roberts⁵, T. Vaillancourt⁶, J. Volden⁷, C. Waddell⁸, L. Zwaigenbaum⁷, S. Georgiades⁹, A. P. Thompson³, E. Duku³ and .. Pathways in ASD Study Team⁹, (1)University of British Columbia, (2)Dalhousie University/IWK Health Centre, (3)Offord Centre for Child Studies, McMaster University, (4)McGill University, (5)University of Toronto, (6)University of Ottawa, (7)University of Alberta, (8)Simon Fraser University, (9)Offord Centre for Child Studies & McMaster University
- 12:00 **122 105.122**
Inventory of Restricted Interests and Repetitive Behaviours in Young Autistic Children: a Questionnaire for Professionals. C. Jacques*, S. Mineau, L. Mottion and C. St-Charles Bernier, *Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*
- 10:00 **123 105.123**
The Concordance of Repetitive Behaviors in Multiplex Autism Families. K. Carr*¹, J. Pandey², S. Hodgson¹, M. Barton¹, J. Green¹ and D. Fein¹, (1)University of Connecticut, (2)Children's Hospital of Philadelphia
- 11:00 **124 105.124**
Ritualistic and Adaptive Behaviors in Children with and without Autism Spectrum Disorders. C. S. Ghilain* and D. W. Evans, *Bucknell University*
- 12:00 **125 105.125**
Sex Differences in Repetitive Stereotyped Behaviors in Autism: Multiplex Versus Singleton Families. R. K. Abramson*¹, A. V. Hall², S. Ravan¹, M. L. Cuccaro³, J. R. Gilbert³, M. A. Pericak-Vance³ and H. H. Wright¹, (1)University of South Carolina School of Medicine, (2)Univ. S. Carolina Sch. Public Health, (3)University of Miami Miller School of Medicine
- 10:00 **126 105.126**
Behavioral Measure of Reward for Restricted Interests in Autism Spectrum Disorder. S. M. Bolton*¹, A. A. Cosby¹, C. P. Burnette², J. H. Foss-Feig³ and C. Cascio⁴, (1)Vanderbilt School of Medicine/Kennedy Center for Research on Human Development, (2)Vanderbilt School of Medicine, (3)Vanderbilt University, (4)Vanderbilt University School of Medicine
- 11:00 **127 105.127**
Relationship Between Social Severity and Sensory Processing in Children with High Functioning Autism Spectrum Disorders. C. Hilton*¹, P. D. LaVesser¹, J. Harper² and A. Abbacchi³, (1)Washington University, (2)Saint Louis University, (3)Washington University School of Medicine
- 12:00 **128 105.128**
Cognitive Profiles and Restricted and Repetitive Behaviors: An Early Analysis of Data from the Autism Center of Excellence and Simons Simplex Collection Studies at UIC. R. Loftin*, C. W. Brune, S. J. Guter and E. H. Cook, *University of Illinois at Chicago*
- Sensory Systems*
- 12:00 **129 105.129**
Tactile and Auditory Hypersensitivity in Individuals with Autism Spectrum Conditions. T. Tavassoli*¹, E. Ashwin¹, C. Ashwin¹, B. Chakrabarti² and S. Baron-Cohen³, (1)Autism Research Centre, University of Cambridge, (2)University of Cambridge, Autism Research Centre, (3)University of Cambridge
- 10:00 **130 105.130**
Assessments of Stimulus Modulation in Autism. M. Tommerdahl*¹, E. Francisco¹, J. Holden¹, Z. Zhang¹ and G. T. Baranek², (1)University of North Carolina, (2)University of North Carolina at Chapel Hill
- 11:00 **131 105.131**
The McGurk Effect in Children with ASD: Examining Unisensory and Multisensory Responses to Speech Cues. J. H. Foss-Feig*¹, L. E. Dowell¹, C. P. Burnette², C. Cascio³, H. Kadivar¹, M. T. Wallace¹ and W. Stone¹, (1)Vanderbilt University, (2)Vanderbilt School of Medicine, (3)Vanderbilt University School of Medicine
- 12:00 **132 105.132**
Discrimination of Visual Motion in Autism Is Normal When Response Times Are Controlled. K. von Bochmann*, N. Dill and R. J. Krauzlis, *Salk Institute for Biological Studies*
- 11:00 **134 105.134**
Visual Processing Ability Predicts Facial Affect Comprehension in Children with Autism Spectrum Disorders. C. Demopoulos*, M. Stepansky and J. D. Lewine, *Alexian Brothers Medical Center*
- 12:00 **135 105.135**
Children with Autism Spectrum Disorders and the Rubber Hand Illusion: Evidence of Decreased Multisensory Integration. C. Cascio*¹, A. A. Cosby², C. P. Burnette², J. H. Foss-Feig³ and S. M. Bolton⁴, (1)Vanderbilt University School of Medicine, (2)Vanderbilt School of Medicine, (3)Vanderbilt University, (4)Vanderbilt School of Medicine/Kennedy Center for Research on Human Development
- 10:00 **136 105.136**
Sensory Profiles and Bisensory Facilitation: Is Unimodal Processing Impaired, but Audio-Visual Integration Intact in ASD?. C. R. Stewart*¹, S. Sanchez¹, E. L. Grenesko¹, A. J. Lincoln² and R. A. Mueller¹, (1)San Diego State University, (2>Alliant International University
- 11:00 **137 105.137**
Pilot Study for Measuring Sensitivity to Social Touch in School-Age Children with Autism Spectrum Disorders. M. J. Ackerman*, P. Lewis, A. Klin and W. Jones, *Yale University School of Medicine*
- 12:00 **138 105.138**
Sensory Abnormalities in Twins with ASD: Investigating Associations with IQ and Behavioural Features of ASD. S. Lietz*¹, C. Ames¹, E. Woodcock¹, P. Bolton² and F. Happé¹, (1)Institute of Psychiatry, King's College London, (2)Institute of Psychiatry

Program

Epidemiology

11:00 **139 105.139**

Accessibility of Health Services and Age at Autism Diagnosis. A. E. Kalkbrenner*, J. L. Daniels, C. L. Poole, J. C. Chen and M. Emch, *University of North Carolina*

10:00 **140 105.140**

Changes in Documented Diagnostic Classifications of Children Identified by an Autism Spectrum Disorder Surveillance System. J. Baio¹, L. D. Wiggins^{*2}, C. E. Rice¹, O. Devine² and K. Van Naarden Braun², (1)*National Center on Birth Defects and Developmental Disabilities*, (2)*Centers for Disease Control and Prevention*

11:00 **141 105.141**

The Impact of Urbanicity on Diagnosis and Treatment of ASD. J. E. Farmer^{*1}, A. R. Marvin², C. Anderson² and K. Law², (1)*University of Missouri*, (2)*Kennedy Krieger Institute*

Thursday May 7 – PM

12:30-1:30P	Box Lunch	Normandie Lounge		
12:45-1:20P	Update on NIH Strategic Plan for Autism Research	Grand Ballroom		
1:30-5:30P	Poster Presentations II	Northwest Hall		
1:30-3:50P	Invited Educational Symposium: Mouse Models as Translational Tools to Discover Treatments for Autism Spectrum Disorders (Grand Ballroom)	Oral Presentations: Genetics (Northwest Hall 1)	Oral Presentations: Neuroimaging (Northwest Hall 2)	Oral Presentations: Screening (Northwest Hall 5)
3:50-4:30p	Break (Normandie Lounge & Grand Ballroom Foyer)			
4:30-6:00P	Lifetime Achievement Award and Presentations: From Infancy to Imaging: Autism and the Developmental Psychology of Marian Sigman (Grand Ballroom)			
6:00-7:00P	INSAR Business Meeting (Grand Ballroom)			

106 Update On Strategic Plan for Autism Research

12:45 PM - 1:20 PM - Grand Ballroom

Speaker: T. Insel; National Institutes of Health

Invited Educational Symposium**107 Mouse Models as Translational Tools to Discover Treatments for Autism Spectrum Disorders**

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

Moderators: L. Herzing¹R. Ring²; (1)Northwestern University Feinberg School of Medicine, (2)Wyeth Research

Organizers: L. Herzing¹J. N. Crawley²; (1)Northwestern University Feinberg School of Medicine, (2)National Institute of Mental Health, National Institutes of Health

Speakers: J. N. Crawley¹R. Paylor²G. Lynch³L. F. Parada⁴; (1)National Institute of Mental Health, National Institutes of Health, (2)Baylor College of Medicine, (3)University of California at Irvine, (4)University of Texas Southwestern Medical School

Animal models offer powerful research tools to test the many intriguing hypotheses about the causes of autism spectrum disorders, and to evaluate the efficacy of potential treatments. Mice are a social species, with genes, neuroanatomy, neurophysiology, and neurochemistry similar to humans. This Educational Symposium will present case studies of pharmacological, genetic, and behavioral interventions that improve symptoms in mouse models of autism spectrum disorders. Symposium chairs Laura Herzing, Northwestern University, and Robert Ring, Wyeth Research, will promote interactive discussion throughout the session. Jacqueline Crawley, NIMH, will describe mouse behavioral assays relevant to the three diagnostic criteria for autism, and the ability of juvenile peer intervention to prevent social deficits and of MPEP drug treatments to reverse repetitive behavior in the BTBR T+tf/J mouse model of autism. Richard Paylor, Baylor College of Medicine, will present genetic rescue and mGluR5 antagonist treatment of behavioral traits in the Fmr1 mouse model of Fragile X syndrome. Gary Lynch, University of California Irvine, will discuss electrophysiological and dendritic spine abnormalities in the Fmr1 and BTBR mouse models that implicate the actin filament stabilization pathway in synaptic defects. Luis Parada, University of Texas Southwestern, will demonstrate the ability of the mTOR inhibitor rapamycin to reverse macroencephaly, neuroanatomical abnormalities, seizures, and social deficits in Pten mutant mice. These studies represent just a portion of the increasing wealth of available multidisciplinary assays and heuristic mouse models, which are rapidly moving the field forward in the discovery of efficacious treatments for components of autism spectrum disorders.

- 1:30 **107.00**
Behavioral Phenotyping Assays for Translational Evaluation of Treatments In Mouse Models of Autism. J. N. Crawley*, *National Institute of Mental Health, National Institutes of Health*
- 2:00 **107.01**
Genetic and Pharmacological Modifications of Autistic-Like Behaviors in Fmr1 KO and Other Mouse Models of ASD. R. Paylor*, *Baylor College of Medicine*
- 2:30 **107.02**
Mechanisms Stabilizing Synaptic Plasticity Are Impaired In Models of Autism Associated Disorders. G. Lynch*, *University of California at Irvine*
- 3:00 **107.03**
Mouse Models as Translational Tools to Discover Treatments for Autism Spectrum Disorders: Focus On Rapamycin. J. Zhou¹, C. H. Kwon² and L. F. Parada^{*3}, (1)University of Texas Southwestern Medical Center, (2)Ohio State University, (3)University of Texas Southwestern Medical School

Oral Presentations**108 Screening**

1:30 PM - 3:30 PM - Northwest Hall Room 5

- 1:30 **108.00**
Screening with the First Year Inventory at 12 Months of Age and Diagnostic Outcomes at Two Years in a High-Risk Sample of "Infant Sibs". G. T. Baranek^{*1}, L. Zwaigenbaum², J. Brian³, S. E. Bryson⁴, E. Crais¹, J. Piven⁵, J. S. Reznick¹, W. Roberts⁶, I. M. Smith⁴, P. Szatmari⁷ and L. Watson¹, (1)University of North Carolina at Chapel Hill, (2)University of Alberta, (3)Hospital for Sick Children & Bloorview Kids Rehab, (4)Dalhousie University/IWK Health Centre, (5)University of North Carolina, (6)University of Toronto, (7)Offord Centre for Child Studies, McMaster University
- 1:50 **108.01**
Prospectively Identifying Infants 'at Risk' of An ASD in An Australian Community-Based Sample: Results from the Social Attention and Communication Study (SACS). J. Barbaro* and C. Dissanayake, *La Trobe University*
- 2:10 **108.02**
Population Based Autism Screening Program Using MCHAT. L. Boada^{*1}, E. García-Andrés¹, M. J. Ferrari¹, J. Hernández², A. Muñoz³, R. Palomo³, L. Velayos³, A. Espinosa⁴, E. Parra⁴, P. Sánchez⁴, M. J. Mardomingo⁴, R. Canal-Bedia⁵ and M. Posada de la Paz¹, (1)Carlos III Health Institute. Rare Diseases Research Institute., (2)Equipo Especifico de TGD de la CAM. Specific Educational Team for PDD in Madrid, (3)Equipo IRIDIA, (4)HGUGM. Hospital General Universitario Gregorio Marañón., (5)Universidad de Salamanca

Program

- 2:30 **108.03**
Screening Children Between 18 and 24 Months Using the Systematic Observation of Red Flags (SORF) for Autism Spectrum Disorders: a Follow-up Study. D. McCoy*, A. M. Wetherby and J. Woods, *Florida State University*
- 2:50 **108.04**
Toddler Autism Screening with M-CHAT and the CSBS-Infant Toddler Checklist. T. P. Gabrielsen*, M. Villalobos, B. Segura, N. Wahmhoff and J. Miller, *University of Utah*
- 3:10 **108.05**
The Early Screening for Autism and Communication Disorders (ESAC): Preliminary Field-Testing of An Autism-Specific Screening Tool for Children 12 to 36 Months of Age. A. M. Wetherby*, C. Lord², J. Woods¹, W. Guthrie², K. Pierce³, S. Shumway⁴, A. Thurm⁴ and S. Ozonoff⁵, (1)*Florida State University*, (2)*University of Michigan*, (3)*University of California, San Diego*, (4)*National Institute of Mental Health, National Institutes of Health*, (5)*M.I.N.D. Institute, University of California at Davis Medical Center*

Oral Presentations

109 Genetics

1:30 PM - 3:50 PM - Northwest Hall Room 1

- 1:30 **109.00**
Under-Representation of African Americans in Autism Genetic Research: a Rationale for Inclusion of Subjects Representing Diverse Family Structures. C. Hilton*, K. M. Jackson¹, R. Fitzgerald¹, R. Maxim², C. Bosworth³ and J. N. Constantino¹, (1)*Washington University School of Medicine*, (2)*Saint Louis University*, (3)*Special School District of St. Louis County*
- 1:50 **109.01**
Limited Genetic Covariance Between Autistic Traits and Intelligence: Findings from a Longitudinal Community Based Twin Study. R. A. Hoekstra*, F. Happé², S. Baron-Cohen¹ and A. Ronald³, (1)*University of Cambridge*, (2)*Institute of Psychiatry, KCL*, (3)*Birkbeck College, University of London*
- 2:10 **109.02**
Quantitative Autistic Trait Aggregation in Siblings of Autistic Proband in 1,246 IAN Families: Further Support for Differential Genetic Transmission of Simplex and Multiplex Autism. J. N. Constantino*, P. Law², A. Abbacchi¹, Y. Zhang¹, H. Lindsay¹ and C. Gruber³, (1)*Washington University School of Medicine*, (2)*Kennedy Krieger Institute*, (3)*Western Psychological Services*
- 2:30 **109.03**
Twin Concordance for Autism: a Comparison of Multiple Diagnostic Criteria in a Population-Based Twin Study. E. K. Schweigert*, M. A. Gernsbacher¹, R. L. Hefter¹, I. I. Gottesman² and H. H. Goldsmith¹, (1)*University of Wisconsin-Madison*, (2)*University of Minnesota*
- 2:50 **109.04**
Pursuit Eye Movement Abnormalities in First-Degree Relatives of Individuals with Autism. A. M. D'Cruz*, M. W. Mosconi, L. Ankeny, M. Kay, S. J. Guter, L. D. Stanford and J. A. Sweeney, *University of Illinois at Chicago*
- 3:10 **109.05**
Phenomic Determinants of Genomic Variation in Autism Spectrum Disorders. Y. Qiao¹, N. Riendeau¹, M. Koochek¹, X. Liu², C. Harvard¹, J. Hildebrand¹, J. J. A. Holden², E. Rajcan-Separovic¹ and M. E. S. Lewis*, (1)*University of British Columbia*, (2)*Queen's University*

- 3:30 **109.06**
Association Study of a Linkage Region on Chromosome 3P25 in 816 Families Shows Strong Evidence for association of *ATP2B2* with Autism and Language Delay. J. Carayol¹, M. Letexier¹, F. Tores¹, R. Francis¹, R. Sacco², A. M. Persico² and J. Hager*, (1)*IntegraGen SA*, (2)*Univ. Campus Bio-Medico*, (3)*IntegraGen*

Oral Presentations

110 Neuroimaging

1:30 PM - 3:50 PM - Northwest Hall Room 2

- 1:30 **110.00**
Early Brain Development in Toddlers with Fragile X Syndrome Compared to Toddlers with Autism. H. C. Hazlett*, A. A. Lightbody², M. D. Poe¹, A. Reiss² and J. Piven³, (1)*University of NC*, (2)*Stanford University School of Medicine*, (3)*University of North Carolina*
- 1:50 **110.01**
Relationship Between Surface Area, Brain Volume, and Cortical Thickness in Young Males with Autism. R. K. Lenroot*, D. M. Nielson¹, D. O. Black², S. J. Spence¹, A. Thurm², S. E. Swedo², F. M. Lalonde² and J. N. Giedd², (1)*NIH*, (2)*National Institute of Mental Health, National Institutes of Health*
- 2:10 **110.02**
Cerebral Organization in Young Children with Autism. C. W. Nordahl*, T. J. Simon², K. Camilleri², S. J. Rogers¹, S. Ozonoff³ and D. G. Amaral², (1)*M.I.N.D. Institute, University of California at Davis*, (2)*University of California, Davis*, (3)*M.I.N.D. Institute, University of California at Davis Medical Center*
- 2:30 **110.03**
Changes in the Developmental Trajectories of Striatum in Autism. M. Langen*, H. G. Schnack, H. Nederveen, D. Bos, B. E. Lahuis, M. V. de Jonge, H. van Engeland and S. Durston, *Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht*
- 2:50 **110.04**
Auditory Processing Differences in Autism Spectrum Individuals with and without Language Delay: An fMRI Study. F. Samson*, T. A. Zeffiro², A. Mendrek³, K. L. Hyde⁴ and L. Mottron¹, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Neural Systems Group, Massachussets General Hospital*, (3)*Centre de Recherche Fernand-Seguin, Université de Montréal*, (4)*Montreal Neurological Institute, McGill University*
- 3:10 **110.05**
Default Mode Network in Patients with High Functioning Autism Spectrum Disorders during Resting State fMRI. L. Miller¹, K. Jagannathan¹, J. O'Boyle², R. T. Schultz³, M. Stevens⁴, R. Sahl¹, G. Pearson⁴ and M. Assaf*, (1)*Institute of Living, Hartford Hospital*, (2)*Trinity College Dublin*, (3)*Children's Hospital of Philadelphia and the University of Pennsylvania*, (4)*Institute of Living, Hartford Hospital / Yale University*
- 3:30 **110.06**
Amygdala Enlargement in Toddlers with Autism Related to Severity of Social and Communication Impairments. C. M. Schumann*, C. Carter Barnes and E. Courchesne, *University of California, San Diego*

Lifetime Achievement Award and Presentations

111 From Infancy to Imaging: Autism and the Developmental Psychology of Marian Sigman

4:30 PM - 6:00 PM - Ballroom

Speakers: P. C. Mundy¹, C. Kasari², S. Bookheimer²; (1)UC Davis, (2)University of California, Los Angeles

This talk will review the major contributions Dr. Marian Sigman has made to the field of autism research over the past 30 years. Dr. Peter Mundy will talk about Dr. Sigman's interest in infant attention and the joint attention research they carried out together at UCLA. He will discuss how the translation of theory and measurement of the development of infant social attention to the study of autism with Marian, Connie Kasari & others had an impact on developmental psychopathology. Dr. Connie Kasari will present research findings on Dr. Sigman's interest in emotional development and relationships, and how these research findings influenced her newer work on interventions for children with autism and their families. Dr. Susan Bookheimer will discuss the CPEA and ACE imaging centers that Dr. Sigman's lead at UCLA, the expansion of her collaborations into autism genetics and functional imaging of social communication, and the future directions of the autism center she created.

4:30 **111.00**

Student and Developing Country Travel Awards.

5:00 **111.01**

Introductory Remarks.

5:10 **111.02**

From Infancy to Imaging: Autism and the Developmental Psychology of Marian Sigman. P. C. Mundy¹, C. Kasari² and S. Bookheimer², (1)UC Davis, (2)University of California, Los Angeles

112 Poster II

1:30 PM - 5:30 PM - Northwest Hall

Genetics

2:30 **1 112.01**

Analysis of Increased Functional Diversity by Alternative Splicing in Autism Candidate Genes. C. Hicks*, J. Del Greco, A. Tchourbanov and G. Steinhardt, *Loyola University Medical Center*

3:30 **2 112.02**

Familial Relationship for Anti-Human Brain Antibodies in Autism Spectrum Disorders (ASD). P. E. Goines^{*1}, D. Braunschweig², R. Boyce², P. Ashwood³ and J. Van de Water², (1)University of California, Davis, (2)University of California at Davis, (3)M.I.N.D. Institute, University of California at Davis

1:30 **3 112.03**

Using Perceptual Signatures to Link Genotype with Neural Alterations in Autism Spectrum Disorder (ASD) and Fragile X Syndrome (FXS). J. Hanck¹, K. Cornish¹, A. Chaudhuri¹, C. Kogan² and A. Bertone^{*3}, (1)McGill University, (2)University of Ottawa, (3)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)

2:30 **4 112.04**

Autism Traits and Schizotypal Traits in a Genetic Syndrome (47,XXY): The Role of Executive Functioning. S. Van Rijn^{*1}, A. Aleman², L. de Sonneville¹ and H. Swaab¹, (1)Leiden University, (2)University of Groningen

3:30 **5 112.05**

Birth Order Effects on the Phenotypic Expression of Autism in Multiplex Families. L. A. Martin^{*}, T. Pike, K. Shier, B. Vaudrey, B. Benson and M. Shelby, *Azusa Pacific University*

1:30 **6 112.06**

D-Cycloserine Enhances Social Cognition in An Animal Model Relevant to Autism. M. E. Modi^{*} and L. J. Young, *Emory University*

Comorbidities

2:30 **7 112.07**

Comorbidities in Adult Attendees of a Specialist Autism Clinic. D. Spain^{*1}, T. J. Lavender², C. Wilson³, S. Reed⁴, E. Daly⁵, M. Craig⁵, D. Robertson⁴, Q. Deeley⁵ and D. Murphy¹, (1)King's College London, Institute of Psychiatry, (2)Institute of Psychiatry, (3)University of Aberdeen, (4)South London & Maudsley NHS Trust, (5)Institute of Psychiatry, King's College London

3:30 **8 112.08**

Rates of Psychiatric Comorbidity in Children with High Functioning Autism and Asperger's Syndrome. R. Mahajan^{*} and S. H. Mostofsky, *Kennedy Krieger Institute, Johns Hopkins University School of Medicine*

3:30 **9 112.09**

A Comparison of Parent and Teacher ADHD Ratings in Children with Autism. D. A. Pearson^{*1}, K. A. Loveland¹, M. G. Aman², C. W. Santos¹, R. Mansour¹, S. M. Elliott¹ and L. A. Cleveland¹, (1)University of Texas Medical School at Houston, (2)Ohio State University

1:30 **10 112.10**

Comorbidity of Bipolar Disorders in Children and Adolescents with Diagnosis of Autism Spectrum Disorders. N. M. Mukaddes^{*1}, S. Herguner¹ and C. Tanidir², (1)Istanbul University, Istanbul Faculty of Medicine, (2)Istanbul University

2:30 **11 112.11**

Psychiatric Disorders in Optimal Outcome Children with a History of Autism Spectrum Disorders. K. Tyson^{*}, E. Troyb, M. Rosenthal, M. Helt, I. M. Eigsti, L. Naigles, M. Barton and D. Fein, *University of Connecticut*

3:30 **12 112.12**

Problem Behavior, Social Functioning and Academic Achievement in School-Aged Children with An Autism Spectrum Disorder. V. Rivera^{*1}, A. M. Estes¹, J. Munson¹, L. M. Elder¹, K. Burner¹ and P. Cali², (1)University of Washington, (2)University of Illinois at Chicago

1:30 **13 112.13**

Correlation of Measures of Autistic and Obsessive-Compulsive Symptoms. R. Mullaney^{*1}, P. Johnston², C. Ecker², A. Jassi¹, A. Russell³, E. Daly⁴, D. Murphy² and M. R. C. AIMS Consortium¹, (1)Institute of Psychiatry, (2)King's College London, Institute of Psychiatry, (3)Department of Psychology, (4)Institute of Psychiatry, King's College London

Program

- 2:30 **14 112.14**
Patterns of Psychotropic Medication Use in Children with Autism Spectrum Disorders. L. M. Elder*¹, J. Munson¹, A. M. Estes¹, B. King² and G. Dawson³, (1)*University of Washington*, (2)*University of Washington and Children's Hospital and Regional Medical Center*, (3)*Autism Speaks, UNC Chapel Hill*
- 3:30 **15 112.15**
Psychiatric Symptom Profiles of a Sample of Children with Asperger Syndrome. J. Bebko*¹, J. H. Schroeder² and J. A. Weiss³, (1)*York University*, (2)*York University, Toronto*, (3)*Centre for Addiction and Mental Health & York University*
- 1:30 **16 112.16**
Multi-Informant Ratings of Psychiatric Symptom Severity in Children with Autism Spectrum Disorders: The Importance of Environmental Context. S. M. Kanne*¹, A. Abbacchi² and J. N. Constantino², (1)*University of Missouri*, (2)*Washington University School of Medicine*
- 2:30 **17 112.17**
Reliability and Validity of the Children's Interview for Psychiatric Syndromes-Parent Version (P-CHIPS) in Youngsters with Autism Spectrum Disorders. A. N. Witwer* and L. Lecavalier, *Ohio State University*
- 3:30 **18 112.18**
The Complexity in Assessing the Overlap Between ADHD and ASD – a Review of Clinical Methods and the Neurobiological Evidence. N. Skokauskas*¹, L. Gallagher¹, A. Mulligan², J. Sander¹ and K. Johnson³, (1)*Trinity College Dublin*, (2)*University College Dublin*, (3)*Trinity College Institute of Neuroscience*
- 3:30 **19 112.19**
Differential or Co-Morbid Diagnoses? Asperger's Disorder and PTSD in a Pre-Schooler. A. Bernard*¹, B. Siegel² and E. Marco¹, (1)*UC San Francisco*, (2)*University of California, San Francisco*
- 1:30 **20 112.20**
Can CBCL/1.5-5 Distinguish Between Autism and Attention Deficit Disorder?. L. Albores-Gallo*¹, L. Hernández-Guzmán², J. A. Diaz-Pichardo¹, B. Cortes-Hernández¹ and C. Hasfura-Buenaga¹, (1)*Hospital Psiquiátrico Infantil Dr. Juan N. Navarro. Secretaria de Salud*, (2)*Universidad Nacional Autónoma de México*
- 2:30 **21 112.21**
Co-Occurrence of Autism Spectrum Disorders in Individuals with Gender Dysphoria. I. L. J. Noens*¹, A. L. C. de Vries², P. T. Cohen-Kettenis², T. A. H. Doreleijers² and I. A. van Berckelaer-Onnes³, (1)*Katholieke Universiteit Leuven*, (2)*VU University Medical Center*, (3)*Leiden University*
- Motor Systems*
- 3:30 **22 112.22**
Motor Abilities of Children with FXS with and without Autism: Implications for Intervention. C. Zingerevich*¹, L. Greiss-Hess², K. Lemons-Chitwood², S. W. Harris², D. Hess² and R. Hagerman³, (1)*Rady Children's Hospital*, (2)*M.I.N.D. Institute, University of California at Davis Medical Center*, (3)*UC Davis*
- 1:30 **23 112.23**
Quantitative and Qualitative Assessment of Diadochokinesia in Autism Spectrum Disorders. L. Ruta*¹, F. Taffoni², L. Mazzone¹, N. Russo¹, D. Campolo², E. Guglielmelli² and F. Keller³, (1)*University of Catania, Italy*, (2)*Lab. of Biomedical Robotics & Bio-Microsystem*, (3)*Università Campus Bio-Medico di Roma*
- 2:30 **24 112.24**
Motor Stereotypies in Autism and Rett Syndrome: Difference and Similarities. S. Goldman*¹ and T. Temudo², (1)*Albert Einstein College of Medicine*, (2)*Hospital Santo António*
- 3:30 **25 112.25**
Movement in Infants with Autism Spectrum Disorder: The Analysis of Motor Milestones in Infancy. P. Venuti*¹, G. Esposito and S. deFalco, *University of Trento*
- 1:30 **26 112.26**
Children with Autism Show Excessive Reliance on Proprioception in Building Internal Models of Action. C. C. Haswell*¹, J. Izawa¹, S. H. Mostofsky² and R. Shadmehr¹, (1)*Johns Hopkins University*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 2:30 **27 112.27**
Motor Performance in Young Children with An Autism Spectrum Disorder. S. Tomchek*¹, *Weisskopf Child Evaluation Center*
- 3:30 **28 112.28**
Examination of Motor Sequence Learning Over Multiple Sessions in Children with Autism. S. Spinelli*¹, L. R. Dowell¹ and S. H. Mostofsky², (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 3:30 **29 112.29**
Children with Autism Show Specific Handwriting Impairments. C. T. Fuentes*¹, S. H. Mostofsky² and A. J. Bastian¹, (1)*Johns Hopkins School of Medicine, Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 1:30 **30 112.30**
The Effects of Learning to Ride a Two Wheeled Bicycle on Social Skill Development in Youth with Autism Spectrum Disorder. M. I. MacDonald*¹ and D. A. Ulrich, *University of Michigan*
- 2:30 **31 112.31**
Can We Teach Youth with ASD to Ride a Two Wheel Bicycle?. D. A. Ulrich*¹, M. I. MacDonald, P. M. Esposito, I. V. Jeong and J. L. Hauck, *University of Michigan*
- 3:30 **32 112.32**
Movement Skill Performance by Children with Autism Spectrum Disorders: Delays, Deficits, and Developmental Trajectories. K. Staples*¹ and G. Reid, *McGill University*
- 1:30 **33 112.33**
Assessment and Identification of Developmental Dyspraxia in ASD. H. Stieglitz Ham*¹, A. Bartolo², M. Corley¹, S. Swanson³ and T. Rajendran⁴, (1)*University of Edinburgh*, (2)*Universite' de Lille Nord de France*, (3)*Medical College of Wisconsin*, (4)*University of Strathclyde*
- 2:30 **34 112.34**
Sensory-Motor Deficits and Poor Independence : Prevalent Difficulties Not Unique to ASD. M. Couture*¹, E. Gisel², G. Reid² and E. Fombonne², (1)*Laval University*, (2)*McGill University*
- Medical*
- 3:30 **35 112.35**
Dysmorphic Features and Development of Children with Infantile Autism. P. Gorczyca*¹, A. Kapinos-Gorczyca and R. Hese, *Medical University of Silesia*
- 1:30 **36 112.36**
Autism: Developing Best Practice in Medication Use and Support Prior to Health Care Visits. J. Reinhold*¹, G. Klayman, J. Hansen and C. Verow, *Cincinnati Children's Hospital Medical Center*
- 2:30 **37 112.37**
The Prevalence of Obesity in Children with Autism: a Secondary Data Analysis Using Nationally Representative Data from the National Survey of Children's Health. C. Curtin*¹, S. E. Anderson², A. Must³ and L. Bandini¹, (1)*University of Massachusetts Medical School*, (2)*The Ohio State University*, (3)*Tufts University School of Medicine*

- 3:30 **38 112.38**
Zinc in Autism: a Case-Control Study. A. Hagen^{*1}, E. Dewailly² and E. Fombonne³, (1)*Montreal Children's Hospital*, (2)*Laval University Medical Center*, (3)*McGill University*
- 3:30 **39 112.39**
Healthcare Utilization and Delay of Children with Learning and Behavioral Developmental Disabilities, National Health Interview Survey (NHIS), 2006-2007. V. G. Jarquin^{*1}, L. Schieve², K. Van Naarden Braun³, C. E. Rice², S. Boulet² and S. Visser², (1)*CDC*, (2)*National Center on Birth Defects and Developmental Disabilities*, (3)*Centers for Disease Control and Prevention*
- 1:30 **40 112.40**
Social Skills Training for Children with Autism Spectrum Disorders: Decreased Benefits for Children Prescribed Stimulant Medication. F. Frankel¹, E. Laugeson^{*1} and B. King², (1)*UCLA Semel Institute for Neuroscience & Human Behavior*, (2)*University of Washington and Children's Hospital and Regional Medical Center*
- 2:30 **41 112.41**
Tone Discrimination in Adolescents Who Have Lost Their Autism Diagnosis: Low-Level Auditory Perceptual Abilities. I. M. Eigsti^{*}, K. Tyson, E. Troyb, M. Rosenthal, M. Helt and D. Fein, *University of Connecticut*
- 3:30 **42 112.42**
Early Development of Head Circumference in Autistic Children: Searching Clinical Subtypes. F. Muratori^{*}, M. Telleschi, E. Santocchi, R. Tancredi, R. Iglizzi, B. Parrini, F. Apicella, A. Narzisi and S. Calderoni, *University of Pisa – Stella Maris Scientific Institute*
- 1:30 **43 112.43**
Electrocortical and Behavioral Outcomes of Novel Experimental Trial of Repetitive Transcranial Magnetic Stimulation in Autism. E. M. Sokhadze, A. S. El-Baz, J. M. Baruth, A. Tasman, G. Mathai, L. Sears and M. F. Casanova^{*}, *University of Louisville*
- 2:30 **44 112.44**
Contributions of Parieto-Temporal Brain Activity, Medial-Frontal Brain Activity, and Vagal Control of the Heart to Social Skills in Children with Autism. A. Meyer^{*}, J. Karst and A. V. Van Hecke, *Marquette University*
- 3:30 **45 112.45**
The Assessment of and Differences among Intellectually Disabled Adults with Comorbid Autism Spectrum Disorders and Epilepsy. K. R. Smith^{*} and J. L. Matson, *Louisiana State University*
- 1:30 **46 112.46**
EEG Theta Oscillations in Children with Autism. M. Murias^{*1}, S. Faja¹ and G. Dawson², (1)*University of Washington*, (2)*Autism Speaks, UNC Chapel Hill*
- 2:30 **47 112.47**
Clinical Profile of Clients in a Specialized Dual Diagnosis Program: Comparison of Individuals with and without ASD. S. E. White^{*}, Y. Lunskey, A. M. Palucka and M. Reid, *Centre for Addiction and Mental Health*
- 3:30 **48 112.48**
The Development of Perceptual Expertise for Faces and Objects in Autism Spectrum Conditions. C. Damiano^{*1}, O. Churches², H. Ring² and S. Baron-Cohen², (1)*Vanderbilt University*, (2)*University of Cambridge*
- 3:30 **49 112.49**
The Development of Shared Reference in Individuals with High Functioning Autism or Asperger's Syndrome. H. M. Marwick^{*}, *University of Strathclyde*
- 1:30 **50 112.50**
Using Semantic Web Technologies to Standardize a Catalog of Autism Phenotypes. A. K. Das^{*}, L. Tennakoon and S. W. Tu, *Stanford University*
- 2:30 **51 112.51**
The Clinical Validity of Childhood Disintegrative Disorder. A. Westphal^{*1}, K. Koenig¹ and F. R. Volkmar², (1)*Yale Child Study Center*, (2)*Yale University School of Medicine*
- Clinical Instruments/Diagnosis*
- 3:30 **52 112.52**
Advancing Early Detection of Autism Spectrum Disorder by Applying An Integrated Two-Stage Screening Approach. R. J. Van der Gaag^{*1}, I. J. Oosterling², M. Wensing¹, S. Swinkels³, J. K. Buitelaar⁴, R. B. Minderaa⁵ and M. P. Steenhuis⁶, (1)*Centre for Quality of Care Research, Radboud University Nijmegen Medical Centre, The Netherlands*, (2)*Karakter University Centre*, (3)*Karakter Child and Adolescent Psychiatry University Center*, (4)*Radboud University Nijmegen Medical Centre, Nijmegen Centre for Evidence-Based Practice*, (5)*University Medical Center Groningen*, (6)*University of Groningen and University Medical Center Groningen*
- 1:30 **53 112.53**
Autism Symptom Clustering Scale: a Tool for Management of ASD. M. Brimacombe^{*} and X. Ming, *New Jersey Medical School - UMDNJ*
- 2:30 **54 112.54**
Development and Validation of the Autistic Learning Disabilities Inventory (ALD-I): Operationalizing Autistic Symptomatology for Individualizing Treatment. B. Siegel^{*1}, A. Bernard¹, C. Ceros², W. Mu³ and T. Sendowski¹, (1)*University of California, San Francisco*, (2)*University of Washington*, (3)*Wellesley College*
- 3:30 **55 112.55**
CARS and ADI-R Profiles of Children with Asperger Syndrome in Comparison with Those with Autism. J. H. Schroeder^{*1}, J. Bebko², J. A. Weiss³, K. McFee¹, C. A. McMorris¹, L. Hancock² and K. Wells², (1)*York University, Toronto*, (2)*York University*, (3)*Centre for Addiction and Mental Health & York University*
- 1:30 **56 112.56**
IMFAR Analysis in Support of NDAR Strategic Requirements. D. Hall^{*1}, J. Chung² and G. Navidi¹, (1)*National Institute of Mental Health, National Institutes of Health*, (2)*Georgetown University Medical School*
- 2:30 **57 112.57**
Development of a Functional Classification System for Children with Autism Spectrum Disorder: Starting the Process. B. M. Di Rezze^{*1}, V. Thakur¹, P. Rosenbaum¹ and L. Zwaigenbaum², (1)*McMaster University*, (2)*University of Alberta*
- 3:30 **58 112.58**
Description of the RESEARCH Group on Pervasive Developmental Disorders in São Paulo- Brazil. R. L. Velloso, A. A. Vinic, S. H. B. Ribeiro, C. S. de Paula^{*}, D. Brunoni and J. S. Schwartzman, *Universidade Presbiteriana Mackenzie*
- 3:30 **59 112.59**
Detailed Information Perception in Adults with HFA or Asperger Syndrome; Assessment and Interpretation. A. A. Spek^{*1}, E. M. Scholte² and I. A. van Berckelaer-Onnes², (1)*Mental Health Institution Eindhoven*, (2)*Leiden University*

Program

1:30 **60 112.60**
Parent and Teacher Ratings of Executive Function Deficits Related to ADHD--Not Autistic--Symptomatology. D. A. Pearson*¹, K. A. Loveland¹, M. G. Aman², C. W. Santos¹, C. D. Casat³, R. Mansour¹, S. M. Elliott¹, P. I. Factor¹ and L. A. Cleveland¹, (1)*University of Texas Medical School at Houston*, (2)*Ohio State University*, (3)*Carolina NeuroSolutions, LLC*

2:30 **61 112.61**
Validity and Reliability of a New Measure of Joint Attention in School-Age Children and Adolescents. J. L. Bean* and I. M. Eigsti, *University of Connecticut*

Longitudinal

3:30 **62 112.62**
Differences in Parental Reports of Behavior: a Possible Factor in Disparities of Age at Diagnosis of Autism Spectrum Disorders in African Americans. A. R. Wimsatt, A. Rozga* and D. L. Robins, *Georgia State University*

1:30 **63 112.63**
Prediction of Outcome after One Year of Early Intensive Behavioral Intervention. T. Smith*¹, R. Klorman¹ and D. W. Mruzek², (1)*University of Rochester*, (2)*University of Rochester Medical Center*

2:30 **64 112.64**
Change in Autism Classification with Early Intervention: Predictors and Outcome. E. Ben-Itzhak*¹ and D. Zachor², (1)*Ariel University Center/ Assaf Harofeh Medical Center*, (2)*Tel Aviv University / Assaf Harofeh Medical Center*

3:30 **65 112.65**
Evaluation of the Autism Ontario Realize Community Potential Program. K. McFee*¹, J. H. Schroeder¹, J. Bebko², M. Thompson³, K. Stoner³, M. Spoelstra³ and L. Verbeek³, (1)*York University, Toronto*, (2)*York University*, (3)*Autism Ontario*

1:30 **66 112.66**
Is Adverse Perinatal Outcome Associated with IQ in Children with Autism Spectrum Disorders?. L. A. Schieve*¹, C. E. Rice¹, J. Baio¹, M. Durkin², R. S. Kirby³, C. Drews-Botsch⁴, J. S. Nicholas⁵, L. Miller⁶ and C. M. Cunniff⁷, (1)*National Center on Birth Defects and Developmental Disabilities*, (2)*University of Wisconsin-Madison*, (3)*University of South Florida*, (4)*Rollins School of Public Health, Emory University*, (5)*Medical University of South Carolina*, (6)*Colorado Department of Public Health and Environment*, (7)*University of Arizona College of Medicine*

2:30 **67 112.67**
An Investigation of the Longitudinal Relationship Between Internalizing Traits and Autistic-Like Traits within a Community-Based Twin Sample. V. J. Hallett*¹, A. Ronald², F. Rijdsdijk¹ and F. Happé¹, (1)*Institute of Psychiatry, KCL*, (2)*Birkbeck College, University of London*

3:30 **68 112.68**
Deviations from Normal Birth Weight and Autism Risk — California, 1989–2002. J. Zipprich*¹, G. C. Windham², M. Anderson³ and J. K. Grether², (1)*Centers for Disease Control and Prevention & California Department of Public Health*, (2)*California Department of Public Health*, (3)*Impact Assessment, Inc.*

3:30 **69 112.69**
Intellectual Functioning and Severity of Autism Symptomatology Over Time. C. Shulman* and M. Ezra, *The Hebrew University of Jerusalem*

Social Function and Treatment

1:30 **70 112.70**
The Effect of Perceived Inclusion on Middle School Students' Attitudes and Actions toward a Peer with Autism. B. L. Kelleher* and E. R. Hahn, *Furman University*

2:30 **71 112.71**
Designing Inclusive Educational Spaces for Children with Autism. R. Khare*¹ and A. Mullick², (1)*Birla Institute of Technology*, (2)*Georgia Institute of Technology*

3:30 **72 112.72**
From the Laboratory to the Blackboard Jungle: Conducting Technology-Based Research in the Inclusion Setting. M. Levine*¹, K. Hearsey², N. Woods¹, L. Kozar², L. Zekanovic¹ and J. Barnwell², (1)*SymTrend, Inc.*, (2)*University of North Carolina at Chapel Hill*

1:30 **73 112.73**
"Who Makes a Good Friend?" Characteristics of Peer Models for Children with Autism. J. Locke*¹, A. Gulsrud¹, C. Kasari and L. Huynh, *University of California, Los Angeles*

2:30 **74 112.74**
Do Motor Difficulties Contribute to Peer Rejection and Social Isolation in 'High-Functioning' Children with Autistic Spectrum Disorders?. M. Murin*¹, L. Slator¹, W. Mandy² and D. H. Skuse³, (1)*Great Ormond Street Hospital for Children*, (2)*University College London*, (3)*Institute of Child Health*

3:30 **75 112.75**
Towards Designing An Interactive and Intelligent Tool for Social Skill Development of Individuals with HFA. J. C. C. Gillesen¹, R. I. Arriaga*² and M. Riedl³, (1)*Eindhoven University of Technology*, (2)*Georgia Institute of Technology*, (3)*Georgia Tech*

1:30 **76 112.76**
Dissemination of Evidence-Based Practice: Can We Train Therapists from a Distance?. L. A. Vismara*¹, G. S. Young², A. Stahmer³, E. McMahon-Griffith⁴ and S. J. Rogers¹, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*M.I.N.D. Institute, University of California at Davis Medical Center*, (3)*Rady Children's Hospital*, (4)*University of Alabama at Birmingham*

2:30 **77 112.77**
Enriched Home Environment: a Model & Intervention to Facilitate Participation in Children with ASD. D. Sood*¹, S. Iovaldi and J. Bunn, *University of Missouri*

3:30 **78 112.78**
CARE for the Caregivers: Supports for Better HEALTH Outcomes in Mothers of Children with Autistic Spectrum Disorder. P. S. Hutchinson* and S. E. Bryson, *Dalhousie University/IWK Health Centre*

3:30 **79 112.79**
Daily Stress and Negative Affect among Mothers of Children with Autism Spectrum Disorder: The Role of Psychological Resilience. N. Ekas* and T. L. Whitman, *University of Notre Dame*

1:30 **80 112.80**
Awareness of Friendships and Rejections: a Comparison Between Children with Autism Spectrum Disorders and Children with Typical Development. E. H. Ishijima*¹, M. Kretzmann, J. Locke and C. Kasari, *University of California, Los Angeles*

2:30 **81 112.81**
The Need for Social Belonging in Individuals with Extreme Autistic-Like Traits. L. A. Harborow*¹, V. Locke and M. Maybery, *University of Western Australia*

- 3:30 **82 112.82**
Social Preferences in High Functioning Autism: The Role of Theory of Mind and Empathy. V. Pelligra^{*1}, G. Doneddu², A. Isoni³, P. M. Peruzzi² and R. Fadda¹, (1)University of Cagliari, (2)A.O.B. (Azienda Ospedaliera Brotzu), (3)University of East-Anglia
- 1:30 **83 112.83**
Shyness, Sociability, and Social Dysfunction in Adults with Autism. I. E. Drmic^{*1}, S. E. Bryson², M. K. Jetha³ and L. A. Schmidt⁴, (1)Hospital for Sick Children, (2)Dalhousie University/IWK Health Centre, (3)Brock University, (4)McMaster University
- Emotion Processing*
- 2:30 **84 112.84**
Processing of Affective Information in Face, Voice, and Situational Contexts in Children with Autism Spectrum Disorders. L. M. Black^{*1}, J. P. H. van Santen¹, R. Coulston¹, J. de Villiers¹ and R. Paul², (1)Oregon Health & Science University, (2)Yale University School of Medicine
- 3:30 **85 112.85**
Assessment of Empathy in Pervasive Development Disorder through Tasks of Judging Basic Facial Expressions. C. S. de Paula^{*}, A. A. Vinic and J. S. Schwartzman, *Universidade Presbiteriana Mackenzie*
- 1:30 **86 112.86**
Can Children with Autism Recognise Emotions from Moving Faces?. S. Garib-Penna^{*}, D. G. Moore and R. George, *University of East London*
- 2:30 **87 112.87**
Facial Affect Recognition in Individuals with Autism Spectrum Disorders. L. Guy^{*1}, D. Glass², K. Rockers¹, O. Ousley³, K. Kulka¹ and A. Pakula¹, (1)Emory University School of Medicine, (2)Marcus Autism Center, (3)Emory University
- 3:30 **88 112.88**
"Who Said That?" Affective Face and Voice Matching in Adolescents with Autism. R. B. Grossman^{*}, M. Kennedy and H. Tager-Flusberg, *Boston University School of Medicine*
- 3:30 **89 112.89**
Emotion Recognition in ASD: An Investigation in the Visual and Auditory Modalities. C. R. G. Jones^{*1}, A. Pickles², A. J. S. Marsden³, F. Happé⁴, S. Scott⁵, D. A. Sauter⁶, J. Tregay³, R. J. Phillips³, G. Baird⁷, E. Simonoff⁸ and T. Charman¹, (1)Institute of Education, University of London, (2)University of Manchester, (3)UCL Institute of Child Health, (4)Institute of Psychiatry, KCL, (5)UCL Institute of Cognitive Neuroscience, (6)Max Planck Institute for Psycholinguistics, (7)Guy's Hospital, (8)Institute of Psychiatry
- 1:30 **90 112.90**
Investigating the Role of Emotion Perception in the Communication Skills of Individuals on the Autism Spectrum. M. S. Banks^{*1}, D. L. Robins², T. Z. King¹ and C. C. Henrich², (1)Psychology, Georgia State University, (2)Georgia State University
- 2:30 **91 112.91**
Affective Expression in Verbal Children with Autism during Instrumental and Interpersonal Interactions. K. Leadbitter^{*1} and C. Lewis², (1)University of Manchester, (2)Lancaster University
- 3:30 **92 112.92**
Evidence for a Risk Averse Decision-Making Style in Autism Spectrum Disorders. S. A. Johnson^{*1}, J. H. Filliter¹, T. J. Pleskac², S. Queller³, A. B. Murton¹, S. E. Bryson⁴ and I. M. Smith⁴, (1)Dalhousie University, (2)Michigan State University, (3)Indiana University, (4)Dalhousie University/IWK Health Centre
- 1:30 **93 112.93**
Self-Reported Anxiety Following An Evaluated Verbal Performance Task: Similarities and Differences Between Children with and without Autism. K. Lanni^{*1}, D. Simon² and B. Corbett², (1)Washington State University, (2)M.I.N.D. Institute, University of California at Davis
- 2:30 **94 112.94**
Empathy: Understanding and Real Life Behavior in Children with Autism Spectrum Disorder. A. M. Scheeren^{*}, S. Begeer, H. M. Koot and J. van Wijhe, *VU University*
- 3:30 **95 112.95**
Behavioral and Physiological Responses to Name Call in Young Boys with Autism Spectrum Disorders. M. L. DeRamus^{*1}, L. Watson¹, G. T. Baranek¹ and J. Roberts², (1)University of North Carolina at Chapel Hill, (2)Barnwell College, University of South Carolina
- 2:30 **97 112.97**
Face Scanning Distinguishes Social and Communication Impairments in Autism. T. Falck-Ytter^{*} and C. von Hofsten, *Uppsala University*
- 3:30 **98 112.98**
Identification of Distinctive Faces in Individuals with Autism. D. Wilkinson^{*1}, N. J. Minshew² and M. S. Strauss¹, (1)University of Pittsburgh, (2)University of Pittsburgh School of Medicine
- 3:30 **99 112.99**
Fixation Patterns to Faces in Autism: Investigating the Influence of Task Requirements. D. P. Kennedy^{*}, J. Gläscher, M. L. Spezio, L. K. Paul and R. Adolphs, *Caltech*
- 1:30 **100 112.100**
The Impact of Perceptual and Social Mechanisms on Human vs. Cartoon Emotion Processing in Children with High-Functioning Autism. D. Rosset^{*1}, D. Da Fonseca¹, A. Santos², F. Poinso³ and C. Deruelle², (1)INCM, CNRS; Autism Resource Center, (2)INCM, CNRS, (3)Autism Resource Center
- 2:30 **101 112.101**
Can People with Asperger Syndrome Identify Fake Smiles?. S. J. Wheelwright^{*}, C. Dickinson, V. Pile, A. Seleznev and S. Baron-Cohen, *University of Cambridge*
- Cognition*
- 3:30 **102 112.102**
Do You See What I See? the Influence of Working Memory on Shared Knowledge in Children with Autism and Typical Development. J. Schuh^{*}, D. Mirman, T. Gustafson and I. M. Eigsti, *University of Connecticut*
- 1:30 **103 112.103**
Do Others' Faces Hold Attention in Children with ASD When They Fixate to the Eyes?. Y. Kikuchi^{*1}, A. Senju², H. Akechi¹, Y. Tojo³, T. Hasegawa¹ and H. Osanai⁴, (1)The University of Tokyo, (2)Birkbeck, University of London, (3)Ibaraki University, (4)Musashino Higashi Gakuen
- 2:30 **104 112.104**
Do Children with ASD Use Referential Gaze to Learn the Name of An Object?: An Eye-Tracking Study. H. Akechi^{*1}, A. Senju², Y. Kikuchi¹, Y. Tojo³, H. Osanai⁴ and T. Hasegawa¹, (1)The University of Tokyo, (2)Birkbeck, University of London, (3)Ibaraki University, (4)Musashino Higashi Gakuen
- 3:30 **105 112.105**
Combining Computerized Cognitive Measures to Improve the Classification of Autism. J. Breidbord^{*1}, B. Chakrabarti², S. J. Wheelwright¹ and S. Baron-Cohen¹, (1)University of Cambridge, (2)University of Cambridge, Autism Research Centre

Program

- 1:30 **106 112.106**
The Paradox of Cognitive Flexibility in Autism. H. M. Geurts*¹, B. Corbett² and M. Solomon³, (1)*University of Amsterdam*, (2)*M. I.N.D. Institute, University of California at Davis*, (3)*MIND Institute, Imaging Research Center*
- 2:30 **107 112.107**
Evidence for Thinking in Pictures as a Cognitive Account of Autism. M. Kunda* and A. K. Goel, *Georgia Institute of Technology*
- 3:30 **108 112.108**
Autism Severity and Its Impact on Cognitive Development in Young Children with Autism. G. Mathai*¹, L. Sears¹ and L. A. Ruble², (1)*University of Louisville*, (2)*University of Kentucky*
- 3:30 **109 112.109**
Autism Spectrum and Executive Function. R. Pytlik*, F. R. Ferraro and N. Seibold, *University of North Dakota*
- 1:30 **110 112.110**
Imagination, False Belief and Counterfactual Reasoning in Children with Autism Spectrum Disorders. S. Begeer*¹, M. Meerum Terwogt², P. Lunenburg³ and H. Stegge², (1)*VU University*, (2)*VU University Amsterdam*, (3)*De Bascule*
- 2:30 **111 112.111**
Executive Functioning in Young Adults with Sub-Threshold Autism Traits. S. E. Christ*¹, S. M. Kanne¹ and A. Reiersen², (1)*University of Missouri*, (2)*Washington University at St. Louis Missouri*
- 3:30 **112 112.112**
Executive Functioning in Children with ASDs Who Have Achieved Optimal Outcomes. E. Troyb*, M. Rosenthal, K. Tyson, M. Helt, I. M. Eigsti, L. Naigles, M. Barton and D. Fein, *University of Connecticut*
- 1:30 **113 112.113**
Is It a Girl or a Boy? Adaptive Coding of Gender in Children with Autism. E. Pellicano*¹, E. Jaquet¹, L. Jeffery² and G. Rhodes², (1)*University of Bristol*, (2)*University of Western Australia*
- 2:30 **114 112.114**
Delayed Self-Recognition in Children with Autistic Disorder and Asperger's Disorder: Evidence for a Temporally Extended Self. C. Dissanayake*¹, J. Shembrey¹ and T. Suddendorff², (1)*La Trobe University*, (2)*University of Queensland*
- 3:30 **115 112.115**
Determining Implicit and Explicit Contributions to Sequence Learning in ASC. J. Brown*¹, B. Aczél¹, L. Jiménez² and K. Plaisted Grant¹, (1)*University of Cambridge*, (2)*University of Santiago*
- 1:30 **116 112.116**
Behavioral Evidence for Atypical Spatial Filtering Properties in Autism : Enhanced Sensitivity for High-Spatial Frequency Information. J. Bertrand-Rivest*¹, L. Kéïta¹, J. Faubert², L. Mottron¹ and A. Bertone¹, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Université de Montréal*
- 2:30 **117 112.117**
Generativity Abilities Predict Communication Deficits but Not Repetitive Behaviors in Autism Spectrum Disorders. T. N. Holtzclaw*¹, G. Dichter², K. S. L. Lam³, L. Turner-Brown³ and J. Bodfish³, (1)*University of Alabama*, (2)*University of North Carolina*, (3)*University of North Carolina at Chapel Hill*
- 3:30 **118 112.118**
Episodic Autobiographical Memory, Time Perception and Self-Awareness in ASC. L. Maister* and K. Plaisted Grant, *University of Cambridge*
- 3:30 **119 112.119**
Category Formation in Autism: Can Individuals with Autism Form Categories of Dot Patterns. H. Z. Gastgeb*¹, E. M. Dundas¹, N. J. Minshew² and M. S. Strauss¹, (1)*University of Pittsburgh*, (2)*University of Pittsburgh School of Medicine*
- 1:30 **120 112.120**
How Do Individuals with ASD Process and Copy Ambiguous Figures?. M. L. Allen* and A. Chambers, *Lancaster University*
- 2:30 **121 112.121**
Autistic Disturbances of Affective Contact: Are Cognitive Accounts Sufficient?. S. B. Gaigg* and D. M. Bowler, *City University, London*
- 3:30 **122 112.122**
Imitation-Dependent Visuomotor Sequence Learning in ASD. L. R. Dowell*¹ and S. H. Mostofsky², (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 1:30 **123 112.123**
The Level and Nature of Autistic Intelligence II: What about Asperger Syndrome?. L. Mottron*¹, I. Soulières¹, M. A. Gernsbacher² and M. Dawson¹, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*University of Wisconsin-Madison*
- 2:30 **124 112.124**
Attention, Executive Function, and Response Inhibition in Autism Spectrum Disorders. R. Mutreja*, *Texas Tech University*
- 3:30 **125 112.125**
A Study of Attentional Networks in Individuals with Autism Spectrum Disorder. B. Keehn*¹, A. J. Lincoln², R. A. Müller³ and J. Townsend⁴, (1)*San Diego State University / University of California, San Diego*, (2)*Alliant International University*, (3)*San Diego State University*, (4)*University of California, San Diego*
- 1:30 **126 112.126**
Multisensory Selective Attention: Evidence of Enhanced Performance Facilitation in ASD with the Introduction of Distractor-Target Intervals. N. Russo*¹, J. A. Burack², L. Mottron³ and B. Jemel⁴, (1)*The Children's Research Unit (CRU), Program in Cognitive Neuroscience, City College of New York*, (2)*McGill University*, (3)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (4)*Research, Lab, Neurosciences, and, Cognitive, Electrophysiology*
- 2:30 **127 112.127**
Attention and Cross-Modal Integration in Children with Autism Spectrum Disorder. B. Keehn*¹, M. Westerfield², A. J. Lincoln³ and J. Townsend², (1)*San Diego State University / University of California, San Diego*, (2)*University of California, San Diego*, (3)*Alliant International University*
- 3:30 **128 112.128**
Being the Subject of Another's Attention; Differences in Skin Conductance Levels in Children with High-Functioning Autism and Asperger Syndrome. S. Stagg*, P. Heaton and R. Davis, *Goldsmiths College, University of London*
- 2:30 **129 112.129**
The Effects of a Modified Learning Strategy on the Mathematical Word Problem Solving Ability of Middle School Students with High Functioning Autism. P. Schaefer Whitby*¹ and G. R. Mancil², (1)*University of Central Florida*, (2)*Kelly Autism Program at Western Kentucky University*

Communication/Language

- 1:30 **130 112.130**
Randomized Study Contrasting Behavioral and Naturalistic Approaches to Inducing Speech in Prelinguistic Children with Autism Spectrum Disorders: Preliminary Analysis. B. Reichow*¹, R. Paul², E. Schoen¹ and M. Lewis¹, (1)*Yale Child Study Center*, (2)*Yale University School of Medicine*
- 2:30 **131 112.131**
The Impact of Augmentative and Alternative Communication on the Development of Functional Communication Skills in Individuals with Autism Spectrum Disorders: a Meta-Analysis of Intervention Research from 1976-2008. O. Wendt*¹, R. Schlosser² and L. L. Lloyd¹, (1)*Purdue University*, (2)*Northeastern University*
- 3:30 **132 112.132**
Is Language Regression Related to a Theory of Mind?. A. Lukowski*, N. Basehore, K. Osann, M. M. Abdullah, A. R. Ly and W. A. Goldberg, *University of California, Irvine*
- 1:30 **133 112.133**
Diagnostic Differentiation of Autism Disorders and Pragmatic Language Impairment. L. M. Reisinger*¹, K. Cornish², E. Fombonne², J. A. Burack² and L. Tidmarsh², (1)*Montreal Children's Hospital*, (2)*McGill University*
- 2:30 **134 112.134**
Use of Evidentials in Turkish-Speaking Children with High Functioning Autism. S. Tek* and L. Naigles, *University of Connecticut*
- 3:30 **135 112.135**
A Comparison of the Effect of Object and Gesture Imitation Training on Language Use in Children with Autism. K. Lalonde* and B. Ingersoll, *Michigan State University*
- 1:30 **136 112.136**
Conversation in High-Functioning Autism: Do Linguistic and Pragmatic Features Vary Depending on the Topic Being Discussed?. A. Nadig*¹, I. Lee², L. Singh² and S. Ozonoff³, (1)*McGill University*, (2)*Boston University*, (3)*M.I.N.D. Institute, University of California at Davis Medical Center*
- 2:30 **137 112.137**
Do You See What I'm Saying? Deficits in the Visual Enhancement of Speech Comprehension Under Noisy Environmental Conditions in Autism. J. J. Foxe*¹, L. A. Ross¹, D. Blanco¹, D. Saint-Amour² and S. Molholm³, (1)*City College of New York*, (2)*CHU Sainte-Justine Research Centre*, (3)*The Children's Research Unit (CRU), Program in Cognitive Neuroscience, City College of New York*
- 3:30 **138 112.138**
Do Children with Autism Show Collaborative Competence in Dialogue?. J. A. Hobson*¹, P. Hobson², F. Larkin³ and A. Tolmie³, (1)*Institute of Child Health, UCL*, (2)*University College London and Tavistock Clinic, London*, (3)*Institute of Education*

Friday May 8 – AM				
7:00- 5:00p	Registration (Normandie Lounge)			
7:00-8:30A	Special Interest Group: Sleep and Autism (Northwest Hall 5)			
7:45-4:00P	Exhibits (Grand Ballroom Foyer)			
7:45-8:40A	Coffee & Pastries (Normandie Lounge & Grand Ballroom Foyer)			
8:40-10A	Keynote Address: What Would “Better” Diagnoses of ASDs Look Like? (Grand Ballroom)			
9:00-5:30P	Innovative Technologies Demonstration Session (Boulevard Room)			
9:00-1:00P	Poster Presentations III (Northwest Hall)			
10:00-10:30A	Break (Northwest Hall and Normandie Lounge)			
10:30A-12:30P	Invited Educational Symposium: Neuropathology and Neuroimaging (Grand Ballroom)	Oral Presentations: Motor Function (Northwest Hall 1)	Oral Presentations: Toddlers (Northwest Hall 2)	Oral Presentations: Epidemiology (Northwest Hall 5)

Special Interest Group

113 Sleep and Autism

7:00 AM - 8:30 AM - Northwest Hall Room 5

Organizers: B. A. Malow¹A. Richdale²; (1)Vanderbilt University, (2)La Trobe University

7:00 **113.00**

Sleep - Special Interest Group. B. A. Malow^{*1} and A. Richdale², (1)Vanderbilt University, (2)Olga Tennison Autism Research Centre

Keynote Address

114 What Would “Better” Diagnoses of ASDs Look Like?”

8:40 AM - 10:00 AM - Grand Ballroom

Speaker: C. Lord; University of Michigan

8:40 **114.00**

Introduction/Simons Foundation Autism Research Initiative - Gerald D. Fischbach.

9:00 **114.01**

What Would “Better” Diagnoses of ASDs Look Like?.

Invited Educational Symposium

115 Neuropathology and Neuroimaging

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

Organizer: G. Blatt; Boston University School of Medicine

Speakers: N. J. Minshew¹G. Blatt²D. C. Chugani³D. Murphy⁴; (1)University of Pittsburgh School of Medicine, (2)Boston University School of Medicine, (3)School of Medicine, Wayne State University, (4)King’s College London, Institute of Psychiatry

10:30 **115.00**

The Continuing Story of Connections in Autism: Truly A Distributed Neural Network Disorder. N. J. Minshew^{*1}, M. Behrmann², C. Thomas³ and K. Humphreys⁴, (1)University of Pittsburgh School of Medicine, (2)Carnegie Mellon University, (3)Harvard Medical School, (4)Institute of Psychiatry

11:00 **115.01**

Alterations in Key GABAergic Biomarkers in Autism: Potential Disruption of Inhibitory Networks. G. Blatt^{*}, Boston University School of Medicine

11:30 **115.02**

Neurochemical Developmental Regulation In Autism. D. C. Chugani^{*}, School of Medicine, Wayne State University

12:00 **115.03**

Neuropathology and Brain Imaging – How Can They Inform Each Other ?. D. Murphy^{*}, King’s College London, Institute of Psychiatry

Oral Presentations

116 Motor Function

10:30 AM - 12:30 PM - Northwest Hall Room 1

10:30 **116.00**

Does Motor Skill Competence Distinguish Subtypes of Pervasive Developmental Disorder in a ‘High-Functioning’ Population of Children?. L. Slator^{*1}, W. Mandy², K. Puura³, M. Kaartinen³, M. Murin⁴ and D. H. Skuse¹, (1)Institute of Child Health, (2)University College London, (3)Tampere University Hospital, (4)Great Ormond Street Hospital for Children

10:50 **116.01**

Children with Autism Show Enhanced Somatosensory-Guided Motor Learning. L. R. Dowell¹, M. E. Richardson¹, A. J. Bastian² and S. H. Mostofsky^{*3}, (1)Kennedy Krieger Institute, (2)Johns Hopkins School of Medicine, Kennedy Krieger Institute, (3)Kennedy Krieger Institute, Johns Hopkins University School of Medicine

11:10 **116.02**

A Link Between Grammar and Dyspraxia in Boys with Autism. M. Walenski^{*1}, S. H. Mostofsky² and M. T. Ullman³, (1)San Diego State University, (2)Kennedy Krieger Institute, Johns Hopkins University School of Medicine, (3)Georgetown University

11:30 **116.03**

Physical Activity and Screen Time in Children with Autism Spectrum Disorders. L. Bandini^{*1}, J. M. Gleason¹, C. Curtin¹, S. E. Anderson², S. A. Cermak³, M. C. T. Maslin¹ and A. Must⁴, (1)University of Massachusetts Medical School, (2)The Ohio State University, (3)University of Southern California, (4)Tufts University School of Medicine

11:50 **116.04**

Basal Ganglia Shape Predicts Social and Motor Dysfunction in Boys with Autism. A. Qui¹, D. Crocetti², M. C. Adler^{*3}, M. I. Miller¹ and S. H. Mostofsky⁴, (1)Johns Hopkins University, (2)Kennedy Krieger Institute, (3)Teachers College at Columbia University, (4)Kennedy Krieger Institute, Johns Hopkins University School of Medicine

12:10 **116.05**

Neural Correlates of Motor-Linked Implicit Learning in Autism Spectrum Disorders. B. G. Travers^{*1}, C. L. Klein¹, M. R. Klinger¹, L. G. Klinger¹ and R. K. Kana², (1)University of Alabama, (2)University of Alabama at Birmingham

Oral Presentations**117 Toddlers**

10:30 AM - 12:30 PM - Northwest Hall Room 2

10:30 **117.00**

Atypical Activity Monitoring in 20-Month Old Toddlers with and without Autism Spectrum Disorder. F. Shic^{*1}, J. Bradshaw¹, B. Scassellati², A. Klin¹ and K. Chawarska¹, (1)*Yale University School of Medicine*, (2)*Yale University*

10:50 **117.01**

Subtypes of Toddlers with Autism Spectrum Disorders. L. D. Wiggins^{*1} and D. L. Robins², (1)*Centers for Disease Control and Prevention*, (2)*Georgia State University*

11:10 **117.02**

Perception of Audiovisual Synchrony Under Varying Degrees of Social Context in Infants with Autism. J. B. Northrup^{*}, D. Lin, G. Ramsay, A. Klin and W. Jones, *Yale University School of Medicine*

11:30 **117.03**

Does Audiovisual Synchrony Predict Visual Fixation Patterns in 2-Year-Old Children with Autism?. J. Xu^{*}, G. Ramsay, A. Klin and W. Jones, *Yale University School of Medicine*

11:50 **117.04**

Assessing Joint Attention in Autism across Multiple Settings. R. Fadda^{*1}, E. Sitzia² and G. Doneddu², (1)*University of Cagliari*, (2)*A. O.B. (Azienda Ospedaliera Brotzu)*

12:10 **117.05**

Early Detection of Autism in Pre-Verbal Children (ADEC). G. Bradshaw, R. L. Young^{*}, P. Williamson and N. Brewer, *Flinders University*

Oral Presentations**118 Epidemiology**

10:30 AM - 12:30 PM - Northwest Hall Room 5

10:30 **118.00**

Prenatal Exposure to beta₂-Adrenergic Receptor Agonists and Risk of Autism Spectrum Disorders. L. Croen^{*1}, S. L. Connors², M. Matevia¹, C. Newschaffer³ and A. W. Zimmerman², (1)*Kaiser Permanente*, (2)*Kennedy Krieger Institute*, (3)*Drexel University School of Public Health*

10:50 **118.01**

Maternal Periconceptional Folic Acid Intake and Risk of Autism Spectrum Disorders in the CHARGE Study. R. J. Schmidt^{*}, R. L. Hansen and I. Hertz-Picciotto, *University of California at Davis*

11:10 **118.02**

Sickle Cell Disease and Autism Spectrum Disorders. A. W. Zimmerman^{*1}, L. C. Lee², J. Baio³, J. R. Keefer⁴, R. S. Kirby⁵, C. Newschaffer⁶, J. S. Nicholas⁷, M. Durkin⁸, W. Zahorodny⁹ and K. D. Smith¹, (1)*Kennedy Krieger Institute*, (2)*Johns Hopkins Univ. School of Public Health*, (3)*National Center on Birth Defects and Developmental Disabilities*, (4)*Johns Hopkins School of Medicine*, (5)*University of South Florida*, (6)*Drexel University School of Public Health*, (7)*Medical University of South Carolina*, (8)*University of Wisconsin-Madison*, (9)*University of Medicine and Dentistry of New Jersey*

11:30 **118.03**

A Clarification of the Association Between Parental Age and the Risk of Autism. J. F. Shelton^{*1}, D. J. Tancredi² and I. Hertz-Picciotto³, (1)*University of California, Davis*, (2)*UC Davis School of Medicine and Center for Healthcare Policy and Research*, (3)*University of California at Davis*

11:50 **118.04**

Factors Associated with Age of Diagnosis among Medicaid-Enrolled Children with Autism Spectrum Disorders in the United States. D. S. Mandell^{*1}, K. H. Morales¹, M. Xie¹, D. Polsky¹, A. Stahmer² and S. C. Marcus³, (1)*University of Pennsylvania School of Medicine*, (2)*Rady Children's Hospital*, (3)*University of Pennsylvania School of Social Policy and Practice*

12:10 **118.05**

Factors That Influence Age of Identification of Children with Autism and Pervasive Developmental Disorder-Not Otherwise Specified. C. R. Adelman^{*1} and S. U. Peters², (1)*University of Houston*, (2)*Baylor College of Medicine*

119 Innovative Technologies Demonstration Session

9:00 AM - 5:30 PM - Boulevard Room

Innovative Technologies for Understanding and Supporting Persons with Autism Spectrum Disorders: With kind support from the Autism Speaks' Innovative Technology for Autism (ITA) Initiative, this session will provide live demonstrations of a number of innovative technologies that, alone or in conjunction, can be used beneficially in a number of critical areas affecting individuals with ASD, their families, and professionals who strive to better understand and support them. Recent advancements in the areas of video and audio capture technology; computer architecture, hardware, and software; web-based data collection methods; on-body physical and physiological sensing; robotics; virtual reality; and more will be presented, illustrating how this technology can enhance and accelerate the pace of autism research and treatment by providing broader access to professional resources; reducing treatment costs; promoting interventions that increase generalizability of learned skills; and furthering research recruitment, implementation, and data collection and analysis.

T0 119.00

Social: a 3D-Virtual Learning Environment for Enhanced Social Interaction and Development of Social Competence. J. Stichter^{*1}, C. Schmidt¹ and M. Schmidt², (1)*Thompson Center for Autism and Neurodevelopmental Disabilities*, (2)*University of Missouri*

T1 119.01

Analysis of Automatically Generated Usage Data on 1,100 Children Using the TeachTown Basics Computer-Assisted Intervention Program. C. Whalen^{*1}, M. Vaupel¹, S. Cernich¹, K. MacDonald¹, P. Fielding² and E. Dashen¹, (1)*Jigsaw Learning*, (2)*Independent Consultant*

T2 119.02

Museum Hunt: a Computerized Eye-Tracking Game. F. Hurewitz^{*}, M. Brennan, E. Boucher and F. Lee, *Drexel University*

Program

- T3 119.03**
DeePAD: a Deep Pressure Touch Application Device Using Pneumatic Pressure. B. Mullen* and S. Krishnamurty, *University of Massachusetts-Amherst*
- T4 119.04**
Automated Detection of Stereotypical Motor Movements. M. S. Goodwin*¹, S. S. Intille¹, F. Albinali¹, W. F. Velicer² and J. Groden³, (1)*Massachusetts Institute of Technology*, (2)*University of Rhode Island*, (3)*The Groden Center, Inc.*
- T5 119.05**
Use of a Wearable Recording Device in Therapeutic Interventions for Children with Autism. G. Marcu*, D. H. Nguyen and G. R. Hayes, *University of California, Irvine*
- T6 119.06**
PDA Technology to Improve Self-Awareness in Teens with ASD. D. S. McLeod* and D. A. Lucci, *Massachusetts General Hospital*
- T7 119.07**
National Database for Autism Research (NDAR): Accelerating Scientific Discovery through Collaborative Bioinformatics. M. F. Huerta*, G. Navidi and D. Hall, *National Institute of Mental Health, National Institutes of Health*
- T8 119.08**
Demonstration of a Collaborative Interface to Promote Positive Social Interaction Skills by High and Low Functioning Children with Autistic Spectrum Disorder (ASD). M. Zancanaro¹, A. Battocchi*², N. Bauminger³, E. Gal⁴, A. Ben-Sasson⁴, F. Pianesi², D. Tomasini¹ and P. L. Weiss⁴, (1)*Bruno Kessler Foundation*, (2)*Fondazione Bruno Kessler*, (3)*Bar-Ilan University*, (4)*University of Haifa*
- T9 119.09**
Treating Speech Impairments in Autism with Delayed and Rewarding Feedback: Preliminary Investigation. Y. Bonne¹, O. Dean-Pardo² and J. F. Houde³, (1)*University of Haifa*, (2)*, (3)*University of California, San Francisco*
- T10 119.10**
Adaptive Robotic Techniques in Children with Autism: Strategies for Utilizing Physiological Data to Optimize Engagement during Computer-Based Interactions. K. C. Welch*, Z. Warren, C. Liu, N. Sarkar and W. Stone, *Vanderbilt University*
- T11 119.11**
Revising Reciprocity: Technology Tools for Creating Social Interactions. A. Tartaro* and J. Cassell, *Northwestern University*
- T12 119.12**
Automatic Retrieval of Mother-Infant Social Games from Unstructured Videos. P. Wang, G. D. Abowd*, J. M. Rehg and R. I. Arriaga, *Georgia Institute of Technology*
- T13 119.13**
FaceSay - Social Skills Games That Work. C. Wimsatt*, *Symbionica, LLC*
- T14 119.14**
A Touch-Screen Smartphone Application and An Online Community for the Improvement of the Communication of Children with Severe Autism and for the Support of Their Teachers and Therapists. G. De Leo*¹, C. Gonzalez², P. Battagiri¹ and G. Leroy², (1)*Old Dominion University*, (2)*Claremont Graduate University*
- T15 119.15**
Using Virtual Reality Enhanced Behavioral Skills Training to Teach Street Crossing Skills to Children and Adolescents with Autism Spectrum Disorders. T. R. Goldsmith*¹ and L. A. LeBlanc², (1)*Yale University*, (2)*Auburn University*
- T16 119.16**
Collectia Pilot: Supporting Data Collection in Special Education. A. Bozzorg*, V. Kantroo, A. Mansour, S. Pittman and G. D. Abowd, *Georgia Institute of Technology*
- T17 119.17**
An Extensible, Experimental Video Game for Autism Research and Therapy. M. K. Belmonte*, *Cornell University*
- T18 119.18**
Baby Steps: Evaluation of a Computing System to Support Parent Reporting of Early Childhood Development. J. A. Kientz¹, R. I. Arriaga*² and G. D. Abowd², (1)*University of Washington*, (2)*Georgia Institute of Technology*
- T19 119.19**
User-Centered Design of Technology for Just-in-Time, In-Situ Exploration of Facial Affect for Persons on the Autism Spectrum. M. Eckhardt*, M. Madsen, Y. Kashef, A. R. Nasser, M. E. Hoque, R. E. Kaliouby, M. S. Goodwin and R. W. Picard, *Massachusetts Institute of Technology*
- T20 119.20**
An Initial Investigation Using Augmented Toys and Statistical Models to Automatically Categorize Object Play Behaviors. T. L. Westeyn, T. E. Starner, G. D. Abowd*, R. I. Arriaga and P. W. Presti, *Georgia Institute of Technology*
- T21 119.21**
Cognitively Accessible Self-Management: Picture Planner Icon-Based Personal Organizer. T. Keating*, *Eugene Research Institute*
- T22 119.22**
Using Computer Software to Address Emotion Recognition and Social Skills. P. G. LaCava*, *University of Kansas*
- T23 119.23**
Automated Acoustic Analysis of Affective and Pragmatic Prosody in ASD. E. T. Prud'hommeaux*, J. P. H. van Santen and L. M. Black, *Oregon Health & Science University*
- T24 119.24**
Automated Identification of Stress and Focus Assignment. E. T. Prud'hommeaux*, J. P. H. van Santen and L. M. Black, *Oregon Health & Science University*
- T25 119.25**
Using a Behavioral Imaging Platform to Develop a Naturalistic Observational Diagnostic Assessment for Autism. C. J. Smith*¹, S. E. Ober-Reynolds¹, K. Treulich¹, R. McIntosh¹ and R. Melmed², (1)*Southwest Autism Research & Resource Center*, (2)*Southwest Autism Research Center and Melmed Center*
- T26 119.26**
Toward Designing Interactive Technologies for Supporting Research in Autism Spectrum Disorders. D. Feil-Seifer*, M. P. Black, M. J. Mataric and S. Narayanan, *University of Southern California*
- T27 119.27**
Interactive and Collaborative Classroom Visual Schedules. M. Yeganyan*, S. H. Hirano, D. H. Nguyen and G. R. Hayes, *University of California, Irvine*
- T28 119.28**
Rich Spontaneous, Social Engagement with a Dinosaur Robot. E. S. Kim*¹, D. Leyzberg¹, E. Short¹, R. Paul² and B. Scassellati¹, (1)*Yale University*, (2)*Yale University School of Medicine*
- T29 119.29**
Inferences on Cognition in Nonverbal Children Via Real-Time Analysis of Eye Gaze. J. Munson*, *University of Washington*

120 Poster III

9:00 AM - 1:00 PM - Northwest Hall

Family

- 11:00 **1 120.01**
Parent and Child Factors Associated with Sleep Problems in Pervasive Developmental Disorders, Down Syndrome and Intellectual Disability. A. Richdale*¹ and A. Robinson², (1)*La Trobe University*, (2)*Austin Health*
- 12:00 **3 120.03**
Study of Parental Perception of Symptoms and Satisfaction with Disclosure of the Diagnosis of An Autism Spectrum Disorder. T. Miyachi*¹, M. Kamiya¹, Y. Yoshihashi¹ and M. Tsujii², (1)*Osaka-Hamamatsu Joint Center for Child Mental Development*, (2)*Chukyo university*
- 10:00 **4 120.04**
Use of Complementary and Alternative Medicine in Children with Autism: Associations with Ethnicity, Child Co-Morbid Symptoms and Parental Stress. M. D. Valicenti-McDermott, L. Bernstein, B. M. Burrows, K. Lawson, M. Schechtman, R. Seijo, L. H. Shulman* and S. Shinnar, *Albert Einstein College of Medicine*
- 11:00 **5 120.05**
The Relation Between Family Resources, Child Severity, and Parenting Stress in Parents of Young Children with Autism. G. A. Levine*, J. H. Foss-Feig and W. Stone, *Vanderbilt University*
- 12:00 **6 120.06**
Parent-Child Interaction and Global Assessment of Functioning: Measuring Change and Outcome in Adolescents with Autism. J. A. Hobson*¹, R. P. Hobson¹ and S. Gutstein², (1)*Institute of Child Health, UCL*, (2)*The Connections Center*
- 10:00 **7 120.07**
The Transition out of High School for Individuals with Autism Spectrum Disorders and Their Mothers: The Role of Age at Exit. J. L. Taylor*¹ and M. M. Seltzer², (1)*Vanderbilt Kennedy Center*, (2)*Waisman Center, University of Wisconsin-Madison*

Longitudinal/Epidemiology

- 11:00 **8 120.08**
Imitation Skills Predict Subsequent Language Gains in Children with Autism. N. Crane*¹, M. Siller¹, M. Sigman² and T. Hutman², (1)*Hunter College of the City University of New York*, (2)*University of California, Los Angeles*
- 12:00 **9 120.09**
Longitudinal Rasch Analysis of Imitation in Infants at Risk for Autism. G. S. Young*¹, S. J. Rogers², M. Sigman³, T. Hutman², W. Mattson², J. Martinez² and S. Ozonoff¹, (1)*M.I.N.D. Institute, University of California at Davis Medical Center*, (2)*M.I.N.D. Institute, University of California at Davis*, (3)*University of California, Los Angeles*

Clinical Phenotype/Developmental Stages

- 12:00 **10 120.10**
Does Family Affectedness Predict Outcomes in Infants at Risk for Autism? A. J. Schwichtenberg*¹, S. Ozonoff¹, S. J. Rogers², M. B. Steinfeld¹, G. S. Young¹ and M. Moore¹, (1)*M.I.N.D. Institute, University of California at Davis Medical Center*, (2)*M.I.N.D. Institute, University of California at Davis*

- 10:00 **11 120.11**
Patterns of Changes in Development in Children with Autism Compared to Typically Developing Children. L. D. Swensen¹, D. Fein² and L. Naigles*², (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*University of Connecticut*
- 11:00 **12 120.12**
Outcomes in Young Children with Autism and Developmental Delay: Behaviour and Emotional Problems and Autism Symptomatology. K. M. Gray*¹, B. J. Tonge¹, D. J. Sweeney¹ and S. Einfeld², (1)*Monash University*, (2)*University of Sydney*
- 12:00 **13 120.13**
Social and Communicative Deficits in the First Year of Life: Prediction of Later Diagnosis. S. Schjolberg*, *Norwegian Institute of Public Health*
- 10:00 **14 120.14**
Academic Outcomes of Youth with Autism. J. Kurth*¹ and A. M. Mastergeorge², (1)*Northern Arizona University*, (2)*M.I.N.D. Institute, University of California at Davis*
- 11:00 **15 120.15**
The Effect of Age and IQ on the Acquisition of Adaptive Skills in Girls with Autism. K. A. Loveland*¹, D. A. Pearson¹ and T. CPEA/STAART Girls with Autism Study Group², (1)*University of Texas Medical School at Houston*, (2)*N/a*
- 12:00 **16 120.16**
Environmental Pollutants and Markers of Autoimmunity as Risk Factors for Autism Spectrum Disorders in California's Central Valley. K. Cheslack-Postava*¹, J. K. Grether², E. Roberts², G. C. Windham² and C. Newschaffer³, (1)*Columbia University*, (2)*California Department of Public Health*, (3)*Drexel University School of Public Health*

Genetics

- 10:00 **17 120.17**
Chemicals That Interact with Autism Gene Candidates. M. A. Corrales*, *US Environmental Protection Agency*
- 11:00 **18 120.18**
Impact of Family History of Depression on Cognitive Ability and Symptom Severity in Autism. R. A. Barry* and E. M. Griffith, *University of Alabama at Birmingham*
- 12:00 **20 120.20**
Pro- and Anti- Saccade Abnormalities in First-Degree Relatives of Individuals with Autism. M. W. Mosconi*, A. M. D'Cruz, M. Kay, L. Ankeny, L. D. Stanford and J. A. Sweeney, *University of Illinois at Chicago*
- 10:00 **21 120.21**
Procedural Learning Abnormalities in First-Degree Relatives of Individuals with Autism. M. W. Mosconi*, K. Kapur, A. M. D'Cruz, L. Ankeny, M. Kay, L. D. Stanford and J. A. Sweeney, *University of Illinois at Chicago*
- 11:00 **22 120.22**
Linguistic Markers of Genetic Liability to Autism. M. Losh* and P. C. Gordon, *University of North Carolina at Chapel Hill*
- 12:00 **23 120.23**
A Behavioral Genetics Study of Autism, NJLAGS. Z. Fermano*¹, J. Flax¹, B. Zimmerman-Bier² and L. Brzustowicz¹, (1)*Rutgers University*, (2)*UMDNJ - New Jersey Medical School*
- 10:00 **24 120.24**
Birth Order Effects in Multiplex Autism Families. L. Waldenmaier*¹, S. Foley¹, I. Rezek², K. Wittmeyer¹, H. L. Hayward³, S. Wallace¹, J. Parr⁴ and A. Bailey¹, (1)*University of Oxford*, (2)*Imperial College London*, (3)*University of Oxford*, (4)*Great Ormond Street Hospital*

Program

- 12:00 **26 120.26**
Agreement Between ADI-R and ADOS in a Twin Sample. N. Gillan^{*1}, E. Woodcock¹, V. J. Hallett¹, C. Ames¹, E. Colvert¹, F. Happé¹ and P. Bolton², (1)*Institute of Psychiatry, KCL*, (2)*Institute of Psychiatry*
- 10:00 **27 120.27**
A Twin Study of Gesture Execution, Imitation, and Identification. J. L. Stevenson^{*}, N. A. Krause, E. K. Schweigert, H. H. Goldsmith and M. A. Gernsbacher, *University of Wisconsin-Madison*
- 11:00 **28 120.28**
Gender Effects in Autism Spectrum Disorders: Symptom and Intelligence Differences in a Population-Based Twin Study. K. Dworzynski^{*1}, F. Happé² and A. Ronald³, (1)*Institute of Psychiatry, King's College London*, (2)*Institute of Psychiatry, KCL*, (3)*Birkbeck College, University of London*
- 12:00 **29 120.29**
Eye Color as a Potential Clinical Phenotype of ASD. C. J. Ferretti^{*1}, J. Pinto-Martin², M. C. Souders² and S. E. Levy¹, (1)*Children's Hospital of Philadelphia*, (2)*University of Pennsylvania*
- 10:00 **30 120.30**
Differences in Clinical Presentation of Trisomy 21 with and without Autism. C. A. Molloy^{*1}, D. S. Murray¹, A. Kinsman², H. Castillo¹, T. Mitchell¹, F. Hickey¹ and B. Patterson¹, (1)*Cincinnati Children's Hospital Medical Center*, (2)*Greenville Hospital System Children's Hospital*
- 11:00 **31 120.31**
The Role of FMR1 in Pragmatic Language Impairments Associated with Autism and the Broad Autism Phenotype. J. Klusek^{*1} and M. Losh², (1)*University of North Carolina*, (2)*University of North Carolina at Chapel Hill*
- 12:00 **32 120.32**
Amygdala Function in a Known Genetic Cause of Autism. E. Ballinger^{*1}, L. Cordeiro², J. Yuhás¹ and D. Hess², (1)*University of California, Davis*, (2)*M.I.N.D. Institute, University of California at Davis Medical Center*
- 10:00 **33 120.33**
A 2.2Mb 1q42.2 Microduplication Including DISC1 in 2 Brothers with Autism and Mild Mental Retardation. A. Crepel¹, J. Breckpot¹, J. P. Fryns¹, J. Steyaert², K. Devriendt¹ and H. Peeters^{*1}, (1)*Center for Human Genetics, University of Leuven*, (2)*UPC-K.U.Leuven*
- 11:00 **34 120.34**
FOXC1 Is Required for Normal Cerebellar Development and Is a Major Contributor to Chromosome 6p25.3 Dandy-Walker Malformation. K. A. Aldinger^{*}, W. B. Dobyns and K. J. Millen, *University of Chicago*
- 12:00 **35 120.35**
Chromosomal Anomalies in a Portuguese "Idiopathic" Autism Sample. F. Duque^{*1}, J. Almeida¹, R. L. Abreu¹, E. Matoso², I. Carreira², A. Vicente³ and G. Oliveira¹, (1)*Hospital Pediátrico de Coimbra*, (2)*Universidade de Coimbra*, (3)*Instituto Gulbenkian de Ciência/Instituto Nacional de Saúde Dr. Ricardo Jorge*
- 10:00 **36 120.36**
Autism Genetic Database (AGD): a Comprehensive Database Including Autism Susceptibility Gene-CNVs Integrated with Known Noncoding RNAs and Fragile Sites. Z. Talebizadeh^{*1}, G. Matuszek² and R. Aldenderfer¹, (1)*Children's Mercy Hospital and University of Missouri-Kansas City*, (2)*University of Kansas*
- 11:00 **37 120.37**
Novel Copy Number Variation in Autism. S. Lund^{*1}, D. Pinto², E. L. Crawford¹, C. Marshall³, S. Thomson¹, B. Yaspan¹, O. Veatch¹, S. W. Scherer² and J. Sutcliffe¹, (1)*Vanderbilt University*, (2)*The Hospital for Sick Children*, (3)*Hospital for Sick Children*
- 12:00 **38 120.38**
Microdeletions and Microduplications at 15q11.2 in Autism Spectrum Disorder in a Costa Rican Cohort. G. Cai^{*1}, L. Ospina¹, P. Jiménez², O. Bozdagi¹, J. G. Reichert¹, L. A. McInnes¹, T. Sakurai¹ and J. D. Buxbaum¹, (1)*Mount Sinai School of Medicine*, (2)*Hospital Nacional de Niños*
- 12:00 **40 120.40**
A High Resolution CNV Survey of the GABA Gene Family and Additional Autism Candidate Genes. D. J. Hedges^{*1}, H. N. Cukier¹, D. Q. MA¹, J. M. Jaworski¹, P. L. Whitehead¹, H. H. Wright², R. K. Abramson², S. E. Echandia³, Z. M. Kozhekbaeva³, L. Nathanson³, J. P. Hussman⁴, J. Haines⁵, M. L. Cuccaro¹, J. R. Gilbert¹ and M. A. Pericak-Vance¹, (1)*University of Miami Miller School of Medicine*, (2)*University of South Carolina School of Medicine*, (3)*University of Miami*, (4)*Hussman Foundation*, (5)*Vanderbilt University*
- 10:00 **41 120.41**
Feasibility for Detecting Epigenetic Abnormalities in Autism Brain. R. Person^{*}, S. Kim, X. Zhang, Y. H. Jiang, R. Chen, Y. Li, W. Li and A. Beaudet, *Baylor College of Medicine*
- 11:00 **42 120.42**
Global Methylation Profiling of Lymphoblastoid Cell Lines Reveals Epigenetic Contributions to Autism Spectrum Disorders. A. Nguyen^{*1}, C. House¹, T. Rauch², G. Pfeifer³ and V. W. Hu¹, (1)*The George Washington University Medical Center*, (2)*Rush University Medical Center*, (3)*City of Hope*
- 12:00 **43 120.43**
Investigation of Post-Transcriptional Gene Regulatory Networks Associated with Autism Spectrum Disorders by MicroRNA Expression Profiling Using Lymphoblastoid Cell Lines. T. Sarachana^{*1}, R. Zhou², G. Chen², H. Manji² and V. W. Hu¹, (1)*The George Washington University Medical Center*, (2)*National Institutes of Health*
- 10:00 **44 120.44**
Cytokine Polymorphisms and Their Potential Role in Autism. M. C. Mott^{*}, M. F. Casanova, G. R. Fernandez-Botran, L. Sears, C. R. Tillquist and F. A. Crespo, *University of Louisville*
- 11:00 **45 120.45**
Brain Derived Neurotrophic Factor (BDNF) in Serum of Children with PDDs and Their Parents. K. Francis^{*}, A. Dougali, K. Sideri, K. Dimas and E. Lykouras, *Athens University*
- 12:00 **46 120.46**
Association of Oxytocin Receptor Gene Variants with Social Phenotypes of Autism Spectrum Disorder. D. B. Campbell^{*}, D. Datta, S. T. Jones, E. B. Lee, J. Sutcliffe and P. Levitt, *Vanderbilt University*
- 10:00 **47 120.47**
Examination of the AVPR1a Microsatellites in Relation to Human Promoter Activity. K. Tansey^{*}, M. J. Hill, L. E. Cochran, R. J. Anney, M. Gill and L. Gallagher, *Trinity College Dublin*
- 11:00 **48 120.48**
Association Study of Neurexin 1 and Neuroligin 3 & 4 Genes with French Autistic Patients. F. Laaghouti¹, P. Gorwood¹, B. Golsé², L. Robel² and N. Ramoz^{*1}, (1)*INSERM*, (2)*AP-HP*

- 12:00 **49 120.49**
Mutant Forms of PTEN Associated with Autism. R. E. Redfern¹, M. C. Daou², A. Gericke¹ and A. H. Ross^{*2}, (1)*Kent State University*, (2)*University of Massachusetts Medical School*
- 12:00 **50 120.50**
PRKCB1 Gene Variants Influence Stereotypic Behaviors in Autism-Spectrum Disorders. R. Sacco¹, F. Rousseau², J. Hager², P. Curatolo³, B. Manzi³, R. Militerni⁴, C. Bravaccio⁵, C. Lenti⁶, M. Saccani⁶, S. Puglisi-Allegra³, T. Pascucci³, K. L. Reichelt⁷ and A. M. Persico^{*1}, (1)*Univ. Campus Bio-Medico*, (2)*IntegraGen*, (3)*Univ. of Rome*, (4)*Univ. of Naples*, (5)*Univ.*, (6)*Univ. of Milan*, (7)*Rikshospitalet/Univ. of Oslo*
- 10:00 **51 120.51**
A Case-Control Association Study of Tic/Stereotypic Movement Phenotypes in a Missouri Twin Sample and Polymorphisms in the Dopaminergic and Nicotinic Acetylcholine Receptor Genes. L. Albores-Gallo^{*}, A. Reiersen and R. Neuman, *Washington University at St. Louis Missouri*
- 11:00 **52 120.52**
Whole Genome Association Studies in Autistic Spectrum Disorders Revisited: a Support Vector Machine Approach. P. Johnston^{*1}, D. R. Hardoon², C. Ecker¹, T. K. Clarke¹, E. Daly³, J. Powell⁴, D. Murphy¹ and M. R. C. AIMS Consortium⁴, (1)*King's College London, Institute of Psychiatry*, (2)*University College London*, (3)*Institute of Psychiatry, King's College London*, (4)*Institute of Psychiatry*
- 12:00 **53 120.53**
Family-Based Association Study of the X Chromosome Reveals ASD Genes. E. R. Martin^{*1}, R. H. Chung¹, D. Q. MA¹, J. M. Jaworski¹, J. R. Gilbert¹, D. J. Hedges¹, J. Hoffman¹, A. N. Andersen¹, I. Konidari¹, R. K. Abramson², H. H. Wright², J. Haines³, M. L. Cuccaro¹ and M. A. Pericak-Vance¹, (1)*University of Miami Miller School of Medicine*, (2)*University of South Carolina School of Medicine*, (3)*Vanderbilt University*
- 10:00 **54 120.54**
Molecular Investigation of An Autism Risk Association Region on Chromosome 5p14.1. A. J. Griswold^{*1}, H. N. Cukier², P. L. Whitehead², I. Konidari², W. Hulme¹, D. Q. MA², J. M. Jaworski², D. Salyakina¹, L. Wang¹, D. J. Hedges², J. Haines³, J. R. Gilbert² and M. A. Pericak-Vance², (1)*Miami Institute for Human Genomics*, (2)*University of Miami Miller School of Medicine*, (3)*Vanderbilt University*
- 11:00 **55 120.55**
Deficiency of Engrailed 2 (En2), the Autism Spectrum Disorder (ASD) Associated Gene, Produces Abnormal Development of Forebrain-Projecting, Monoamine Neurotransmitters Systems. L. Lin^{*1}, P. Sonsalla¹, S. Kamdar², J. H. Millonig² and E. DiCiccio-Bloom¹, (1)*Robert Wood Johnson Medical School*, (2)*UMDNJ-Robert Wood Johnson Medical School*
- 12:00 **56 120.56**
Ancestry and Association Analysis of the AGRE Autism Families. B. Yaspan^{*}, J. Haines and J. Sutcliffe, *Vanderbilt University*
- 10:00 **57 120.57**
New Linkage Analysis by the Autism Genome Project (AGP) Reveals Strong Evidence of Linkage to Multiple Loci as Well as Gene-Gene Interactions. J. Hallmayer^{*}, *Stanford University*
- 11:00 **58 120.58**
A Pathway-Based Approach to Association Analysis in Autism. C. Hicks^{*}, A. Tchourbanov, G. Steinhardt, R. Asfour and J. Del Greco, *Loyola University Medical Center*
- 12:00 **59 120.59**
Identification of Genetic Variation in Autism Using Multiplexed Massively Parallel Sequencing. A. Sekar^{*}, J. Long, A. Kurdoglu, M. Redman, S. Walker, T. Laub, J. Corneveaux, M. Huentelman and D. W. Craig, *The Translational Genomics Research Institute*
- 12:00 **60 120.60**
Identifying Loci for the Overlap Between ADHD and PDD Using a Genome-Wide QTL Linkage Approach. J. S. Nijmeijer^{*1}, A. Arias-Vásquez², M. E. Altink², J. K. Buitelaar³, C. J. M. Buschgens², S. V. Faraone⁴, E. A. Fliers², B. Franke², R. B. Minderaa⁵, N. N. J. Rommelse⁶, C. A. Hartman¹ and P. J. Hoekstra⁵, (1)*University of Groningen and University Medical Center Groningen*, (2)*Radboud University Nijmegen Medical Centre*, (3)*Radboud University Nijmegen Medical Centre, Nijmegen Centre for Evidence-Based Practice*, (4)*SUNY Upstate Medical University*, (5)*University Medical Center Groningen*, (6)*Karakter Child and Adolescent Psychiatry University Center*
- 10:00 **61 120.61**
Genetic and Expression Analyses of Serotonergic Factors in Autism. K. Nakamura^{*1}, T. Miyachi², A. Ayyappan¹, M. Tsujii³, S. Suda¹, I. Thanseem¹, K. Tsuchiya¹, H. Matsuzaki², K. Yamada⁴, Y. Iwayama⁴, T. Toyota⁴, E. Hattori⁴, T. Sugiyama⁵, N. Takei¹, T. Yoshikawa⁶ and N. Mori¹, (1)*Hamamatsu University School of Medicine*, (2)*The Osaka-Hamamatsu Joint Reserach Center for Child Mental Development, Hamamatsu University School of Medicine*, (3)*Chukyo university*, (4)*RIKEN Brain Science Institute*, (5)*Aichi Children's Health and Medical Center*
- 11:00 **62 120.62**
Is a Functional Serotonin Transporter Polymorphism Linked to the Core Symptoms of Autism or Comorbid Psychopathology?. E. Duketis^{*1}, F. Poustka¹, G. Pakalapati², A. Benner², C. M. Freitag¹ and S. M. Klauck², (1)*Johann Wolfgang Goethe-University*, (2)*German Cancer Research Center (DKFZ)*
- 12:00 **63 120.63**
MAOA, D H and 5-HTT Variants and Autism Spectrum Disorders in the CHARGE Samples. F. Tassone¹, L. Qi^{*1}, W. Zhang¹, R. L. Hansen², I. Hertz-Picciotto² and I. N. Pessah³, (1)*UC Davis*, (2)*University of California at Davis*, (3)*M.I.N.D. Institute, University of California at Davis, CCEH*
- 10:00 **64 120.64**
Serotonin Transporter Gene Polymorphisms and Processing of Fearful Faces in Autism. E. Daly^{*1}, P. Johnston², Q. Deeley¹, L. Pugliese², B. Hallahan¹ and D. Murphy², (1)*Institute of Psychiatry, King's College London*, (2)*King's College London, Institute of Psychiatry*
- 11:00 **65 120.65**
Investigating the Relation Between Serotonin (5-HT) and Insistence on Sameness in Autism Spectrum Disorders Using Genetic and Biological Markers. S. J. Guter^{*1}, C. W. Brune¹, G. M. Anderson², J. Sutcliffe³, E. L. Crawford³, J. J. McElroy³ and E. H. Cook¹, (1)*University of Illinois at Chicago*, (2)*Yale University School of Medicine*, (3)*Vanderbilt University*
- 12:00 **66 120.66**
A Pharmacogenetic Study of Escitalopram in Autism. T. Owley^{*}, C. Brune, J. Salt, L. Walton, S. J. Guter, N. Ayuyao, R. Gibbons, B. Leventhal and E. H. Cook, *University of Illinois at Chicago*

Program

10:00 **67 120.67**

An Association Between a Functional Variant of the MET Gene and the Presence of Maternal Anti-Fetal Brain Antibodies. L. S. Heuer^{*1}, D. Braunschweig¹, R. Boyce², P. Levitt³, D. B. Campbell³ and J. Van de Water², (1)University of California, Davis, (2)University of California at Davis, (3)Vanderbilt University

11:00 **68 120.68**

Phenotypic Consequences of Misregulation of Human Chromosome 15-Associated Autism Candidate Genes in Mouse. L. Herzog^{*}, K. Kugle, M. Yasvoina, S. Zeng and K. Varga, *Northwestern University Feinberg School of Medicine*

12:00 **69 120.69**

Polymorphism in the DBH Promoter Region Shown to Exert Cell-Specific Effect on Transcription. L. E. Cochrane^{*}, M. J. Hill, K. Tansley, R. J. Anney, M. Gill and L. Gallagher, *Trinity College Dublin*

Neuropathology/Cell Models

12:00 **70 120.70**

Increased Lipid Peroxidation in Cerebellum and Temporal Cortex in Autism. A. Chauhan^{*1}, B. Muthaiyah¹, M. M. Essa¹, W. T. Brown², J. Wegiel² and V. Chauhan¹, (1)NYS Institute for Basic Research in Developmental Disabilities, (2)New York State Institute for Basic Research in Developmental Disabilities

10:00 **71 120.71**

Increased Oxidative Damage in Lymphoblasts from Autism: Enhanced Free Radical Generation Coupled with Reduced Antioxidant Status. M. M. Essa^{*1}, B. Muthaiyah¹, V. Chauhan¹, W. T. Brown² and A. Chauhan¹, (1)NYS Institute for Basic Research in Developmental Disabilities, (2)New York State Institute for Basic Research in Developmental Disabilities

11:00 **72 120.72**

Sera from Children with Autism Alter Proliferation of Human Neuronal Progenitor Cells Exposed to Oxidation. B. Mazur-Kolecka^{*1}, I. L. Cohen¹, E. C. Jenkins¹, M. J. Flory², W. T. Brown² and J. Frackowiak¹, (1)NYS Institute for Basic Research in Developmental Disabilities, (2)New York State Institute for Basic Research in Developmental Disabilities

12:00 **73 120.73**

Monocyte Cytokine Responses to TLR Ligands in Children with ASD. A. M. Enstrom^{*1}, J. Van de Water², I. N. Pessah³ and P. Ashwood¹, (1)M.I.N.D. Institute, University of California at Davis, (2)University of California at Davis, (3)M.I.N.D. Institute, University of California at Davis, CCEH

Animal Models

10:00 **74 120.74**

Early Behavioral Intervention with Juvenile C57BL/6J Cagemates Improves Sociability in the BTBR Mouse Model of Autism. M. Yang^{*}, M. Weber, K. Perry and J. N. Crawley, *National Institute of Mental Health, National Institutes of Health*

11:00 **75 120.75**

Behavioral Effects of Acute Administration of Risperidone and MPEP in the BTBR Mouse Model of Autism. J. L. Silverman^{*}, C. L. Barkan, S. S. Tolu and J. N. Crawley, *National Institute of Mental Health, National Institutes of Health*

12:00 **76 120.76**

Comprehensive Behavioral Phenotyping of BDNF-Overexpressing Transgenic Mice. C. L. Barkan^{*}, J. L. Silverman, S. S. Tolu and J. N. Crawley, *National Institute of Mental Health, National Institutes of Health*

10:00 **77 120.77**

Mouse Ultrasonic Vocalization Analyses to Model Communication Deficits in Autism. M. Wöhr^{*1}, M. Yang¹, F. I. Rouillet¹ and J. N. Crawley², (1)Laboratory of Behavioral Neuroscience, National Institute of Mental Health, USA, (2)National Institute of Mental Health, National Institutes of Health

11:00 **78 120.78**

Epigenetic Interaction Between Mecp2 and Organic Pollutants in Murine Development. R. O. Vallero^{*1}, J. K. Suarez¹, R. Woods¹, T. A. Ta¹, M. S. Golub², R. Berman¹, I. N. Pessah³ and J. M. LaSalle¹, (1)UC Davis School of Medicine, (2)UC Davis, (3)M.I.N.D. Institute, University of California at Davis, CCEH

12:00 **79 120.79**

Autistic-Like Behaviors in GAP-43 Deficient Mouse That Displays Disordered Connectivity and Autism-Related Gene Expression. K. J. Zaccaria^{*1}, D. C. Lagace², E. A. Kelly³, A. J. Eisch⁴ and J. S. McCasland¹, (1)SUNY Upstate Medical University, (2)University of Ottawa, (3)University of Rochester SMD, (4)University of Texas Southwestern Medical Center

12:00 **80 120.80**

Fine-Tuning the Mouse Forebrain by HGF/SF-Met Signaling. G. J. Martins^{*}, E. A. Leumas and E. M. Powell, *University of Maryland School of Medicine*

10:00 **81 120.81**

Reduced Excitability of Intrinsic Neuronal Properties during Development of the Medial Prefrontal Cortex in a Rodent Autism Model. E. C. Walcott^{*} and N. S. Desai, *The Neurosciences Institute*

11:00 **82 120.82**

The Role of Neurotensin in An Animal Model of Self-Injurious Behavior. A. M. Van Matre^{*}, S. Wolfman and D. P. Devine, *University of Florida*

12:00 **83 120.83**

Maternal Immune Activation during Pregnancy Alters Development of T Helper Cell Subsets of Offspring in Prenatal Models of Autism. M. Mandal^{*1}, A. Marzouk², G. Yehia², R. Donnelly² and N. M. Ponzio³, (1)UMDNJ - Graduate School of Biomedical Sciences, (2)UMDNJ - New Jersey Medical School, (3)UMDNJ - New Jersey Medical School & Graduate School of Biomedical Sciences

10:00 **84 120.84**

Maternal Viral Infection Alters the Social and Anxiety-Like Behaviour of the Offspring. L. A. Wollaston^{*}, G. Hall and J. A. Foster, *McMaster University*

11:00 **85 120.85**

Characterization of Maternal Plasma Antibodies to Fetal Brain in Autism. D. Braunschweig^{*1}, R. Boyce¹, P. Ashwood² and J. Van de Water¹, (1)University of California at Davis, (2)M.I.N.D. Institute, University of California at Davis

Medical

12:00 **86 120.86**

CD40L, a Marker of Systemic Inflammation Is Increased in Patients with Autism. C. A. Pardo^{*1}, H. Khan¹, L. C. Lee², S. J. Spence³, A. Thurm⁴ and S. E. Swedo⁴, (1)Johns Hopkins University School of Medicine, (2)Johns Hopkins Univ. School of Public Health, (3)NIH, (4)National Institute of Mental Health, National Institutes of Health

- 11:00 **88 120.88**
Is Lead a Concern in Autistic Children?. B. G. Clark* and I. Buka,
University of Alberta
- 12:00 **89 120.89**
Increasing Blood Draw Compliance in Children with ASD. E.
Hanson, C. Davit and R. Hundley, *Children's Hospital*
- 12:00 **90 120.90**
Measuring the Effects of Therapeutic Horseback Riding in Children
with Autism Spectrum Disorders. R. Gabriels*¹, J. A. Agnew¹, G.
H. Clayton¹, Z. Pan¹, K. Holt¹, S. Ruzzano¹, H. Bosler¹, R. Howard¹
and G. Mesibov², (1)*The Children's Hospital/University of Colorado*
Health Sciences Center, (2)*University of North Carolina at Chapel*
Hill
- 10:00 **91 120.91**
Reduction in Salivary Cortisol Following Physical Exercise and
Relaxation among Adolescents and Young Adults on the Autism
Spectrum. A. Hillier* and D. Murphy, *University of Massachusetts*
Lowell
- Diagnosis/Comorbidity*
- 11:00 **92 120.92**
Adolescents with Asperger's Syndrome Impaired in Several
Domains of Executive Function as Measured by the Behavior
Rating Inventory of Executive Function. T. Oswald*, M. A. Winter-
Messiers and L. Moses, *University of Oregon*
- 12:00 **93 120.93**
Autistic Traits and Sociometric Assessment: a Pilot Study. M. O.
Mazurek*¹ and S. M. Kanne², (1)*Thompson Center for Autism and*
Neurodevelopmental Disorders, (2)*University of Missouri*
- 10:00 **94 120.94**
Social Responsiveness Scale: Standardization and Validation of the
Dutch Adult Version. W. De la Marche*¹, J. Steyaert¹, E. M. Scholte²,
M. H. Dorst³, I. A. van Berckelaer-Onnes² and I. L. J. Noens⁴,
(1)*UPC-K.U.Leuven*, (2)*Leiden University*, (3)*Universiteit Leiden*,
(4)*Katholieke Universiteit Leuven*
- 11:00 **95 120.95**
Adaptive Behavior and Cognitive Skills for Young Children on the
Autism Spectrum: An Examination of the Updated Vineland-II and
Bayley-III. C. E. Ray-Subramanian*¹, N. Huai¹, S. Ellis-Weismer² and
M. A. Gernsbacher², (1)*Waisman Center, University of Wisconsin-*
Madison, (2)*University of Wisconsin-Madison*
- 12:00 **96 120.96**
The Broader Autism Phenotype in Italy. A Research Study Using the
Autism-Spectrum Quotient - Italian Version. L. Ruta*¹, L. Mazzone¹,
N. Russo¹, V. Mannino¹, S. J. Wheelwright² and S. Baron-Cohen²,
(1)*University of Catania, Italy*, (2)*University of Cambridge*
- 10:00 **97 120.97**
Sensory Sensitivities and the Autism Spectrum Quotient. A. E.
Robertson* and D. R. Simmons, *University of Glasgow*
- 11:00 **98 120.98**
The Hebrew Version of the Autism Spectrum Quotient (AQ-Heb)
as a Screening Instrument for Adults with Autism Spectrum
Conditions. O. Golan*, R. Gold and S. Fridenzon, *Bar-Ilan University*
- 12:00 **99 120.99**
Psychiatric Comorbidities in Patients with Asperger Syndrome and
High Functioning Autism: Clinical and Treatment Implications. M. C.
Porfirio, G. Giana*, B. Manzi, S. Benedetti, A. Benvenuto, F. Caretto
and P. Curatolo, *Tor Vergata University*
- 12:00 **100 120.100**
A Comparison of Maternal and Paternal BASC Scores for
Individuals with ASD. M. Hale, H. Bryant*, A. Beaumont, J. Durocher,
A. Gutierrez and M. Alessandri, *University of Miami*
- 10:00 **101 120.101**
Personality Disorder Assessment in the Differential Diagnosis of
Autism Spectrum Disorders in Adults. C. H. Morton*, A. C. Ruocco,
M. A. Shanahan, M. Voss and L. D. Stanford, *University of Illinois at*
Chicago
- 11:00 **102 120.102**
Differential Diagnosis of ASD Subtypes and ASD v. Nonspectrum
Disorders in a Clinic-Referred Sample: Application of Two
Diagnostic Approaches. A. N. Esler* and R. K. Rumsey, *University of*
Minnesota
- 12:00 **103 120.103**
Autism and Anxiety: Incorporating Self Reports in Evaluating
Whether Anxiety Is Elevated in Children and Adolescents with
Autism Spectrum Conditions. K. D. Oden*¹, M. K. Vendlinski¹, B. A.
Vlach¹, M. A. Gernsbacher² and H. H. Goldsmith², (1)*The University*
of Wisconsin-Madison, (2)*University of Wisconsin-Madison*
- 10:00 **104 120.104**
Differential Diagnosis and Comorbidity of Autism and
Schizophrenia Spectrum Disorders. R. Loftin, M. Huerta and J.
Gorski*, *University of Illinois at Chicago*
- 11:00 **105 120.105**
Shared Social Deficits in Autism Spectrum Disorders, First Episode
Schizophrenia and Ultra High Risk for Psychosis Patients. E.
Olsen*¹, M. Solomon², M. Minzenberg¹, J. D. Ragland¹, S. Ursu¹,
J. H. Yoon², T. A. Niendam¹ and C. S. Carter², (1)*Imaging Research*
Center, (2)*MIND Institute, Imaging Research Center*
- 12:00 **106 120.106**
Are Social Deficits Content Dependent? Wason Selection Task
Performance in ASD and Schizophrenia. R. J. Sullivan¹, M.
Solomon*², M. Minzenberg³, J. D. Ragland³, J. H. Yoon², S. Ursu³, E.
Ermer⁴ and C. S. Carter², (1)*California State University, Sacramento*,
(2)*MIND Institute, Imaging Research Center*, (3)*Imaging Research*
Center, (4)*Mind Research Network*
- 10:00 **107 120.107**
Creating the Digital Melting Pot: Lessons from a Web-Based
National Autism Registry and Research Project. A. R. Marvin*, K.
Law and P. Law, *Kennedy Krieger Institute*
- Toddler/Preschool*
- 11:00 **108 120.108**
Vocalizations in Autism Spectrum Disorders Between 18 and 24
Months. A. M. Plumb*¹, A. M. Wetherby² and S. Randall², (1)*Auburn*
University, (2)*Florida State University*
- 12:00 **109 120.109**
Relationship Between Atypical Sensory Behaviors and Socialization
in Toddlers with Autism Spectrum Disorders. R. S. Oti*¹, D.
Tracy¹, W. Guthrie² and C. Lord², (1)*University of Michigan Autism*
& Communication Disorders Center (UMACC), (2)*University of*
Michigan
- 12:00 **110 120.110**
Superior Visual Search in 3 Year Old Children with Autism.
M. O'Riordan¹, K. Peabody*¹, C. Allison¹, S. Baron-Cohen¹,
P. Gerhardstein² and G. Iarocci³, (1)*University of Cambridge*,
(2)*Binghamton University*, (3)*Simon Fraser University*

Program

- 10:00 **111 120.111**
Optimal EIBI Outcomes for Autism Spectrum Disorders: An Analysis of Learning Rate and Treatment Hours. D. Granpeesheh, D. R. Dixon*, J. Tarbox, A. M. Kaplan and A. E. Wilke, *Center for Autism and Related Disorders*
- 11:00 **112 120.112**
Preschool Social Skills Intervention for Children with Autism Spectrum Disorders: a Child Directed Approach. J. L. Mussey*¹, L. G. Klinger¹, E. M. Griffith², A. Williams¹, H. Noble¹, T. Perez², S. McCurry¹ and T. N. Holtzclaw¹, (1)*University of Alabama*, (2)*University of Alabama at Birmingham*
- 12:00 **113 120.113**
Modified Milieu Therapy in the Natural Environment with Young Children with Autism. G. R. Mancil*, *Kelly Autism Program at Western Kentucky University*
- Imitation/Coherence/Language*
- 10:00 **114 120.114**
Joint Effects of Nonverbal Accuracy and Nonverbal Processing Speed on Social Functioning among Children with Autism-Spectrum Disorders and Their Typically-Developing Peers. C. McKown*, N. M. Russo and M. Lipton, *Rush University Medical Center*
- 11:00 **115 120.115**
Grammatical Aspect Is a Strength in the Language Comprehension of Young Children with Autism. L. Naigles*, G. Jaffery, J. Piotroski and D. Fein, *University of Connecticut*
- 12:00 **116 120.116**
The Role of the Self in Autobiographical Memory in Adults with Autism. L. Crane*, L. Goddard and L. Pring, *Goldsmiths College, University of London*
- 10:00 **117 120.117**
Weak Central Coherence and Resistance to Distractor Inhibition in Children with Autism. N. C. Adams* and C. Jarrold, *University of Bristol*
- 11:00 **118 120.118**
Increasing Social Responsiveness in Children with Autism: a Comparison of Music and Non-Music Interventions. E. Finnigan and E. Starr*, *University of Windsor*
- 12:00 **119 120.119**
Selective Attention and Perceptual Load in Autism Spectrum Disorders. A. Remington* and J. Swettenham, *University College London*
- 12:00 **120 120.120**
Perception of Emotion in Musical Performance in Adolescents with ASD. A. K. Bhatara¹, E. M. Quintin*², E. Fombonne³ and D. J. Levitin³, (1)*University of California, Los Angeles*, (2)*Université du Québec à Montréal & Centre for Interdisciplinary Research in Music, Media, and Technology*, (3)*McGill University*
- 10:00 **121 120.121**
Assessing Theories of Central Coherence and Perceptual Functioning with Music in ASD. E. M. Quintin*¹, A. Bhatara², H. Poissant³, E. Fombonne² and D. J. Levitin², (1)*Autism Research Training Program, Université du Québec à Montréal*, (2)*McGill University*, (3)*Université du Québec à Montréal*
- 11:00 **122 120.122**
Role of Pitch-Discrimination Abilities in Sequential Auditory Stream Segregation by Individuals with Asperger's Syndrome. C. Füllgrabe*, *University of Cambridge*
- 12:00 **123 120.123**
The Social World of Autism: Perspectives from Adults on the Autism Spectrum. J. Singh*, *University of California, San Francisco*
- 10:00 **124 120.124**
Relationships Between Executive Functions and Temperament in High-Functioning Youth with an Autism Spectrum Disorder. L. Goodman*, J. Baker and S. A. Johnson, *Dalhousie University*
- 11:00 **25 120.125**
Phenotypic Congruence in Multiplex Autism Families. J. Pandey*¹, K. Carr², A. D. Verbalis², M. Barton² and D. Fein², (1)*Children's Hospital of Philadelphia*, (2)*University of Connecticut*
- 11:00 **125 120.125**
Advanced ToM Tests Which Consist of Visual and Auditory Modalities. M. Kuroda*¹, A. Wakabayashi², T. Uchiyama³, Y. Yoshida⁴, Y. Muramatsu⁴, Y. Uno⁴, Y. Hachiya⁴, N. Hihara⁵ and H. Fujioka⁶, (1)*National Center of Neurology and Psychiatry*, (2)*Chiba University*, (3)*Otsu Women's University*, (4)*Yokohama Psycho-Developmental Clinic*, (5)*Yokohama Tohbu Community Habilitation Center for Children*, (6)*Tsubasa Psycho-Developmental Clinic*
- 12:00 **126 120.126**
Social Engagement and the Pragmatics of Conversation in Autism. R. P. Hobson*¹, J. A. Hobson¹, J. Du Bois² and R. Garcia-Pérez³, (1)*Institute of Child Health, UCL*, (2)*University of California, Santa Barbara*, (3)*Musicaycolor Child Psychology Music Therapy Center*
- 10:00 **127 120.127**
The Role of Learning in Visual Endogenous Orienting. O. Landry*, *University of Western Ontario*
- 11:00 **128 120.128** Relationships Between Memory Performance and Intellectual Ability in Autism Spectrum Disorders. H. L. Phelan, J. H. Filliter* and S. A. Johnson, *Dalhousie University*
- 12:00 **129 120.129**
Central Coherence in the Broader Autism Phenotype. S. E. Griffiths*¹, J. Parr², S. Wallace¹, K. Wittemeyer¹, H. L. Hayward³ and A. Bailey¹, (1)*University of Oxford*, (2)*Great Ormond Street Hospital*, (3)*Unviversity of Oxford*
- 12:00 **130 120.130**
The Pittsburgh Inference Test (PIT): a Pilot Study Evaluating a Measure of Discourse Processing in Individuals with High-Functioning Autism. K. E. Bodner*¹, N. J. Minshew¹ and D. L. Williams², (1)*University of Pittsburgh School of Medicine*, (2)*Duquesne University*
- 10:00 **131 120.131**
Where Autistics Excel: Compiling An Inventory of Autistic Cognitive Strengths. M. Dawson* and L. Mottron, *Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*
- 11:00 **132 120.132**
The Assessment of Cognitive Trait and Thinking Process in ASD using Ambiguous Figure: (2)Developmental Change of Cognition and Emotional Regulation by Aging. M. Myogan*¹, H. Uchida² and M. Tsujii³, (1)*Tokai Gakuin university*, (2)*University of East Asia*, (3)*Osaka-Hamamatsu Joint Center for Child Mental Development*
- 12:00 **133 120.133**
The Assessment of Cognitive Trait and Thinking Process in ASD Using Ambiguous Figure: (1)the Comparison with Schizophrenia. M. Myogan*¹, H. Uchida² and M. Tsujii³, (1)*Tokai Gakuin university*, (2)*University of East Asia*, (3)*Osaka-Hamamatsu Joint Center for Child Mental Development*

*Clinical Phenotype/Symptoms*10:00 **134 120.134**

Autoimmune Disorders in Probands and First-Degree Relatives of the Simons Simplex Collection Data. E. Fombonne^{*1}, R. Maxim², M. Steiman³ and A. Whitaker⁴, (1)*McGill University*, (2)*Saint Louis University*, (3)*Montreal Children's Hospital*, (4)*Columbia University Medical Center*

11:00 **135 120.135**

Expression of the Broad Autism Phenotype in First Degree Relatives from the Simons Simplex Collection. S. U. Peters^{*1}, R. P. Goin-Kochel¹, R. Hundley², Z. Warren³ and J. N. Constantino⁴, (1)*Baylor College of Medicine*, (2)*Children's Hospital*, (3)*Vanderbilt University*, (4)*Washington University School of Medicine*

12:00 **136 120.136**

Representing Behavioral Phenotypic Heterogeneity within Autism Spectrum Disorders (ASD): Questions and Answers from the Simons Simplex Collection. C. Lord^{*1}, L. Harvey², E. Petkova³, S. Qiu², J. Tjernagel², R. Bernier⁴, J. N. Constantino⁵, E. H. Cook⁶, O. Ousley⁷, W. Stone⁸, Z. Warren⁸, A. Beaudet⁹, D. E. Treadwell-Deering¹⁰, B. Peterson¹¹, A. Whitaker¹², D. H. Ledbetter⁷, C. L. Martin⁷, E. Hanson¹³, C. A. Walsh¹⁴, E. Fombonne¹⁵, M. Steiman¹⁶, D. Geschwind¹⁷, J. Piggot¹⁷, C. W. Brune⁶, D. M. Martin¹, S. M. Kanne¹⁸, J. H. Miles¹⁸, E. M. Wijsman⁴, J. Sutcliffe⁸, R. Maxim¹⁹, A. Klin²⁰ and L. Quirnbach²⁰, (1)*University of Michigan*, (2)*University of Michigan Autism & Communication Disorders Center (UMACC)*, (3)*NYU Child Study Center*, (4)*University of Washington*, (5)*Washington University School of Medicine*, (6)*University of Illinois at Chicago*, (7)*Emory University*, (8)*Vanderbilt University*, (9)*Baylor College of Medicine*, (10)*Texas Children's Hospital, Baylor College of Medicine*, (11)*Columbia University, NYS Psychiatric Institute*, (12)*Columbia University Medical Center*, (13)*Children's Hospital*, (14)*Children's Hospital Boston*, (15)*McGill University*, (16)*Montreal Children's Hospital*, (17)*University of California, Los Angeles*, (18)*University of Missouri*, (19)*Saint Louis University*, (20)*Yale University School of Medicine*

10:00 **137 120.137**

Characterization of Restricted and Repetitive Behavior and Interests in Autism Spectrum Disorders within and beyond the ADI-R Using the Simons Simplex Collection. C. W. Brune^{*1}, E. Hanson², J. Piggot³, O. L. T. Wong³ and M. Gregas⁴, (1)*University of Illinois at Chicago*, (2)*Children's Hospital*, (3)*University of California, Los Angeles*, (4)*Children's Hospital Boston*

11:00 **138 120.138**

Symptoms of Psychiatric Comorbidity in Children and Adolescents with Autism Spectrum Disorders: An Examination of the Child Behavior Checklist from the Simons Simplex Collection Database. O. Ousley^{*1}, E. H. Cook² and D. E. Treadwell-Deering³, (1)*Emory University*, (2)*University of Illinois at Chicago*, (3)*Texas Children's Hospital, Baylor College of Medicine*

12:00 **139 120.139**

Relationship Between Adaptive Functioning, IQ, and Symptom Severity in Individuals with ASD: The Simons Simplex Collection. A. J. Gerber^{*1}, S. M. Kanne², L. Quirnbach³, M. Algermissen¹, P. D. LaVesser⁴ and C. A. Saulnier³, (1)*Columbia University / New York State Psychiatric Institute*, (2)*University of Missouri*, (3)*Yale University School of Medicine*, (4)*Washington University*

10:00 **140 120.140**

Characterisation of Cognitive Profiles in Autism Spectrum Disorder Using the Simons Simplex Collection. J. Piggot^{*1}, R. Loftin² and L. Guy³, (1)*University of California, Los Angeles*, (2)*University of Illinois at Chicago*, (3)*Marcus Autism Center, Emory University School of Medicine*

11:00 **141 120.141**

Rey-Osterrieth Complex Figure Performance in High-Functioning Individuals with ASD: An Update. K. D. Tsatsanis^{*1}, I. L. J. Noens², C. L. Illmann³, D. L. Pauls³, F. R. Volkmar⁴, R. T. Schultz⁵ and A. Klin⁴, (1)*Yale Child Study Center*, (2)*Katholieke Universiteit Leuven*, (3)*Massachusetts General Hospital*, (4)*Yale University School of Medicine*, (5)*Children's Hospital of Philadelphia and the University of Pennsylvania*

Program

Friday May 8 – PM				
12:30-1:30P	Box Lunch (Normandie Lounge & Grand Ballroom)			
1:30-5:30P	Poster Presentations IV (Northwest Hall)			
1:30-3:30P	Invited Educational Symposium: Psychiatric Comorbidities and Treatment (Grand Ballroom)	Oral Presentations: Animal Models (Northwest Hall 1)	Oral Presentations: School/Memory/Mentalizing (Northwest Hall 2)	Oral Presentations: Face Processing (Northwest Hall 5)
3:30-4:00p	Break (Northwest Hall and Normandie Lounge)			
4:00-6:00P	Oral Presentations: Imaging - Medical Implications? (Northwest Hall 1)	Oral Presentations: Molecular Genetics II (Northwest Hall 2)	Oral Presentations: Infant Siblings (Northwest Hall 5)	

Invited Educational Symposium 121 Psychiatric Comorbidities and Treatment 1:30 PM - 3:30 PM - Grand Ballroom

Speakers: J. A. Helligs¹, T. Owley², B. Handen³; (1)University of Kansas Medical Center, (2)University of Illinois at Chicago, (3)Univ of Pittsburgh

- 1:30 **121.00**
Diagnosis and Treatment of ADHD Symptoms In Autism. B. Handen*, Univ of Pittsburgh
- 2:10 **121.01**
Anxiety and Obsessive Compulsive Disorder Issues in Autism Spectrum Disorders. T. Owley*, University of Illinois at Chicago
- 2:50 **121.02**
Mood Disorders Comorbid with Autism Spectrum Disorders. J. A. Helligs*, University of Kansas Medical Center

Oral Presentations 122 Animal Models 1:30 PM - 3:30 PM - Northwest Hall Room 1

- 1:30 **122.00**
Differential Synaptic Changes in Model Systems of Autism Spectrum Disorders. O. Bozdagi, J. D. Buxbaum*, G. Cai, P. R. Hof, G. Huntley, L. Ospina, T. Sakurai, N. Takahashi and Q. Zhou, Mount Sinai School of Medicine
- 1:50 **122.01**
Autism as Synapsopathy: Animal Models Based on Genetic Mutations in Trans-Synaptic Cell Adhesion Molecules. C. M. Powell*¹, M. R. Etherton¹, C. Blaiss¹, K. Tabuchi², J. Blundell¹, R. Hammer¹, X. Liu¹ and T. Sudhof², (1)The University of Texas Southwestern Medical Center, (2)Stanford Medical School
- 2:10 **122.02**
Effects of Reduced Reelin Expression and Altered Sex Steroids on Brain Circuitry and Behavior in Mice. F. Keller*¹, F. Biamonte¹, M. Marano¹, E. Romano², S. Macri² and G. Laviola², (1)Università Campus Bio-Medico, (2)Istituto Superiore di Sanità
- 2:30 **122.03**
The Genetics of Social Behavior in Mice: Implications for Autism Spectrum Disorders. V. J. Bolivar*¹ and R. C. Auerbach², (1)Wadsworth Center, New York State Department of Health, (2)School of Public Health, University at Albany
- 2:50 **122.04**
Alterations in the Indirect Basal Ganglia Pathway in An Animal Model of Repetitive Behavior. M. Lewis*, Y. Tanimura, S. Vaziri and D. Khosrowzadeh, University of Florida

- 3:10 **122.05**
Behavioral and Neurochemical Characterization of the Serotonin Transporter Gly56Ala Knock-in Mouse. J. Veenstra-VanderWeele*, C. L. Muller, J. Cohen, T. Jessen, B. Thompson, A. M. D. Carneiro, C. B. Zhu, M. D. Carter, H. C. Prasad, J. Sutcliffe and R. D. Blakely, Vanderbilt University

Oral Presentations 123 School/Memory/Mentalizing 1:30 PM - 3:30 PM - Northwest Hall Room 2

- 1:30 **123.00**
Mediators of Student Success in a Randomized Controlled Study of Teacher Consultation in Autism: a Preliminary Investigation Establishing Proof of Concept. L. A. Ruble*¹ and J. H. McGrew², (1)University of Kentucky, (2)Indiana University - Purdue University Indianapolis
- 1:50 **123.01**
The Effects of a Randomized Controlled Social Skills Intervention on Peer Relationships and Social Networks of Children with Autism in the School Setting. C. Kasari*¹, J. Locke¹, A. Gulsrud¹ and E. Rotheram-Fuller², (1)University of California, Los Angeles, (2)Temple University
- 2:10 **123.02**
Helping High-Functioning Students with Autism Spectrum Disorder Overcome Their Reading Problems: a Randomized Field Study. C. Roux* and E. Dion, University of Quebec in Montreal
- 2:30 **123.03**
Discriminant Analysis and Reliability Evaluation of Fidelity Measures for Comprehensive Treatment Models Serving Young Children with Autism Spectrum Disorders. K. Hume*¹, B. Boyd², D. Coman³, A. Gutierrez³, E. Shaw¹, L. Sperry⁴, M. Alessandri³ and S. Odom⁵, (1)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, (2)FPG Child Development Institute, (3)University of Miami, (4)University of Colorado Denver, (5)University of North Carolina
- 2:50 **123.04**
Remembering the Past and Imagining the Future Amongst Individuals with Autism. S. E. Lind* and D. M. Bowler, City University, London
- 3:10 **123.05**
Eye Tracking Reveals Impairments in Implicit Mentalizing in Adults with Asperger's Disorder. A. Senju*¹, V. Southgate¹, S. White², D. Coniston² and U. Frith², (1)Birkbeck, University of London, (2)University College London

Oral Presentations

124 Face Processing

1:30 PM - 3:30 PM - Northwest Hall Room 5

- 1:30 **124.00**
Facial Recognition, Configural Processing, and Concept Formation in High-Functioning Autism. N. J. Minshew^{*1}, K. E. Bodner¹ and D. L. Williams², (1)*University of Pittsburgh School of Medicine*, (2)*Duquesne University*
- 1:50 **124.01**
Attentional Abnormalities in Young Children with ASD: Limited Capture by Socially Relevant Stimuli. K. Chawarska^{*}, F. R. Volkmar and A. Klin, *Yale University School of Medicine*
- 2:10 **124.02**
Is Face Recognition Really Impaired in Autism Spectrum Disorders? the Role of Gaze Direction. S. R. Zaki^{*1} and S. A. Johnson², (1)*Williams College*, (2)*Dalhousie University*
- 2:30 **124.03**
Perceptual Matching of Facial Expressions and Identities in Children with Autism Spectrum Disorders. K. Evers^{*1}, J. Steyaert² and J. Wagemans³, (1)*Katholieke Universiteit Leuven*, (2)*UPC-K.U.Leuven*, (3)*Katholieke Universiteit Leuven, Belgium*
- 2:50 **124.04**
An Investigation of Social-Perception Strategies in the Broad Autism Phenotype: Integrating Eye Tracking and Behavioral Methodologies. K. P. Wilson^{*}, M. Losh and P. C. Gordon, *University of North Carolina at Chapel Hill*
- 3:10 **124.05**
Seeing Things That Aren't There: Perception of Faces and Objects in Visual White Noise in Autism and Asperger's Syndrome. H. S. Cheang^{*1}, L. Mottron² and B. Jemel³, (1)*Rivière-des-Prairies Hospital/University of Montreal*, (2)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (3)*Hopital Riviere des Prairies/University of Montreal*

Oral Presentations

125 Molecular Genetics II

4:00 PM - 6:00 PM - Northwest Hall Room 2

- 4:00 **125.00**
Dendritic Trafficking & ASDs: Convergent Evidence Identifying MAP/ Microtubule Affinity-Regulating Kinase (*MARK1*) as a Susceptibility Gene for Autism. M. J. Simonneau^{*1}, G. Maussion¹, J. Carayol², A. M. Lepagnol-Bestel¹, F. Tores², Y. Loe-Mie¹, U. Milbreta¹, F. Rousseau², J. Renaud³, J. M. Moalic², A. Chedotal⁴, P. Gorwood¹, N. Ramoz¹ and J. Hager², (1)*INSERM*, (2)*IntegraGen SA*, (3)*INSERM U592*, (4)*INSERM U968, Institut de la Vision*
- 4:20 **125.01**
Novel Variants Identified in Methyl-CpG-Binding Protein Genes in Autistic Individuals. H. N. Cukier^{*1}, R. Rabinovitch², I. Konidari¹, M. Y. Rayner², M. L. Baltos², H. H. Wright³, R. K. Abramson³, M. L. Cuccaro¹, M. A. Pericak-Vance¹ and J. R. Gilbert¹, (1)*University of Miami Miller School of Medicine*, (2)*Miami Institute for Human Genomics*, (3)*University of South Carolina School of Medicine*

- 4:40 **125.02**
BDNF/TRKB Signalling Pathway in Autism: Increased Plasma BDNF Levels and Association of NTRK2 Genetic Variants in An Autism Population Sample. C. Correia¹, A. Coutinho², S. Silva², I. Sousa², L. Lourenço², J. Almeida³, R. Lontro³, C. Lobo³, T. S. Migueis³, L. Gallagher⁴, M. Gill⁴, S. Ennis⁵, T. Magalhães¹, G. Oliveira³ and A. Vicente^{*1}, (1)*Instituto Gulbenkian de Ciência/Instituto Nacional de Saúde Dr. Ricardo Jorge*, (2)*Instituto Gulbenkian de Ciência*, (3)*Hospital Pediátrico de Coimbra*, (4)*Trinity College Dublin*, (5)*National Center for Medical Genetics/UCD*

- 5:00 **125.03**
The Synaptic Vesicle Gene *RIMS3* Is a Novel Candidate for Autism. R. A. Kumar^{*1}, J. Sudi¹, T. D. Babatz¹, C. W. Brune², D. Oswald³, N. J. Nowak⁴, E. H. Cook², W. B. Dobyns¹ and S. L. Christian¹, (1)*University of Chicago*, (2)*University of Illinois at Chicago*, (3)*Virginia Commonwealth University*, (4)*University of Buffalo*

- 5:20 **125.04**
MECP2 Is Associated with Autism. R. Delahanty^{*1}, E. L. Crawford¹, B. Yaspan¹, E. Kistner², N. Cox², E. H. Cook³ and J. Sutcliffe¹, (1)*Vanderbilt University*, (2)*University of Chicago*, (3)*University of Illinois at Chicago*

Oral Presentations

126 Infant Siblings

4:00 PM - 6:00 PM - Northwest Hall Room 5

- 4:00 **126.00**
Comparing Prospective and Retrospective Measures of Early Language Regression in Children with Autism from a High-Risk Infant Cohort. L. Zwaigenbaum^{*1}, S. E. Bryson², J. Brian³, I. M. Smith², W. Roberts⁴, P. Szatmari⁵, C. Roncadin⁶ and T. Vaillancourt⁷, (1)*University of Alberta*, (2)*Dalhousie University/IWK Health Centre*, (3)*Hospital for Sick Children & Bloorview Kids Rehab*, (4)*University of Toronto*, (5)*Offord Centre for Child Studies, McMaster University*, (6)*Peel Children's Centre*, (7)*University of Ottawa*
- 4:20 **126.01**
Preverbal Vocalizations in Infant Siblings of Children with ASD. R. Paul^{*}, A. Klin and K. Chawarska, *Yale University School of Medicine*
- 4:40 **126.02**
Group Level Similarities and Differences in Neural Processing in Infants at Genetic Risk for Autism: Implications for Developing Predictors of Later Behavioral Outcomes. M. Elsabbagh^{*1}, E. Mercure¹, H. Garwood¹, A. Volein¹, L. A. Tucker¹, K. Hudry², S. Chandler², K. Frame², T. Charman², S. Baron-Cohen³, P. Bolton⁴ and M. Johnson¹, (1)*Birkbeck, University of London*, (2)*Institute of Education, University of London*, (3)*University of Cambridge*, (4)*Institute of Psychiatry*
- 5:00 **126.03**
Infants at High Risk for Autism Spectrum Disorder: Social-Communication and Language Skills at 12 Months. S. Macari^{*}, K. Bearss, G. Gengoux and K. Chawarska, *Yale University School of Medicine*
- 5:20 **126.04**
Differential Early Temperament Trajectories in Children at High Risk of Developing Autistic Spectrum Disorder. N. Garon^{*1}, J. Brian², W. Roberts³, I. M. Smith⁴, P. Szatmari⁵, L. Zwaigenbaum⁶ and S. E. Bryson⁴, (1)*IWK Health Centre*, (2)*Hospital for Sick Children & Bloorview Kids Rehab*, (3)*University of Toronto*, (4)*Dalhousie University/IWK Health Centre*, (5)*McMaster University*, (6)*University of Alberta*

Program

5:40 **126.05**
Temperament Profiles of Infants Subsequently Diagnosed with ASD. M. Del Rosario*¹, T. Hutman¹, G. S. Young², S. J. Rogers³, S. Ozonoff² and M. Sigman¹, (1)*University of California, Los Angeles*, (2)*M.I.N.D. Institute, University of California at Davis Medical Center*, (3)*M.I.N.D. Institute, University of California at Davis*

Oral Presentations

127 Imaging - Medical Implications?

4:00 PM - 6:00 PM - Northwest Hall Room 1

4:00 **127.00**
Patterns of Epileptiform Activity in Autism as Revealed by MEG. J. D. Lewine*, M. Stein, C. Demopoulos and M. Stepanky, *Alexian Brothers Medical Center*

4:20 **127.01**
Incidental Magnetic Resonance Imaging (MRI) Findings in Young Children with Autism. D. G. Amaral*¹, C. W. Nordahl², T. J. Simon¹, R. L. Hansen³ and S. L. Wootton-Gorges⁴, (1)*University of California, Davis*, (2)*M.I.N.D. Institute, University of California at Davis*, (3)*University of California at Davis*, (4)*University of California, Davis Medical Center and U.C. Davis Children's Hospital*

4:40 **127.02**
Normal Rates of Clinical Neuroradiological Abnormalities in Children with High Functioning Autism. R. Vasa*¹, M. E. Richardson² and S. H. Mostofsky¹, (1)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*, (2)*Kennedy Krieger Institute*

5:00 **127.03**
Neuroradiological Incidental MRI Findings in Children with Autism Compared to Healthy Typically Developing Controls. S. J. Spence¹, A. W. Buckley*², M. Gozzi¹, R. K. Lenroot¹, L. S. Clasen¹, J. N. Giedd¹ and S. E. Swedo², (1)*NIH*, (2)*National Institute of Mental Health, National Institutes of Health*

5:20 **127.04**
Sound Sensitivities in Autism: Evaluation by MEG and Treatment by AIT. J. D. Lewine*, C. Demopoulos and M. Stepanky, *Alexian Brothers Medical Center*

5:40 **127.05**
Noradrenergic EFFECTS on Functional Connectivity in Autism. A. Narayanan*¹, C. White¹, S. Saklayen¹, M. Scaduto¹, A. Abduljalil¹, P. Schmalbrock¹ and D. Q. Beversdorf², (1)*The Ohio State University*, (2)*University of Missouri, Columbia*

128 Poster IV

1:30 PM - 5:30 PM - Northwest Hall

Sleep

2:30 **1 128.01**
Sleep Modulates Daytime Behavior in Children with Autism Spectrum Disorders. S. E. Goldman*, K. Adkins, K. L. Surdyka and B. A. Malow, *Vanderbilt University*

3:30 **2 128.02**
Differentiated Effects of Sensory Interventions on Aberrant Behavior and Sleep Patterns in Children with Autism. G. R. Mancil and M. Boman*, *Kelly Autism Program at Western Kentucky University*

Family

1:30 **3 128.03**
The Influence of Caregiver Verbal Interactions during Conjoint Consultation on Child Outcomes. A. A. Smith*, A. Kirk and L. A. Ruble, *University of Kentucky*

2:30 **4 128.04**
Differences in Perceptions of Mothers and Fathers of Children with Autism in Regards to Stress, Family Cohesion and Adaptability. S. A. Donaldson*¹, J. H. Elder¹, J. Kairalla², G. Valcante³, R. Bendixen³, R. Ferdig³, E. H. Self¹, P. J. Mutch⁴, T. K. Murphy⁴, J. Walker³, C. Palau¹, M. Serrano¹ and T. Galante³, (1)*College of Nursing*, (2)*University of Florida*, (3)*University of Florida*, (4)*University of South Florida*

3:30 **5 128.05**
Stress and Positive Emotions among Mothers of Children with Autism Spectrum Disorder: a Daily Diary Study. N. Ekas* and T. L. Whitman, *University of Notre Dame*

1:30 **6 128.06**
Outcomes for Families of Children with Autism Spectrum Disorder Involved in Early Intervention. S. Mastrangelo*, *York University-Milton and Ethel Harris Research Initiative*

2:30 **7 128.07**
Roles and Experiences of Fathers of Children with Autism. D. B. Nicholas*¹, L. Zwaigenbaum², P. McKeever³, R. MacCulloch⁴ and W. Roberts⁵, (1)*University of Calgary*, (2)*University of Alberta*, (3)*Bloorview Kids Rehab and Hospital for Sick Children/ University of Toronto*, (4)*The Hospital for Sick Children*, (5)*University of Toronto*

3:30 **8 128.08**
Marital Adjustment, Social Support, and Parenting-Related Stress in Mothers and Fathers of Preschool-Aged Children with Autism. T. St. John*, A. M. Estes and J. Munson, *University of Washington*

3:30 **9 128.09**
Relationships Between Aberrant Behavior in Children with ASD and Maternal Parent Stress Over Four Years. S. Jull*, P. Mirenda, R. Stock and K. Bopp, *University of British Columbia*

1:30 **10 128.10**
Vaccines & Autism: A Parental Perspective. A. M. Young* and L. A. Ruble, *University of Kentucky*

2:30 **11 128.11**
Socioeconomic Status among Utah Children with Autism Spectrum Disorders and Mental Retardation. J. Pinborough-Zimmerman*¹, R. Satterfield², S. Hossain², D. Bilder¹ and W. McMahon¹, (1)*University of Utah*, (2)*Utah Department of Health*

3:30 **12 128.12**
Pivotal Response Training Group Therapy Model: Analysis of Parent and Child Outcomes. M. B. Minjarez*, S. E. Williams and A. Y. Hardan, *Stanford University School of Medicine/Lucile Packard Children's Hospital*

1:30 **13 128.13**
Promoting Joint Attention for Toddlers with Early Indicators of Autism: a Parent-Mediated Approach. H. Schertz*¹, K. Baggett² and S. Odom³, (1)*Indiana University*, (2)*University of Kansas*, (3)*University of North Carolina*

2:30 **14 128.14**
Observing Autistic Family Relationships: a Pilot Study on Support Intervention to Parents and Their Children. L. Vismara*¹ and G. Doneddu², (1)*University of Cagliari*, (2)*A.O.B. (Azienda Ospedaliera Brotzu)*

3:30 **15 128.15**
Joint Attention Intervention Combined the Training of Children with Autism and Their Parents: The Preliminary Findings. C. H. Chiang*, Y. L. Peng and S. J. Chiang, *National Chung Cheng University*

- 1:30 **16 128.16**
A Strength-Based Approach to Parent Education for Children with Autism. A. Mossman*, *Yale University*
- 2:30 **17 128.17**
Practitioners' Disclosure of a Child's Diagnosis of Autism to Parents: Current Practices and Identified Barriers to Effective Communication and Support. D. W. Mruzek*¹, C. Burns¹, E. Baltus-Hebert¹, M. Orlando¹, S. Sulkes², J. Yingling¹, K. O'Mara¹, S. A. Nichols¹, L. N. Barzotto¹, M. Ryan¹, D. Vogler-Elias¹, J. Roesser¹ and P. Gemmill¹, (1)*University of Rochester Medical Center*, (2)*Strong Center for Developmental Disabilities, University of Rochester Medical Center*
- 3:30 **18 128.18**
Parenting Children with Autism Spectrum Disorders: Unique Challenges for Individual and Family Functioning?. M. M. Abdullah*, A. R. Ly, K. Thorsen, S. N. Grondhuis and W. A. Goldberg, *University of California, Irvine*
- 3:30 **19 128.19**
Father Involvement in Families of Children with Autism Spectrum Disorders (ASD). A. R. Ly*, M. M. Abdullah, K. Thorsen, S. N. Grondhuis and W. A. Goldberg, *University of California, Irvine*
- 1:30 **20 128.20**
Parent Emotion Coaching and Emotion Regulation in Children with Autism Spectrum Disorders. D. Rezendes* and A. Scarpa, *Virginia Tech*
- 2:30 **21 128.21**
Factors That Influence the Psychosocial Wellbeing of Siblings of Children with An Autism Spectrum Disorder Compared to Siblings of Typically Developing Children. S. K. Dickson*¹, K. M. Lesko¹ and J. Pinto-Martin², (1)*University of Pennsylvania School of Nursing*, (2)*University of Pennsylvania*
- 3:30 **22 128.22**
Family Support Program for Parents of Adolescents and Adults with High-Functioning Autism and Asperger Syndrome in Japan. M. Tsujii*, *Chukyo university*
- 1:30 **23 128.23**
Parents of Preschool Children with ASD: Stress, Burnout, Social Support and Beliefs in ABA during Initial Workshop Training. M. N. Gragg*, D. D. Barrie and M. G. Simmering, *University of Windsor*
- 2:30 **24 128.24**
An Exploration of the Internal Working Models of Caregiver Attachments in High-Functioning Children with Autistic Disorder. F. K. Chandler*¹ and C. Dissanayake², (1)*Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University*, (2)*La Trobe University*
- 3:30 **25 128.25**
Developing An Intervention to Improve Flexibility in High-Functioning Children with ASD: What Do Parents, Teachers, and Children Say They Need?. K. Kane, J. L. Sokoloff, L. Kenworthy and L. G. Anthony*, *Children's National Medical Center*
- 1:30 **26 128.26**
The Relationship Between Child-Related Stress of Parent Participants and Child Gains in a Behavioral Intervention Program for Children with Autism Spectrum Disorders (ASD). R. Gutierrez*¹, S. Dufek¹, L. Schreiber*¹, A. Stahmer², R. L. Koegel³ and L. K. Koegel³, (1)*University of California, San Diego*, (2)*Rady Children's Hospital*, (3)*University of California, Santa Barbara*
- 2:30 **27 128.27**
Effects of a Family-Based Treatment on the Repetitive Behaviors of Children with Autism. B. Boyd*¹, S. McDonough², T. N. Holtzclaw³ and J. Bodfish⁴, (1)*FPG Child Development Institute*, (2)*University of North Carolina*, (3)*University of Alabama*, (4)*University of North Carolina at Chapel Hill*
- Restricted and Repetitive Behaviors/Sensory and Motor Systems*
- 3:30 **28 128.28**
Social Functioning and Restricted and Repetitive Behaviors: An Early Analysis of Data from the Autism Center of Excellence and Simons Simplex Collection Studies at UIC. M. Huerta*, R. Loftin, J. Klaver, P. Cali, C. W. Brune and E. H. Cook, *University of Illinois at Chicago*
- 3:30 **29 128.29**
A Clinical Trial of Occupational Therapy for Sensory Dysfunction in ASD. R. Schaaf*¹, T. Benevides¹, D. Kelly², E. Blanche³ and Z. Mailloux⁴, (1)*Thomas Jefferson University*, (2)*Children's Specialized Hospital*, (3)*University of Southern California*, (4)*Pediatric Therapy Network*
- 1:30 **30 128.30**
Visual Sensitivity to Angry Point-Light Walkers Varies as a Function of the Observer's Autistic Traits. M. D. Kaiser* and M. Shiffrar, *Rutgers University*
- 2:30 **31 128.31**
Ratings of Hypothetical Pain by Children and Adolescents with and without Autism Spectrum Disorders. N. F. Bandstra*, C. T. Chambers and S. A. Johnson, *Dalhousie University*
- 3:30 **32 128.32**
Food Selectivity and Sensory Issues in Children with Autism Spectrum Disorders. L. Bandini*¹, S. E. Anderson², C. Curtin¹, S. A. Cermak³, E. W. Evans⁴, R. Scampini¹, M. C. T. Maslin¹ and A. Must⁵, (1)*University of Massachusetts Medical School*, (2)*The Ohio State University*, (3)*University of Southern California*, (4)*Children's Hospital Boston*, (5)*Tufts University School of Medicine*
- 1:30 **33 128.33**
The Influence of Functional Play on the Development of Executive Functioning Skills and Aberrant Behaviors in Children with Autism. K. Stamper* and R. Bernier, *University of Washington*
- 2:30 **34 128.34**
Sensory Processing Subtypes in Autism: Association with Adaptive Behavior and Autism Severity. A. E. Lane*¹, R. L. Young², A. E. Z. Baker³ and M. T. Angley³, (1)*The Ohio State University*, (2)*Flinders University*, (3)*University of South Australia*
- 1:30 **36 128.36**
Development of Motor Coordination and Anticipatory Control in Children with Autism. D. Thorpe¹, G. T. Baranek*¹ and F. J. David², (1)*University of North Carolina at Chapel Hill*, (2)*University of Illinois at Chicago*
- 2:30 **37 128.37**
Is Emotion Recognition Impaired in High Functioning Individuals with ASDs?. R. A. Schrier*¹, J. L. Tracy², R. W. Robins¹ and M. Solomon³, (1)*UC Davis Department of Psychology*, (2)*University of British Columbia*, (3)*MIND Institute, Imaging Research Center*
- 3:30 **38 128.38**
A Novel Approach to Actigraphy in Children with Autism Spectrum Disorders. K. L. Surdyka*, K. Adkins, S. E. Goldman, D. Wofford and B. A. Malow, *Vanderbilt University*

Program

Social Function and Treatment

- 3:30 **39 128.39**
The Use of Social Observation in Predicting Variation in Outcome among Adolescents with High-Functioning Autism. C. Schwartz^{*1}, H. A. Henderson² and P. C. Mundy³, (1)*Yale University*, (2)*University of Miami*, (3)*UC Davis*
- 1:30 **40 128.40**
Eye-Tracking Measures of Social Monitoring in Children with Autism. A. M. Krasno^{*}, A. Klin and W. Jones, *Yale University School of Medicine*
- 2:30 **41 128.41**
Predictors of Social Communication Competence in a General Population of Children. D. H. Skuse^{*1}, W. Mandy² and J. Golding³, (1)*Institute of Child Health*, (2)*University College London*, (3)*University of Bristol*
- 3:30 **42 128.42**
Perception of Embarrassment in Adolescents with Asperger's Syndrome and Implications for Intervention. T. Oswald and L. Moses, *University of Oregon*
- 1:30 **43 128.43**
Effects of a Clinic-Based Conversation Skills Group Training Program on Children with High Functioning Autism/Asperger Syndrome. A. Breit-Smith^{*1}, D. S. Murray² and C. A. Molloy², (1)*University of Cincinnati*, (2)*Cincinnati Children's Hospital Medical Center*
- 2:30 **44 128.44**
Social Stories to Improve Social Skills in Children with Autism Spectrum Disorder: a Systematic Review. B. G. Clark^{*} and M. Karkhaneh, *University of Alberta*
- 3:30 **45 128.45**
Social Orienting Impairment in Autism: Relations among Look Length, Disengagement, and Symptom Severity. L. E. Bahrack^{*}, J. T. Todd, M. Vaillant-Molina, B. M. Sorondo and I. Castellanos, *Florida International University*
- 1:30 **46 128.46**
Critical Self-Referent Attributions Potentiate Social Skills Intervention Response in Adolescents with Asperger Syndrome & High-Functioning Autism. M. D. Lerner^{*1}, J. R. Spies¹, B. L. Jordan² and A. Y. Mikami¹, (1)*University of Virginia*, (2)*McLean Hospital*
- 2:30 **47 128.47**
Improving Social Skills in Adolescents with Autism Spectrum Disorders: The Adaptation of the UCLA PEERS Program into a School-Based Teacher-Assisted Intervention. R. W. Ellingsen^{*1}, E. Laugeson², J. Sanderson², J. Lee¹, A. Lenvin¹, J. McNamara¹ and F. Frankel², (1)*University of California, Los Angeles*, (2)*UCLA Semel Institute for Neuroscience & Human Behavior*
- 3:30 **48 128.48**
Modification of An Emotion-Based Social Skills Training Program for Children with Autism and Mild Intellectual Disability. B. Ratcliffe^{*1}, V. J. Grahame² and M. G. Wong³, (1)*Children's Hospital at Westmead; Charles Sturt University*, (2)*Fleming Nuffield Unit*, (3)*Children's Hospital at Westmead*
- 3:30 **49 128.49**
Cognitive Profiles and Social Presentation: An Early Analysis of Data from the Autism Center of Excellence and Simons Simplex Collection Studies at UIC. P. Cali^{*}, J. Klaver, R. Loftin, M. Huerta, C. W. Brune and E. H. Cook, *University of Illinois at Chicago*
- 2:30 **51 128.51**
Functional Analysis of Social Behavior in Children with Autism. M. A. Conroy^{*}, *Virginia Commonwealth University*
- 3:30 **52 128.52**
Participation of Children with ASD in Social, Recreational, and Leisure Activities. A. Solish^{*1}, A. Perry² and P. Minnes³, (1)*York University*, (2)*Thistletown Regional Centre*, (3)*Queen's University*
- 1:30 **53 128.53**
Empathy in High-Functioning Autism. A. Newbigin^{*1} and C. Dissanayake², (1)*Olga Tennison Autism Research Centre, La Trobe University*, (2)*La Trobe University*
- 2:30 **54 128.54**
A Randomized Control Trial of Reciprocal Imitation Training in Young Children with Autism. B. Ingersoll^{*} and N. Bonter, *Michigan State University*
- 3:30 **55 128.55**
CBT Social Skills Intervention for School Aged Boys with ASD. C. Koning^{*1}, W. Mitchell², J. Magill-Evans¹ and J. Volden¹, (1)*University of Alberta*, (2)*Glenrose Rehabilitation Hospital*
- 1:30 **56 128.56**
Concomitant Gains in Joint Attention Via Naturalistic Communication Intervention. A. B. Cunningham^{*1}, J. Suhrheinrich¹, L. Schreibman¹, A. Stahmer², R. L. Koegel³ and L. K. Koegel³, (1)*University of California, San Diego*, (2)*Rady Children's Hospital*, (3)*University of California, Santa Barbara*
- 2:30 **57 128.57**
Emotion Perception during An Audio-Visual Emotion Perception Task: Differences Between Forced-Choice and Free Response Formats in Individuals with Autism Spectrum Disorders and Typically-Developing Individuals. S. M. McManus^{*}, A. Rozga, J. L. Zaj, T. Z. King and D. L. Robins, *Georgia State University*
- 3:30 **58 128.58**
Autistic Traits and Sensitivity to Instruction. C. Hutchins^{*1}, M. Ota² and M. E. Stewart¹, (1)*Heriot-Watt University*, (2)*University of Edinburgh*
- 3:30 **59 128.59**
Peer-Mediated Intervention for Elementary School Students with Autism Spectrum Disorders: Considering Both the Role of Attributions and Behavior. A. Blakeley-Smith^{*} and S. Hepburn, *University of Colorado Denver School of Medicine*
- 1:30 **60 128.60**
UCLA PEERS Program: Predictors of Social Skills in Adolescents with High-Functioning Autism. Y. C. Chang^{*1}, A. R. Dillon¹, R. W. Ellingsen², J. Sanderson¹ and E. Laugeson¹, (1)*UCLA Semel Institute for Neuroscience & Human Behavior*, (2)*University of California, Los Angeles*
- 2:30 **61 128.61**
Best-Evidence Synthesis of Interventions for Increasing Pro-Social Behavior of Individuals with Autism Spectrum Disorders. B. Reichow^{*1} and F. R. Volkmar², (1)*Yale Child Study Center*, (2)*Yale University School of Medicine*
- 3:30 **62 128.62**
Parent-Assisted Social Skills Training Program for Young Adults with Autism Spectrum Disorders: The UCLA PEERS Program. A. Gantman^{*} and E. Laugeson, *UCLA Semel Institute for Neuroscience & Human Behavior*
- 1:30 **63 128.63**
Social Functioning and Awareness in Adults with Asperger's Syndrome: The Social Stories Task. H. L. Hayward^{*1} and M. L. Allen², (1)*University of Oxford*, (2)*Lancaster University*

Diagnosis/Comorbidity/Treatment

- 2:30 **64 128.64**
A Comparison of Asperger's Disorder and High Functioning Autism: Are Diagnostic Boundaries Meaningful/Useful?. R. Bernier*, J. Varley, K. M. Venema, K. Stamper and S. J. Webb, *University of Washington*
- 3:30 **65 128.65**
A Scale to Assist the Diagnosis of Autism Spectrum Disorders in Adults: Results of An International Multi -Center Study. E. R. Ritvo*¹, R. A. Ritvo², M. J. Ritvo³ and D. Guthrie¹, (1)*UCLA School of Medicine*, (2)*Yale University School of Medicine*, (3)*Harvard Westlake School*
- 1:30 **66 128.66**
Appropriateness of Standardized Testing to Determine Behavioral Treatment Eligibility of Children with ASD. R. Stock*, P. Mirenda, S. Jull and K. Bopp, *University of British Columbia*
- 2:30 **67 128.67**
Factors Related to False-Positive Diagnoses by Community Sources. E. H. Dohrmann*, A. C. Vehorn, A. G. Nicholson, M. M. Kaminski and Z. Warren, *Vanderbilt University*
- 3:30 **68 128.68**
Specifying Pervasive Developmental Disorder – Not Otherwise Specified: The Case for 'Atypical Autism'. W. Mandy*¹, L. Slatore², M. Murin² and D. H. Skuse³, (1)*University College London*, (2)*Great Ormond Street Hospital for Children*, (3)*Institute of Child Health*
- 3:30 **69 128.69**
Deconstructing the PDD Clinical Phenotype: Internal Validity of the DSM-IV. L. Lecavalier*¹, K. Gadow², C. DeVincent² and M. Edwards¹, (1)*Ohio State University*, (2)*State University of New York*
- 1:30 **70 128.70**
Mental Health Aspects of Autistic Spectrum Disorders. N. Skokauskas*, L. Gallagher, S. Brennan and M. Law, *Trinity College Dublin*
- 2:30 **71 128.71**
Maladaptive Behaviours and Associated Characteristics within Individuals with Autism and Intellectual Disability. K. Wells*¹, A. Perry², A. Levy¹ and N. Luthra¹, (1)*York University*, (2)*Thistletown Regional Centre*
- 3:30 **72 128.72**
Group Cognitive Behavior Therapy for Children with High-Functioning Autism Spectrum Disorders and Anxiety: a Randomized Trial. J. Reaven*, A. Blakeley-Smith, K. Ridge and S. Hepburn, *University of Colorado Denver School of Medicine*
- 1:30 **73 128.73**
Differentiating Autism Spectrum Disorder (ASD) Subtypes Using Estimates of IQ and Language. C. Chrysler*, P. Szatmari and E. Duku, *McMaster University*
- 2:30 **74 128.74**
Angry Faces Lead to Less Facilitation of Conditioned Learning in High-Functioning ASD Than in Comparison Groups. S. E. White*, J. Dana, A. Cariello and M. South, *Brigham Young University*
- 3:30 **75 128.75**
Is Autism a Unitary Construct? Factor Structure of the Childhood Autism Rating Scale. A. Levy*¹, K. Wells¹, A. Perry², J. Dunn Geier³ and N. L. Freeman⁴, (1)*York University*, (2)*Thistletown Regional Centre*, (3)*Children's Hospital of Eastern Ontario*, (4)*Surrey Place Centre*
- 1:30 **76 128.76**
Gender Differences in Symptom Presentation, Emotional Comorbidities and Social Cognition in Higher Functioning Children with Autism. N. Kojkowski*¹, L. Mohapatra¹, C. Hileman¹, P. C. Mundy² and H. A. Henderson¹, (1)*University of Miami*, (2)*UC Davis*
- 2:30 **77 128.77**
Phenomenology of Anxiety and Fears in Clinically Anxious Children with Autism Spectrum Disorders. L. K. Kimmel*¹, D. N. McIntosh² and S. Hepburn³, (1)*University of Denver and University of Colorado Denver, School of Medicine*, (2)*University of Denver*, (3)*University of Colorado Denver School of Medicine*
- 3:30 **78 128.78**
Acceptability of Cognitive-Behavioral Therapy for Teens with Autism Spectrum Disorders. C. E. Pugliese*, S. W. White and R. Nevill, *Virginia Polytechnic Institute and State University*
- 3:30 **79 128.79**
Implementation of Ontology Driven Data Integration in the National Database for Autism Research. L. Young*¹, S. W. Tu², L. Tennakoon², J. McNiece¹, D. Vismer¹, M. E. Martone³, A. K. Das² and M. J. McAuliffe¹, (1)*National Institutes of Health*, (2)*Stanford University*, (3)*University of California, San Diego*
- 1:30 **80 128.80**
Controlling for the Influence of Education Level on Fidelity of Implementation of Pivotal Response Treatment for Children with Autism. J. Randolph*, J. Stichter, K. Visovsky, C. Schmidt and T. Schultz, *University of Missouri*
- 2:30 **81 128.81**
A Multi-Type Model of Inhibitory Control: Evidence from Individuals with Autism Spectrum Disorder. S. E. Christ*, L. B. Brubaker and J. H. Miles, *University of Missouri*
- 3:30 **82 128.82** Group CBT for Mood and Anxiety Problems in Adults with Asperger Syndrome: a Case Series. J. A. Weiss*¹ and Y. Lunsky², (1)*Centre for Addiction and Mental Health & York University*, (2)*Centre for Addiction and Mental Health*
- 1:30 **83 128.83**
Crises in Adolescents and Adults with Autism Spectrum Disorder. C. A. McMorris*¹, Y. Lunsky², C. Jaskulski², M. Viecili² and A. Khodaverdian², (1)*York University, Toronto*, (2)*Centre for Addiction and Mental Health*
- 2:30 **84 128.84**
Teaching Emotion Regulation to Young Children with High Functioning Autism: An Intervention Study. N. M. Reyes* and A. Scarpa, *Virginia Tech*
- 3:30 **85 128.85**
Use of a Picture Schedule to Prepare Children with ASD for Participation in a Research Study. H. Austin*¹, K. Kaparich¹, S. Hepburn² and A. Reynolds¹, (1)*University of Colorado Denver*, (2)*University of Colorado Denver School of Medicine*
- 1:30 **86 128.86**
Treating Anxiety Disorders in Adolescents with High Functioning Autism: The Case of John. A. Drahotka*¹ and J. J. Wood², (1)*University of California, San Diego*, (2)*University of California, Los Angeles*

Brain Structure & Function

- 2:30 **87 128.87**
The Rostrum Is Smaller in High Functioning Adolescents with Autism Spectrum Disorders and Associated with Subclinical Autistic Traits in Typically Developing Adolescents. N. A. Dankner*, M. Reddish, A. Martin, J. N. Giedd and G. L. Wallace, *National Institute of Mental Health, National Institutes of Health*

Program

- 3:30 **88 128.88**
Hemispheric Asymmetries in Neural Resource Allocation in Auditory Language Cortex in Children with Autism and Typically Developing Children: An MEG Investigation. N. M. Gage*, A. L. Isenberg, P. T. Fillmore, K. Osann and M. A. Spence, *University of California, Irvine*
- 3:30 **89 128.89**
Use of the Slicer3 Toolkit to Produce Regional Cortical Thickness Measurement of Pediatric MRI Data. H. C. Hazlett*¹, C. Vachet², C. Mathieu², M. Styner² and J. Piven³, (1)*University of NC*, (2)*UNC*, (3)*University of North Carolina*
- 1:30 **90 128.90**
Investigating Transverse Relaxation Time Abnormalities of White Matter in Autism. Y. Gagnon*¹, D. Drost¹ and R. Nicolson², (1)*University of Western Ontario*, (2)*The University of Western Ontario*
- 2:30 **91 128.91**
Immediate Social Context in Face Processing: An ERP Study of Autism. S. Shultz*¹, W. Jones², A. Klin² and J. McPartland¹, (1)*Yale University*, (2)*Yale University School of Medicine*
- Cognition/Language/Attention*
- 3:30 **92 128.92**
Ratings of Facial Attractiveness by High-Functioning Individuals with Autism. C. A. Best*¹, D. Wilkinson¹, M. S. Strauss¹ and N. J. Minshew², (1)*University of Pittsburgh*, (2)*University of Pittsburgh School of Medicine*
- 1:30 **93 128.93**
Affect Recognition Skills across Four Nonverbal Channels in Children with Autism-Spectrum Disorders and Their Typically-Developing Peers. N. M. Russo*, C. McKown and M. Lipton, *Rush University Medical Center*
- 2:30 **94 128.94**
What's in the Face? the Comprehension of Facial Expressions in Sign Language by Deaf Children with Autism. T. A. Denmark*, J. Swettenham, J. Atkinson and R. Campbell, *University College London*
- 3:30 **95 128.95**
Defining Category Abilities and Challenges in Adolescents with Autism VS. Those with Optimal Outcomes. L. Naigles*, M. Helt, M. Rosenthal, E. Troyb, K. Tyson, I. M. Eigsti and D. Fein, *University of Connecticut*
- 1:30 **96 128.96**
Effects of Face Training and Intervention on Face Memory in Young Children with Autism Spectrum Disorders. K. M. Venema*¹, L. Xuereb¹, E. J. H. Jones¹, D. Kamara¹, K. Merkle¹, S. Faja¹, G. Dawson² and S. J. Webb¹, (1)*University of Washington*, (2)*Autism Speaks, UNC Chapel Hill*
- 3:30 **98 128.98**
Planning and Prospective Memory Performance in Autism Spectrum Disorders: Comparisons Between Laboratory-Based Performance and Performance in Everyday Life. M. Altgassen*, M. Schmitz-Hübisch and M. Kliegel, *Technische Universität Dresden*
- 3:30 **99 128.99**
Visual Search in Static and Dynamic Self-Motion Environments: An Eye-Tracking Study. E. Sheppard*, D. Ropar, G. Underwood and E. Van Loon, *University of Nottingham*
- 1:30 **100 128.100**
Theory of Mind: The Importance of the Right Connections. S. J. Carrington*, M. Rushworth and A. Bailey, *University of Oxford*
- 2:30 **101 128.101**
Language Development among Children with Autism Spectrum Disorders. K. Lopez*¹ and C. Lord², (1)*University of Michigan Autism & Communication Disorders Center (UMACC)*, (2)*University of Michigan*
- 3:30 **102 128.102**
The Role of Task Support in Spatial and Temporal Source Memory of Adults with ASD. D. M. Bowler*, S. B. Gaigg and J. M. Gardiner, *City University, London*
- 1:30 **103 128.103**
Fast-Mapping in Preschoolers with ASD: The Role of Word Learning Constraints, Imitation, and Joint Attention Skills. A. Williams*, L. G. Klinger, J. Scofield, M. R. Klinger and H. Noble, *University of Alabama*
- 2:30 **104 128.104**
Learning in ASDs: Probabilistic Selection and Transitive Inference. M. Solomon*¹, M. J. Frank², S. Ly¹ and C. S. Carter¹, (1)*MIND Institute, Imaging Research Center*, (2)*University of Arizona*
- 3:30 **105 128.105**
Visual Scanning of Dynamic Faces in Relation to Varying Positive and Negative Affect. L. A. Edwards*, W. Jones and A. Klin, *Yale University School of Medicine*
- 1:30 **106 128.106**
Intentional Communication in ASD: Quantitative and Qualitative Distinctions from Typical Development?. J. P. W. Maljaars*¹, I. L. J. Noens², R. M. Jansen¹, E. M. Scholte¹ and I. A. van Berckelaer-Onnes¹, (1)*Leiden University*, (2)*Katholieke Universiteit Leuven*
- 2:30 **107 128.107**
Relation Between Language and False Belief Performance in High Functioning English Speaking Children with Autism. H. Seung*¹, H. Lee² and J. Farrar³, (1)*California State University*, (2)*Yeung Nam University*, (3)*University of Florida*
- 3:30 **108 128.108**
The Shape Bias: Investigations of Word Learning with Children with Autism. G. Jaffery, S. Tek*, J. Piotroski, J. Rodny, D. Fein and L. Naigles, *University of Connecticut*
- 3:30 **109 128.109**
Cues to Word Learning in Autistic Spectrum Disorders. C. Norbury*¹, H. Griffiths² and K. Nation², (1)*Royal Holloway, University of London*, (2)*University of Oxford*
- 1:30 **110 128.110**
Vocal Prosody in Autism: Understanding the Effects of Enhancing Vocal Prosody on Children's Comprehension and Retention of Story Narratives. L. M. Black*¹, J. P. H. van Santen¹, R. Coulston¹, J. de Villiers¹ and R. Paul², (1)*Oregon Health & Science University*, (2)*Yale University School of Medicine*
- 2:30 **111 128.111**
Use of Written Diaries in Tracking the Language Development in Infants at Risk for ASD. Y. Tsai*¹, L. Kasparian¹, L. M. Casner², A. S. Carter³ and H. Tager-Flusberg¹, (1)*Boston University School of Medicine*, (2)*Boston University*, (3)*University of Massachusetts Boston*
- 3:30 **112 128.112**
Neuropsychological Characteristics of School-Age Children with High Functioning Autism, PDD-NOS and Asperger Syndrome: Performance on the NEPSY-I. P. Cavolina¹, G. Doneddu¹, C. Urgesi², I. Obbili*¹, R. Fadda³ and V. Manunza¹, (1)*A.O.B. (Azienda Ospedaliera Brotzu)*, (2)*Faculty of Educational Sciences*, (3)*University of Cagliari*

- 1:30 **113 128.113**
Expressive and Receptive Language Impairment in Young Children with Autism. M. D. Bomba* and E. W. Pang, *Hospital for Sick Children*
- 2:30 **114 128.114**
Are Language Abilities Related to Early Social Aptitude in Young Children with and without Autism Spectrum Disorders?. L. O'Connell*, K. A. Dunfield, E. A. Kelley and V. Kuhlmeier, *Queen's University*
- 3:30 **115 128.115**
Emotion in the Voice: Are Individuals with Autism Impaired on Identifying Emotion from the Voice and Does Semantic Context Affect Accuracy?. M. E. Stewart*¹, C. McAdam¹, J. McCann², S. Peppe² and M. Ota³, (1)*Heriot-Watt University*, (2)*Queen Margaret University*, (3)*University of Edinburgh*
- 1:30 **116 128.116**
Cognitive Functioning and Adaptive Behavior in Children with Autism. M. Al Darwish*, L. LaRose and R. Nicolson, *The University of Western Ontario*
- 2:30 **117 128.117**
Selective Attention and Emotion Self-Regulation Are Critical in Classroom Pro-Social Behavior. M. Levine*¹, R. J. Calvanio² and G. Mesibov³, (1)*SymTrend, Inc.*, (2)*Massachusetts General Hospital*, (3)*University of North Carolina at Chapel Hill*
- 3:30 **118 128.118**
Language, Auditory Attention/Working Memory, and Adaptive Outcome in Children with Autism Spectrum Disorders. K. K. Powell*¹, D. O. Black², G. L. Wallace², J. L. Sokoloff¹ and L. Kenworthy¹, (1)*Children's National Medical Center*, (2)*National Institute of Mental Health*, *National Institutes of Health*
- 3:30 **119 128.119**
The Impact of Bilingual Exposure on the Expressive Language of Children with Autism Spectrum Disorders. C. Hambly*¹ and E. Fombonne², (1)*Montreal Children's Hospital*, (2)*McGill University*
- 1:30 **120 128.120**
Lie-Telling, Theory of Mind, and Verbal Ability in Children with ASD. A. S. Li*¹, E. A. Kelley¹, A. D. Evans² and K. Lee², (1)*Queen's University*, (2)*University of Toronto*
- 2:30 **121 128.121**
Efficacy of a Prompted-Pointing Therapy in Improving Learning Behavior in Non-Speaking Children with Autism. G. M. Chen*¹, B. A. Ganzel¹, M. S. Goodwin² and M. K. Belmonte¹, (1)*Cornell University*, (2)*Massachusetts Institute of Technology*
- 3:30 **122 128.122**
Disruptions in Spontaneous Language in HFA: Indicators of Linguistic Processing Challenges. K. M. Belardi* and D. L. Williams, *Duquesne University*
- 1:30 **123 128.123**
Language Profiles in ASD, SLI, and ADHD. H. M. Geurts*¹ and M. Embrechts², (1)*University of Amsterdam*, (2)*Dr Leo Kannerhuis*
- 2:30 **124 128.124**
The Use of Eye-Tracking to Investigate a Language-Specific Deficit in Intermodal Processing in Children with An Autism Spectrum Disorder. L. Hancock*, J. Bebko and K. Wells, *York University*
- 3:30 **125 128.125**
Impact of Joint Attention Treatment on Children with Differing Language Abilities. K. A. Stickles*, T. Paparella and C. Kasari, *University of California, Los Angeles*
- 1:30 **126 128.126**
Referential Word Learning in Toddlers at Genetic Risk for Autism. T. Gliga*¹, M. Elsabbagh², K. Hudry³, S. Chandler⁴, T. Charman³ and M. Johnson², (1)*Centre for Brain and Cognitive Development*, (2)*Birkbeck, University of London*, (3)*Institute of Education, University of London*, (4)*Institute of Education*
- 2:30 **127 128.127**
Does Bilingualism Affect Language Development in Young Children with Autism?. K. Leadbitter*¹, K. Hudry², K. Temple³ and .. PACT Consortium¹, (1)*University of Manchester*, (2)*Institute of Education, University of London*, (3)*University of Newcastle*
- 3:30 **128 128.128**
How Early Do Parent Concerns about Development Predict Later Autism Diagnosis?. S. Ozonoff*¹, I. Cook², M. M. Hill¹, T. Hutman³, S. J. Rogers⁴, M. Sigman³, M. B. Steinfeld¹, S. Macari⁵ and G. S. Young¹, (1)*M.I.N.D. Institute, University of California at Davis Medical Center*, (2)*UC Davis*, (3)*University of California, Los Angeles*, (4)*M.I.N.D. Institute, University of California at Davis*, (5)*Yale University School of Medicine*
- 3:30 **129 128.129**
Diagnostic Stability and Outcome of Toddlers with Significant Cognitive Delays and ASD Symptoms. H. Boorstein*, A. D. Verbalis, M. Barton, S. Hodgson and D. Fein, *University of Connecticut*
- 1:30 **130 128.130**
Intensive Behavioural Intervention for Preschool-Age Children with Autism Spectrum Disorders: Some Retrospective Analyses. L. Thorne*¹, D. Fazio², C. T. Yu¹ and A. Cornick², (1)*University of Manitoba and St. Amant Centre*, (2)*St. Amant*
- 2:30 **131 128.131**
Longitudinal Improvements in the Quality of Joint Attention in Toddlers with Autism. K. Lawton* and C. Kasari, *University of California, Los Angeles*
- 3:30 **132 128.132**
Clinical Description of Preschoolers with Pervasive Developmental Disorder Not Otherwise Specified. A. Snow*¹, L. Lecavalier¹ and C. Albright², (1)*Ohio State University*, (2)*Developmental Assessment Program, Nationwide Children's Hospital*
- 1:30 **133 128.133**
The Effect of Teaching Attending to a Face on the Emergence of Joint Attention Behavior in Young Children with Autism Spectrum Disorders. T. Rovito Gomez*¹, I. L. Cohen² and L. McDonough³, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*, (3)*Brooklyn College, City University of New York*
- 2:30 **134 128.134**
Concurrent Predictors of Receptive and Expressive Language in Toddlers on the Autism Spectrum. S. Ellis-Weismer*, M. A. Gernsbacher, C. Karasinski, C. Erickson, S. Stronach and H. Sindberg, *University of Wisconsin-Madison*
- 3:30 **135 128.135**
Joint Attention, Play Behavior, and Language Abilities in Toddlers with ASD, Developmental Delay, and Typical Development. K. Burner*¹, J. Greenson¹, L. Elder¹, J. Lindsey¹ and G. Dawson², (1)*University of Washington*, (2)*Autism Speaks, UNC Chapel Hill*
- 1:30 **136 128.136**
Microstructure of Saccadic Behavior in High and Low-Risk Infants: Visual Scanning of Static Novel Faces. J. T. Elison*¹, J. C. Chappell¹, A. Sabatino¹ and J. Piven², (1)*University of North Carolina at Chapel Hill*, (2)*University of North Carolina*

Program

- 2:30 **137 128.137**
Measuring Treatment Outcome in Autism Preschools. A. Cariello*¹, J. Southwick¹, S. E. White¹, J. Dana¹, S. A. Baldwin¹, S. Stephens², C. Johnson³ and M. South¹, (1)*Brigham Young University*, (2)*Giant Steps Preschool*, (3)*Wasatch Mental Health*
- 3:30 **138 128.138**
Rapid Attention Shifting Deficits in Male Siblings of Autistic Probands. R. Hodges and A. J. Lincoln*, *Alliant International University*
- 3:30 **139 128.139**
Correlation of Autism Traits in Families of Children with Autism Spectrum Disorders. R. Luyster*¹, E. Hanson², N. Coggins³, M. Le³, J. Lomibao³, R. Travolta³, B. Winklosky³, E. Baroni⁴, A. Cangialose⁴, C. Davit², J. Doerr⁴, A. Fong⁴, K. Greenberg⁴, R. Hundley², R. Iturralde⁴, A. Johnston⁴, A. Lian⁴, A. O'Connor⁴, M. Shahab⁴, C. Tam⁴ and S. L. Santangelo¹, (1)*Harvard Medical School*, (2)*Children's Hospital*, (3)*Massachusetts General Hospital*, (4)*Children's Hospital Boston*
- 2:30 **140 128.140**
Parental History of Mood/Affective Disorders and Regression among Children with ASD: Results from AGRE Families. R. P. Goin-Kochel*, S. U. Peters and F. Scaglia, *Baylor College of Medicine*
- 3:30 **141 128.141**
An Examination of the Relationship Between Parent and Child Pragmatic Language in ASD Families Using HLM. J. Varley*, R. Bernier and J. Munson, *University of Washington*

Saturday May 9 – AM

7:00A- 1:30p	Registration (Normandie Lounge)			
7:30A-9:30A	Exhibits (Grand Ballroom Foyer)			
7:30A-8:30A	Coffee & Pastries (Normandie Lounge & Grand Ballroom Foyer)			
8:30A-9:30A	Keynote Address: Copy Number Variations (CNVs) In Autism: What Do They Mean? (Grand Ballroom)			
9A-1:00P	Poster Presentations V (Northwest Hall)			
9:30A-10:00A	Break (Northwest Hall and Normandie Lounge)			
10:00A-12:00P	Invited Educational Symposium: Molecular Genetics of Autism (Boulevard Room)	Oral Presentations: Neuropathology (Northwest Hall 1)	Oral Presentations: Emotion/Social Skills Intervention/Screening (Northwest Hall 2)	Oral Presentations: Longitudinal Studies/ Early Intervention (Northwest Hall 5)

Keynote Address

129 Copy Number Variations (CNVs) In Autism: What Do They Mean?

8:30 AM - 9:30 AM - Grand Ballroom

*Speaker: S. W. Scherer; The Hospital for Sick Children*8:30 **129.00** Copy Number Variations (CNVs) In Autism: What Do They Mean?."**Invited Educational Symposium
130 Molecular Genetics of Autism**

10:00 AM - 12:00 PM - Boulevard Room

*Organizer: J. Sutcliffe; Vanderbilt University**Speakers: P. Levitt¹M. W. State²N. C. Schanen³; (1)Vanderbilt University, (2)Yale University School of Medicine, (3)Nemours*

Twin and family studies have consistently indicated a substantial genetic component to autism etiology. The last few years have witnessed significant advances in our understanding of the genetic architecture underlying risk for this condition. The emerging picture reveals a level of heterogeneity far beyond what was previously predicted. Evidence points to a mix of both common and rare variation at a large number of genes as being involved. The emergence of copy number variation (CNV) as a major risk category highlights the role of highly penetrant rare variation. Increasing observations of more discrete point mutations in specific candidate loci extend the spectrum of rare variants that contribute to the overall susceptibility landscape. It is very likely that some individual susceptibility genes will contain both rare variants and lower penetrance common alleles that confer modest increases in relative risk. In this session, we will review different examples of loci that exemplify the range of allelic architecture that is now apparent in the autism genetics field.

10:00 **130.00**
Introductory Remarks.10:10 **130.01**
The Increasing Importance of Duplications of Chromosome 15q11.2-q13 in Autism Spectrum Disorders. N. C. Schanen*, Nemours10:35 **130.02**
Role of Rare Genetic Variants in Autism. M. W. State*, Yale University School of Medicine11:00 **130.03**
Enough May Be Enough - A Convergence of Genetic and Biological Evidence Identifying the MET Signaling Pathway as a Key Autism Risk Factor. P. Levitt* and D. B. Campbell, Vanderbilt University11:25 **130.04**
Obsessions On a Biomarker: Serotonin Genetics in Autism. J. Sutcliffe*, Vanderbilt University11:50 **130.05**
Discussion.

Oral Presentations

131 Neuropathology

10:00 AM - 12:00 PM - Northwest Hall Room 1

10:00 **131.00**
Potential Contributions of Developmental and Epilepsy-Associated Neuropathological Changes to Sudden, Unexpected Death in Four People with Chromosome 15 Duplication and Autism. W. T. Brown¹, T. Wisniewski¹, I. L. Cohen², E. London¹, M. J. Flory¹, I. Kuchna¹, K. Nowicki¹, J. Wegiel¹, S. Y. Ma¹, H. Imaki¹ and J. Wegiel¹, (1)New York State Institute for Basic Research in Developmental Disabilities, (2)NYS Institute for Basic Research in Developmental Disabilities10:20 **131.01**
GABAergic and Serotonergic Receptor Alterations in the Fusiform Gyrus in Autism. A. Oblak*, T. Gibbs and G. Blatt, Boston University School of Medicine10:40 **131.02**
Emerging Patterns of Neuronal Growth Desynchronization in Autism. J. Wegiel¹, I. Kuchna¹, K. Nowicki¹, J. Wegiel¹, S. Y. Ma¹, H. Imaki¹, T. Wisniewski¹, I. L. Cohen², E. London¹, M. J. Flory¹ and W. T. Brown¹, (1)New York State Institute for Basic Research in Developmental Disabilities, (2)NYS Institute for Basic Research in Developmental Disabilities11:00 **131.03**
BDNF-Akt-Bcl2 Anti-Apoptotic Signaling Pathway Is Compromised in the Brain of Autistic Children. X. Li¹, A. Sheikh¹, A. Chauhan¹, V. Chauhan¹, C. X. Gong¹, F. Liu¹, W. T. Brown² and M. Malik¹, (1)NYS Institute for Basic Research in Developmental Disabilities, (2)New York State Institute for Basic Research in Developmental Disabilities

Program

11:20 **131.04**
Increased Iba-1 Positive Microglial Cell Density and Somal Volume in the Autistic Dorsolateral Prefrontal Cortex. J. T. Morgan*, G. Chana, J. Buckwalter, E. Courchesne and I. P. Everall, *University of California, San Diego*

11:40 **131.05**
Expression Profiling of TLR Signaling Pathway Genes in Brain Tissue from Patients with Autism. C. A. Pardo, A. Azhagiri*, C. Lawler and A. F. Zea-Vera, *Johns Hopkins University School of Medicine*

Oral Presentations

132 Longitudinal Studies/Early Intervention

10:00 AM - 12:00 PM - Northwest Hall Room 5

10:00 **132.00**
Developmental Trajectory in ASD and Broader Autism Phenotype in the First Three Years of Life. R. Landa*¹ and E. Stuart², (1)*Kennedy Krieger Institute*, (2)*Johns Hopkins Univ. School of Public Health*

10:20 **132.01**
Longitudinal Change in Symptom Domains by ASD Severity Trajectories. K. Gotham*¹, A. Pickles² and C. Lord³, (1)*University of Michigan Autism & Communication Disorders Center (UMACC)*, (2)*University of Manchester*, (3)*University of Michigan*

10:40 **132.02**
Longitudinal Changes in Cognitive Ability in Male and Female Children with ASD. A. D. Verbalis*¹, H. Boorstein¹, J. Pandey², S. Hodgson¹, T. Dumont-Mathieu¹, M. Barton¹, J. Green¹ and D. Fein¹, (1)*University of Connecticut*, (2)*Children's Hospital of Philadelphia*

11:00 **132.03**
Long Term Stability of the Effects of Intensive ABA Intervention in Young Children with ASD in Italy. G. Doneddu*¹, P. M. Peruzzi¹, G. Saba¹, L. Ferretti¹, S. Marras¹ and R. Fadda², (1)*A.O.B. (Azienda Ospedaliera Brotzu)*, (2)*University of Cagliari*

11:20 **132.04**
Outcomes of Community-Based Inclusion Programming for Toddlers with ASD. A. Stahmer*¹, N. Akshoomoff², A. B. Cunningham² and C. Vattuone¹, (1)*Rady Children's Hospital*, (2)*University of California, San Diego*

11:40 **132.05**
Agreement Between Self-Report and Observational Measurement of the Use of Evidence-Based Practices in Community Early Intervention Programs for Children with Autism Spectrum Disorders. A. Stahmer*, S. Reed and C. Vattuone, *Rady Children's Hospital*

Oral Presentations

133 Emotion/Social Skills Intervention/Screening

10:00 AM - 12:00 PM - Northwest Hall Room 2

10:00 **133.00**
What Is Wrong with Emotion Processing in Autism?. D. Williams*¹ and F. Happé², (1)*University College London*, (2)*Institute of Psychiatry, KCL*

10:20 **133.01**
Temperament as a Predictor of Variability in Adjustment among Higher Functioning Children with Autism. H. A. Henderson*¹, C. Schwartz², L. Mohapatra¹, N. Kojkowski¹, A. P. Inge³, C. Hileman¹ and P. C. Mundy⁴, (1)*University of Miami*, (2)*Yale University*, (3)*University of North Carolina at Chapel Hill*, (4)*UC Davis*

10:40 **133.02**
Evidence-Based Friendship Training for Adolescents with Autism Spectrum Disorders: Replication and Follow-up Study of the UCLA PEERS Program. E. Laugeson*, A. Gantman, A. R. Dillon, C. Mogil and F. Frankel, *UCLA Semel Institute for Neuroscience & Human Behavior*

11:00 **133.03**
Examining Predictors of Treatment Success in a Parent-Assisted Social Skills Training Program for Teens with Autism Spectrum Disorders: The UCLA PEERS Program. A. R. Dillon*, E. Laugeson, A. Gantman and F. Frankel, *UCLA Semel Institute for Neuroscience & Human Behavior*

11:20 **133.04**
The Collaborative Puzzle Game: An Interactive Activity for Fostering Collaboration in Children with Autism Spectrum Disorder. A. Battocchi*¹, G. Esposito², A. Ben-Sasson³, E. Gal³, F. Pianesi¹, P. Venuti² and P. L. Weiss³, (1)*Fondazione Bruno Kessler*, (2)*University of Trento*, (3)*University of Haifa*

11:40 **133.05**
Catching and Studying Autism Early: The 1-Year Well-Baby Check-up Approach. K. Pierce*¹, C. Carter¹, M. Weinfeld¹, J. Desmond¹, E. Courchesne¹, R. Hazin¹, R. Bjork² and N. Schork³, (1)*University of California, San Diego*, (2)*Rady Children's Hospital*, (3)*Scripps Research Institute*

134 Poster V

9:00 AM - 1:00 PM - Northwest Hall

Cognition

11:00 **1** **134.01**
Are Standard Scores Higher on the New Vineland?. K. N. Hurd*¹, A. Perry² and H. E. Flanagan¹, (1)*York University*, (2)*Thistletown Regional Centre*

12:00 **2** **134.02**
Linking Low-Level Visual Processing Strategies to Higher-Level Processing Abnormalities in Autism Spectrum Conditions. C. A. Palmer*, K. Plaisted Grant and G. J. Davis, *University of Cambridge*

10:00 **3** **134.03**
Local Precedence with Intact Global-Level Processing and Superior Simple Auditory Stimuli Processing Abilities in Adolescents with Autism. Y. Xiang and L. Wang*, *Beijing Normal University*

11:00 **4** **134.04**
An Eye-Tracking Study: The Effect of Task on Visual Attention to Faces in Autism. S. F. Hannigen*¹, C. A. Best¹, K. Rump¹, N. J. Minshew² and M. S. Strauss¹, (1)*University of Pittsburgh*, (2)*University of Pittsburgh School of Medicine*

12:00 **5** **134.05**
Are Pictures Worth a Thousand Words? Testing the Validity and Reliability of the Pictorial Infant Communication Scale. A. Grivas Matejka*¹, T. Charman² and J. A. Burack¹, (1)*McGill University*, (2)*Institute of Education, University of London*

10:00 **6** **134.06**
Is There Any Early Developmental Factor That Verbal Acquisition Will Appear in Children with Autism?. J. Almeida*, R. L. Abreu, C. Café, S. Mougá, T. S. Miguel, C. Lobo, F. Duque and G. Oliveira, *Hospital Pediátrico de Coimbra*

11:00 **7** **134.07**
Evaluation of Child and Treatment Variables Related to Communication Outcomes Using the Picture Exchange Communication System. J. Koudys¹, K. McFee*¹, J. Bebko¹ and A. Perry², (1)*York University*, (2)*Thistletown Regional Centre*

- 12:00 **8 134.08**
Look at Mommy: Attention-Related Communication in Mothers of Children at Risk for Autism. K. Jakubowski* and J. M. Iverson, *University of Pittsburgh*
- Communication/Play*
- 12:00 **9 134.09**
A Longitudinal Study of the Spontaneous Initiation of Vocal and Gestural Communication in Infants at Heightened Risk for Autism. B. M. Winder*¹, S. Poulos-Hopkins¹, M. V. Parladé², R. H. Wozniak¹ and J. M. Iverson², (1)*Bryn Mawr College*, (2)*University of Pittsburgh*
- 10:00 **10 134.10**
Conversation in High-Functioning Autism: An Investigation of Gaze and Prosody during Face-to-Face Interaction. A. Nadig*¹, K. Bosshart¹, H. Shaw¹ and S. Ozonoff², (1)*McGill University*, (2)*M. I.N.D. Institute, University of California at Davis Medical Center*
- 11:00 **11 134.11**
Parent Report of Social Communication Milestones in Very Young Children with Autism Spectrum Disorders. S. Shumway*¹, A. Thurm¹ and A. M. Wetherby², (1)*National Institute of Mental Health, National Institutes of Health*, (2)*Florida State University*
- 12:00 **12 134.12**
Vocabulary in 2-Year-Olds with Autism Spectrum Disorder: a Magnified Verb Problem?. J. Parish-Morris*¹, R. Luyster², H. Tager-Flusberg³, K. Hirsh-Pasek¹ and R. M. Golinkoff⁴, (1)*Temple University*, (2)*Harvard Medical School*, (3)*Boston University School of Medicine*, (4)*University of Delaware*
- 10:00 **13 134.13**
Early Speech and Language Assessment in Toddlers with Autism. K. Stamper*¹, G. Dawson², N. Singh³, J. Greenson¹ and M. Sharda³, (1)*University of Washington*, (2)*Autism Speaks, UNC Chapel Hill*, (3)*National Brain Research Centre*
- 11:00 **14 134.14**
Building the Fundamentals for the Future: The Development of Early Communication in the First Two Years of Life. K. T. Beuker*¹, N. N. J. Rommelse² and J. K. Buitelaar¹, (1)*Radboud University Nijmegen Medical Centre, Nijmegen Centre for Evidence-Based Practice*, (2)*Karakter Child and Adolescent Psychiatry University Center*
- 12:00 **15 134.15**
Joint Attention of Children with Autism in Urban Early Childhood Center-Based Programs. C. Wong*¹, S. Booth and B. Gapinski, *Cleveland State University*
- 10:00 **16 134.16**
Relative Contributions of Speech and Gesture on the ADOS "Demonstration Task" in Adolescents with High-Functioning Autism. A. de Marchena* and I. M. Eigsti, *University of Connecticut*
- 11:00 **17 134.17**
Production of Wh-Questions in Young Children with Autism. A. Goodwin*¹, D. Fein and L. Naigles, *University of Connecticut*
- 12:00 **18 134.18**
Pretence in Children with High-Functioning Autism: How 'playful' Is Their Play?. J. M. Mifsud*¹, R. Kelly¹, C. Dissanayake² and S. R. Leekam³, (1)*Olga Tennison Autism Research Centre*, (2)*La Trobe University*, (3)*University of Durham*
- 12:00 **19 134.19**
Correlation Between Play and Turn-Taking in Young Children with Autism. R. G. Lieberman*¹, P. Yoder² and A. Scott³, (1)*Peabody College, Vanderbilt University*, (2)*Vanderbilt University*, (3)*Hume-Fogg Magnet School*
- 10:00 **20 134.20**
Affective Signaling of Children with Autism: Listeners Prefer the Laughs of Children with Autism. W. J. Hudenko* and M. A. Magenheimer, *Ithaca College*
- Brain Structure & Function*
- 11:00 **21 134.21**
The Role of Intersensory Redundancy in the Typical Development of Social Orienting across Infancy: a New Hypothesis for Autism. J. T. Todd, L. E. Bahrick*¹, I. Castellanos, B. M. Sorondo, M. Vaillant-Molina and M. A. Argumosa, *Florida International University*
- 12:00 **22 134.22**
The Impact of the Brain Overgrowth in Autism on Inter-Hemispheric Connectivity. J. D. Lewis*¹, R. J. Theilmann², A. J. Lincoln³ and J. Townsend², (1)*Montreal Neurological Institute, McGill University*, (2)*University of California, San Diego*, (3)*Alliant International University*
- 10:00 **23 134.23**
Functional Connectivity Abnormalities during Self-Referential Cognitive Processing in Autism Spectrum Conditions. M. V. Lombardo*¹, B. Chakrabarti¹, E. Bullmore², S. A. Sadek¹, G. Pasco³, S. J. Wheelwright⁴, J. Suckling⁵, S. Baron-Cohen⁴ and M. R. C. AIMS Consortium⁶, (1)*University of Cambridge, Autism Research Centre*, (2)*Brain Mapping Unit, University of Cambridge*, (3)*Autism Research Centre, Department of Psychiatry, University of Cambridge*, (4)*University of Cambridge*, (5)*Brain Mapping Unit, Department of Psychiatry, University of Cambridge*, (6)*University of Cambridge; Institute of Psychiatry, King's College London; University of Oxford*
- 11:00 **24 134.24**
Transverse Relaxation Time Imaging of Frontal Lobe White Matter in Autism. R. Spring*¹, N. Rajakumar¹, Y. Gagnon¹, D. Drost¹ and R. Nicolson², (1)*University of Western Ontario*, (2)*The University of Western Ontario*
- 12:00 **25 134.25**
Brain Function and Connectivity during Attention Orienting in Autism Spectrum Disorder. J. McGrath*¹, K. Johnson², H. Garavan², M. Gill¹, C. Ecker³ and L. Gallagher¹, (1)*Trinity College Dublin*, (2)*Trinity College Institute of Neuroscience*, (3)*King's College London, Institute of Psychiatry*
- 10:00 **26 134.26**
White Matter Connectivity and Autism Clinical Symptomatology: a Diffusion MRI Study. A. Bargiacchi*¹, A. Cachia¹, N. Chabane², N. Boddaert³, A. Philippe⁴, F. Brunelle⁴, M. C. Mounen², Y. Samson⁵, L. Laurier¹ and M. Zilbovicius¹, (1)*Research Unit U797 "Neuroimaging and Psychiatry", CEA - INSERM*, (2)*Hospital Robert Debre*, (3)*Hospital Necker*, (4)*Necker Hospital*, (5)*Pitié-Salpêtrière Hospital*
- 11:00 **27 134.27**
Reduced Intrinsic Connectivity in the Default Network in Adolescents with Autism Spectrum Disorders. S. J. Weng*¹, S. Peltier, J. L. Wiggins, M. Carrasco, C. Lord and C. S. Monk, *University of Michigan*
- 12:00 **28 134.28**
Neural Basis of Action and Intention Understanding in Autism and Typical Development. N. Hatt*¹, C. Colombi², C. D. Saron³, S. J. Rogers⁴ and S. M. Rivera³, (1)*University of California, Davis*, (2)*UMACC*, (3)*University of California at Davis*, (4)*M.I.N.D. Institute, University of California at Davis*

Program

12:00 **29 134.29**

The Potential Contribution of the Left IFG to the Autistic Phenotype: a Case Study of Monozygotic Twins. K. A. Kellett*, J. L. Stevenson, B. A. Vlach, H. H. Goldsmith and M. A. Gernsbacher, *University of Wisconsin-Madison*

10:00 **30 134.30**

Chemical Shift Imaging and Single Voxel Magnetic Resonance Spectroscopy in High Functioning School-Aged Boys with ASD and Typical Development. E. Ratai¹, N. Shetty*¹, M. Herbert¹ and A. P. Ringer², (1)*Massachusetts General Hospital*, (2)*University of California, Berkeley*

11:00 **31 134.31**

Hemispheric Lateralisation of Neural Responses to Faces in Individuals with Autism: a Magnetoencephalographic Study. S. Braeutigam*¹, A. Kylläinen² and A. Bailey¹, (1)*University of Oxford*, (2)*University of Tampere*

12:00 **32 134.32**

EEG Study of Mirror Neuron Functioning in Infants with Autism Spectrum Disorder. H. Roeyers*¹, L. Ruysschaert¹, P. Warreyn¹, G. Pattyn¹, A. Handl² and J. R. Wiersema¹, (1)*Ghent University*, (2)*Max Planck Institute for Human Cognitive and Brain Sciences*

10:00 **33 134.33**

Event-Related Potential Study of the Effects of Repetitive Transcranial Magnetic Stimulation on Novelty Processing in Autism. M. F. Casanova*, E. M. Sokhadze, L. Sears and J. M. Baruth, *University of Louisville*

11:00 **34 134.34**

Music and Emotion in Autism: a fMRI Study. S. De Falco, A. Caria, P. Venuti* and G. Esposito, *University of Trento*

12:00 **35 134.35**

Neural Specialization for Faces and Letters in Autism. J. McPartland*¹, J. Wu¹, R. T. Schultz² and A. Klin³, (1)*Yale Child Study Center*, (2)*Children's Hospital of Philadelphia and the University of Pennsylvania*, (3)*Yale University School of Medicine*

10:00 **36 134.36**

When the Archeologist's Career Ended in Ruins: An fMRI Study of Pun Comprehension in Autism. H. M. Wadsworth*¹, L. G. Klinger², M. R. Klinger² and R. K. Kana¹, (1)*University of Alabama at Birmingham*, (2)*University of Alabama*

11:00 **37 134.37**

Atypical Activity in a Left Hemisphere Response Selection System in Autism. T. A. Zeffiro*¹, I. Soulières² and L. Mottron², (1)*Neural Systems Group, Massachusetts General Hospital*, (2)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*

12:00 **38 134.38**

Mirror Neuron System Activation in Autism in Response to Transitive and Intransitive Actions. C. Colombi*¹, C. D. Saron², M. Beransky², Y. Takarae³, G. Vivanti⁴, A. Nadig⁵, S. M. Rivera², Z. Champion-Fritz⁶, S. Ozonoff⁴ and S. J. Rogers⁷, (1)*University of Michigan*, (2)*University of California at Davis*, (3)*Center for Mind and Brain, UC Davis*, (4)*M.I.N.D. Institute, University of California at Davis Medical Center*, (5)*McGill University*, (6)*UC Davis*, (7)*M.I.N.D. Institute, University of California at Davis*

12:00 **39 134.39**

Neural Responsivity to Social Rewards and Mirror Neuron System Activity in Children with and without Autism. A. A. Scott*, S. Bookheimer and M. Dapretto, *University of California, Los Angeles*

10:00 **40 134.40**

fMRI Investigation of Sustained Attention and Sensorimotor Synchronization in Children and Adolescents with Autistic Spectrum Disorder. C. Murphy*¹, A. Christakou¹, E. Daly², P. Johnston¹, D. Spain¹, D. Murphy¹, K. Rubia¹ and M. R. C. AIMS Consortium³, (1)*King's College London, Institute of Psychiatry*, (2)*Institute of Psychiatry, King's College London*, (3)*Institute of Psychiatry, London: University of Oxford; University of Cambridge, United Kingdom*

11:00 **41 134.41**

Response Monitoring on a Face Processing Task and Its Relation to the ERN. C. Hileman*¹, C. Schwartz², M. Jaime¹, L. C. Newell³, P. C. Mundy⁴ and H. A. Henderson¹, (1)*University of Miami*, (2)*Yale University*, (3)*Indiana University of Pennsylvania*, (4)*UC Davis*

12:00 **42 134.42**

A Mu Rhythm View of Neurofeedback Training Effects of Face Processing Impairments in Autism. J. M. Bai*¹, O. R. Aragon², A. Moore³, H. A. Pelton³, A. Anaya³ and J. A. Pineda³, (1)*University of Illinois at Urbana-Champaign and University of California, San Diego*, (2)*California State University at San Marcos*, (3)*University of California, San Diego*

10:00 **43 134.43**

Mapping the Developmental Trajectory of Audio-Visual Integration Using High-Density Electrophysiology. S. Molholm*¹, A. B. Brandwein¹, H. Gomes² and J. J. Foxe², (1)*The Children's Research Unit (CRU), Program in Cognitive Neuroscience, City College of New York*, (2)*City College of New York*

11:00 **44 134.44**

Subphenotyping of Autism Spectrum Disorders Using Auditory Event-Related Potentials. L. M. Marcelino*¹, M. Beransky¹, C. Colombi², T. Riggins³, D. M. Horton¹, L. Deprey⁴, T. Kenet⁵, S. J. Rogers⁶, S. M. Rivera¹ and C. D. Saron¹, (1)*University of California at Davis*, (2)*UMACC*, (3)*University of Maryland*, (4)*UC Davis Medical Center*, (5)*Massachusetts General Hospital*, (6)*M.I.N.D. Institute, University of California at Davis*

12:00 **45 134.45**

Electrophysiological Investigation of Auditory Processing in Infants at Risk for Autism Spectrum Disorders or Language Impairment. T. Augenstein*¹, V. Vogel-Farley¹, C. A. Nelson¹, H. Tager-Flusberg², L. M. Casner³ and L. Kasparian², (1)*Children's Hospital Boston*, (2)*Boston University School of Medicine*, (3)*Boston University*

10:00 **46 134.46**

Task-Evoked Pupillary Response to Social Stimuli: Hypoactivation in Autism. J. E. Bedford*¹, J. T. Elison², H. F. Levin³, J. Piven¹ and J. Bodfish², (1)*University of North Carolina*, (2)*University of North Carolina at Chapel Hill*, (3)*Guilford College*

Epidemiology/Biomarkers/Genetics

11:00 **47 134.47**

Environmental Risk Factors and ASD: Case-Control Study in Spain. C. Martín-Arribas*¹, P. García Primo¹, E. García Andrés¹, M. Morueco Alonso², J. Hernández Rodríguez³, M. M. Herraiz García⁴, L. Herraiz García⁴, V. Martín⁵, Z. Guisuraga⁴, J. Santos Borbujo⁴, B. Mongil⁴, C. Domínguez⁴, P. Palomino⁶, R. Canal-Bedia⁵, R. Vidal⁶, S. Diez⁷ and M. Posada de la Paz¹, (1)*Carlos III Health Institute. Rare Diseases Research Institute.*, (2)*Fundacion Gaspar Hauser*, (3)*Universidad Autonoma de Madrid*, (4)*UNIVERSIDAD DE SALAMANCA*, (5)*Universidad de Salamanca*, (6)*Fundacion Jimenez Diaz*, (7)*ICTJA-CSIC Institut Ciències de la Terra*

- 12:00 **48 134.48**
Associations Between Early Measures of Medical Complications and Neurobehavioral Integrity with Later Dimensional Measures of Autism Traits in NICU Infants. I. L. Cohen^{*1}, B. Z. Karmel¹, J. M. Gardner¹, E. M. Lennon¹, L. D. Swensen¹ and T. Rovito Gomez², (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*New York State Institute for Basic Research in Developmental Disabilities*
- 12:00 **49 134.49**
Alterations in Lipid Metabolism and Anti-Oxidant Status as Specific Biomarkers of Autism Plasma. D. B. Goodenowe^{*1}, E. Pastural¹, Y. Lu¹, W. Jin¹, D. Heath¹, R. Friend-Heath¹, M. Fisk² and P. L. Wood³, (1)*Phenomenome Discoveries*, (2)*Jonty Foundation*, (3)*Phreedom Pharma Inc*
- 10:00 **50 134.50**
Diagnosis and Treatment of Catatonia in Autism: Cerebrospinal Fluid Neurotransmitter Findings and Treatment Response: Role for New Therapeutic Options. M. Chez^{*1}, E. Bell², S. J. Spence³, R. G. Robinson⁴ and K. Hyland⁵, (1)*Sutter Neuroscience Institute, Sacramento*; *UC Davis Medical Center*, (2)*Cure Autism Now*, (3)*NIH*, (4)*Descanso Medical Center*, (5)*Medical Neurogenetics*
- 11:00 **51 134.51**
Assessment of a Biomarker of Prenatal Mercury Immunotoxicity: a Cross-Sectional Study. J. F. Nyland^{*1}, S. B. Wang², E. C. O. Santos³, A. M. Ventura³, J. M. de Souza³ and E. K. Silbergeld², (1)*University of South Carolina School of Medicine*, (2)*Johns Hopkins Bloomberg School of Public Health*, (3)*Institute Evandro Chagas*
- 12:00 **52 134.52**
Parental Perception of the Causes of Autism Spectrum Disorders with An Emphasis on Genetic Factors. V. Chirdkiatgumchai^{*}, N. Ruangdaraganon, R. Roongpraiwan, T. Sombuntham, P. Rojmahamongkol and R. Prasertchai, *Faculty of Medicine, Ramathibodi Hospital, Mahidol University*
- 10:00 **53 134.53**
The Etiology of Social and Nonsocial Components of Autistic Behavior in Young Twins. L. R. Edelson^{*1}, A. Ronald² and K. J. Saudino¹, (1)*Boston University*, (2)*Birkbeck College, University of London*
- 11:00 **54 134.54**
Plasma Oxytocin Variation in Families with Children with Autism Spectrum Disorders. S. Jacob^{*}, C. S. Carter, P. Suppatkul, C. W. Brune, H. Pournajafi-Nazarloo and E. H. Cook, *University of Illinois at Chicago*
- Medical*
- 12:00 **55 134.55**
Oxytocin Treatment to Improve Social Cognition in Young People with Autism. A. J. Guastella^{*1}, S. Einfeld¹, K. M. Gray², N. Rinehart², T. Lambert¹ and B. J. Tonge², (1)*University of Sydney*, (2)*Monash University*
- 10:00 **56 134.56**
Social Processing in Autism Spectrum Disorder versus Agenesis of the Corpus Callosum. R. Booth^{*1} and F. Happé², (1)*Institute of Psychiatry, King's College London*, (2)*Institute of Psychiatry, KCL*
- 11:00 **57 134.57**
Mommy, My Ear Hurts: Effects of Ear Infections, Antibiotics in Children with Autism. N. Adams^{*} and E. M. Griffith, *University of Alabama at Birmingham*
- 12:00 **58 134.58**
Characterization of Children with Epilepsy and Autistic Disorder. H. Wood^{*1}, T. Humphries², J. Brian³ and W. Roberts², (1)*University of Toronto and Hospital for Sick Children*, (2)*University of Toronto*, (3)*Hospital for Sick Children & Bloorview Kids Rehab*
- 12:00 **59 134.59**
Persistence of the Primitive Visual Rooting Reflex in Subjects with Autism Spectrum Disorders and Intellectual Disability. E. J. Mulder¹, A. de Bildt¹, N. D. J. van Lang², S. A. J. de With¹, G. M. Anderson^{*3} and R. B. Minderaa¹, (1)*University Medical Center Groningen*, (2)*Leiden University Medical Center / Curium*, (3)*Yale University School of Medicine*
- 10:00 **60 134.60**
Early Neurological Impairments in Children with Autism Spectrum Disorders. N. Gaddour^{*}, A. Bedoui, N. Jabnoui, S. Missaoui and L. Gaha, *University of Monastir*
- 11:00 **61 134.61**
Pharmacotherapy in Children with ASD: Baseline Findings from the New Jersey Autism Study. W. Zahorodny^{*}, B. Peng and T. Patel, *University of Medicine and Dentistry of New Jersey*
- 12:00 **62 134.62**
Neuro-Developmental Disabilities Screening and Assessment in Uganda. A. Kakooza-Mwesige^{*1} and J. K. Grether², (1)*Makerere College of Health Sciences*, (2)*Sequoia Foundation*
- 10:00 **63 134.63**
Randomized Placebo-Controlled Trial of Hyperbaric Oxygenation Therapy. D. Granpeesheh¹, J. Bradstreet², J. Tarbox^{*1}, D. R. Dixon¹, S. Allen¹ and A. E. Wilke¹, (1)*Center for Autism and Related Disorders*, (2)*International Child Development Resource Center*
- 11:00 **65 134.65**
Three-Dimensional Photogrammetric Analysis of Soft Tissue Facial Morphology in Autism. G. Emgushova^{*1}, R. T. McIntosh¹, P. Gautam¹, S. J. Spence¹, A. Thurm², S. E. Swedo², S. Mitchell¹, T. C. Hart¹ and D. L. Domingo¹, (1)*NIH*, (2)*National Institute of Mental Health, National Institutes of Health*
- Screening & Diagnosis*
- 12:00 **66 134.66**
Facilitating Pediatrician Buy-in: a Technological Solution for Integrating An Autism Screener into the Medical Office Work Flow. R. I. Arriaga^{*1}, O. Ousley², B. Van den Bogaard³, S. Kannan³, G. D. Abowd¹ and J. M. Rehg³, (1)*Georgia Institute of Technology*, (2)*Emory University*, (3)*Georgia Tech*
- 10:00 **67 134.67**
Association of Insurance Type and Cost, Use, Accessibility, and Outcomes of Services for Children with ASD. A. M. Young^{*1}, L. A. Ruble¹ and J. H. McGrew², (1)*University of Kentucky*, (2)*Indiana University - Purdue University Indianapolis*
- 11:00 **68 134.68**
Children with Special Health Care Needs: Evaluating Care Coordination Services for Children Diagnosed with An Autism Spectrum Disorder. C. Burns^{*}, M. Orlando, S. Sulkes, D. W. Mruzek, K. O'Mara, E. Hebert, S. Nichols, L. N. Barzotto, M. Ryan, D. Vogler-Elias, J. Roesser and P. Gemmell, *University of Rochester Medical Center*
- 12:00 **69 134.69**
Trends in Diagnostic Testing Practices for ASD in a Population-Based Sample from Philadelphia County. E. Giarelli¹, L. C. Lee^{*2}, J. Pinto-Martin¹, S. E. Levy³ and R. Meade¹, (1)*University of Pennsylvania*, (2)*Johns Hopkins Univ. School of Public Health*, (3)*Children's Hospital of Philadelphia*

Program

- 10:00 **70 134.70**
Level 2 Pervasive Developmental Disorder Rating Scales. M. Norris* and L. Lecavalier, *Ohio State University*
- 11:00 **71 134.71**
A Training Model for the Diagnosis of Autism in Community Pediatric Practice. Z. Warren*¹, W. Stone¹ and Q. Humberd², (1)*Vanderbilt University*, (2)*Blanchfield Army Community Hospital*
- 12:00 **72 134.72**
Changes in Diagnostic Testing Practices for the Autism Spectrum Disorders (ASDs) in Four US Populations. C. E. Rice*¹, J. Baio¹, M. J. Morrier², L. D. Wiggins³, N. Hobson⁴, L. C. Lee⁵, J. S. Nicholas⁶, L. A. Carpenter⁶ and S. Pettygrove⁷, (1)*National Center on Birth Defects and Developmental Disabilities*, (2)*Emory University*, (3)*Centers for Disease Control and Prevention*, (4)*Research Triangle Institute*, (5)*Johns Hopkins Univ. School of Public Health*, (6)*Medical University of South Carolina*, (7)*University of Arizona*
- 10:00 **73 134.73**
The Each Child Study: Early Autism Screening in a Pediatric Practice. J. Miller*, T. P. Gabrielsen, M. Villalobos, B. Segura and N. Wahmhoff, *University of Utah*
- 11:00 **74 134.74**
Using the Spanish Version of MCHAT in a Population Based Autism Screening Program. R. Canal-Bedia*¹, M. V. Martin Cilleros¹, Z. Guisuraga Fernández¹, L. Herraiez¹, M. Herraiez¹, A. Martinez¹, P. Garcia-Primo², M. J. Ferrarí², J. Santos Borbujo³ and M. Posada de la Paz², (1)*Universidad de Salamanca*, (2)*Carlos III Health Institute. Rare Diseases Research Institute.*, (3)*UNIVERSIDAD DE SALAMANCA*
- 12:00 **75 134.75**
Clinical Practices Regarding Autism Spectrum Disorders among General Practitioners in Karachi, Pakistan and How They Compared to Practices in the United States. K. Ibrahim*¹ and M. H. Rahbar², (1)*Michigan State University*, (2)*University of Texas Medical School at Houston*
- 10:00 **76 134.76**
Evaluation of a Population Screening Program Based on Paediatrician and Families Degree of Satisfaction. L. Boada*, P. Garcia-Primo, E. Garcia-Andrés, E. Touriño, C. Martin-Arribas and M. Posada de la Paz, *Carlos III Health Institute. Rare Diseases Research Institute.*
- 12:00 **78 134.78**
A Model for Expanding Community-Based Autism Assessment Services. K. Dillon, U. M. Cellupica* and G. Friedman, *Children's Treatment Network of Simcoe York*
- 12:00 **79 134.79**
Correlates of Specialized Public School Attendance among Children with Autism Spectrum Disorders. A. M. Daniels*¹, C. Anderson², K. Law² and P. Law², (1)*Johns Hopkins Bloomberg School of Public Health*, (2)*Kennedy Krieger Institute*
- 10:00 **80 134.80**
Mercury and Autism: What Do We Know? What Don't We Know?. I. Hertz-Picciotto*¹ and I. N. Pessah², (1)*University of California at Davis*, (2)*M.I.N.D. Institute, University of California at Davis, CCEH*
- 11:00 **81 134.81**
Validating a Japanese Version of the Ritvo Autism and Asperger's Diagnostic Scale. K. Matsumoto*¹, K. Tsuchiya¹, M. Tsujii² and R. A. Ritvo³, (1)*Hamamatsu University School of Medicine*, (2)*Chukyo university*, (3)*Yale University School of Medicine*
- 12:00 **82 134.82**
Two-Stage Autism Screening. R. L. Hefter*, M. A. Gernsbacher, E. K. Schweigert and H. H. Goldsmith, *University of Wisconsin-Madison*
- 10:00 **83 134.83**
The Influence of Gender and Speech on Autism Symptomatology as Measured by the ADI-R. A. V. Hall*¹, R. K. Abramson², S. Ravan², M. L. Cuccaro³, J. R. Gilbert³, M. A. Pericak-Vance³ and H. H. Wright², (1)*Univ. S. Carolina Sch. Public Health*, (2)*University of South Carolina School of Medicine*, (3)*University of Miami Miller School of Medicine*
- 11:00 **84 134.84**
The Effects of Age, Gender, Race, and Level of Speech on Problem Behaviors in a Sample of Children and Adolescents. H. H. Wright*¹, A. V. Hall¹, S. Ravan¹, M. L. Cuccaro³, J. R. Gilbert³, M. A. Pericak-Vance³ and R. K. Abramson¹, (1)*University of South Carolina School of Medicine*, (2)*Univ. S. Carolina Sch. Public Health*, (3)*University of Miami Miller School of Medicine*
- 12:00 **85 134.85**
Diagnostic Utility of Adaptive Behavior in Children with a Referral Question of ASD. E. H. Sheridan*, E. M. Griffith and S. Mrug, *University of Alabama at Birmingham*
- 10:00 **86 134.86**
The Passage Rate on Each Item of the M-CHAT for Children with ASD: The Cultural Differences Between Japan and USA. N. Inada*, T. Koyama and Y. Kamio, *National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health*
- 11:00 **87 134.87**
Adding ESCS Measures of Initiating and Responding to Joint Attention to the M-CHAT. S. Anderson*, M. Khowaja, D. L. Robins and L. Adamson, *Georgia State University*
- 12:00 **88 134.88**
Parent-Reported Concerns in Early Development that may Predict Specific Pervasive Developmental Disorder (PDD) Diagnoses. C. A. McMorris*¹, J. H. Schroeder² and J. Bebko², (1)*York University, Toronto*, (2)*York University*
- 12:00 **89 134.89**
Age at First Diagnosis of An Autism Spectrum Disorder in Different Regions of Canada. H. Ouellette-Kuntz¹, H. Coo*¹, M. Lam¹, C. T. Yu², M. E. S. Lewis³, D. Dewey⁴, F. Bernier⁵, M. Breitenbach⁶, A. Chudley⁷ and J. J. A. Holden¹, (1)*Queen's University*, (2)*University of Manitoba and St. Amant Centre*, (3)*University of British Columbia*, (4)*University of Calgary*, (5)*Alberta Children's Hospital*, (6)*Department of Education and Early Childhood Development*, (7)*University of Manitoba*
- Epidemiology*
- 11:00 **91 134.91**
Prevalence Rates of PDD among Children at the English Montreal School Board. T. Lazoff¹, T. Piperni², E. Clarke², L. Lewis² and E. Fombonne*³, (1)*Montreal Children's Hospital*, (2)*English Montreal School Board*, (3)*McGill University*
- 10:00 **90 134.90**
Screening for Autism and Developmental Disorders in Toddlers from a Lower Socio-Economic Strata Using the MCHAT and ASQ: Fail Rates by Demographic Characteristics. G. C. Windham*¹, K. S. Smith¹, N. J. Rosen¹, J. K. Grether¹, R. B. Coolman² and S. J. Harris², (1)*California Department of Public Health*, (2)*Santa Clara Valley Health and Hospital System*
- 12:00 **92 134.92**
Autistic Diagnosis in China – An Investigation in North China Over 16 Years. C. Y. Wang*, *Nankai University*

- 10:00 **93 134.93**
Trends in Prevalence of ASD Diagnosis in a Large Health Care Population in the U.S. P. Bernal*, L. Croen and C. Yoshida, *Kaiser Permanente*
- 11:00 **94 134.94**
Early Behaviors Linked to Later Autism Spectrum Disorders in NICU Infants. J. M. Gardner*, B. Z. Karmel¹, L. D. Swensen¹, I. L. Cohen¹, E. M. Lennon¹, P. M. Kittler¹, R. L. Freedland¹, M. J. Flory² and E. London², (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*New York State Institute for Basic Research in Developmental Disabilities*
- 12:00 **95 134.95**
Comparison of Diagnostic Classifications Using the Original and Revised ADOS Algorithms in Individuals with Fragile X Syndrome. S. W. Harris*, B. Goodlin-Jones¹, E. Hare¹, A. Wesnousky¹, L. Cordeiro¹ and R. Hagerman², (1)*M.I.N.D. Institute, University of California at Davis Medical Center*, (2)*UC Davis*
- 10:00 **96 134.96**
The Autism Birth Cohort Study - Status and Future Plans. P. Surén*, M. Bresnahan², M. Hornig², K. K. Lie¹, T. Reichborn-Kjennerud¹, S. Schjølberg¹, D. Hirtz³, P. Magnus¹, E. Susser², C. Stoltenberg¹ and W. I. Lipkin², (1)*Norwegian Institute of Public Health*, (2)*Columbia University*, (3)*National Institutes of Health*
- 11:00 **97 134.97**
ASD and Autism in the Community. S. Woldoff*, L. Blaskey¹, S. Shin², J. Pinto-Martin² and D. S. Mandell³, (1)*Children's Hospital of Philadelphia*, (2)*University of Pennsylvania*, (3)*University of Pennsylvania School of Medicine*
- 12:00 **98 134.98**
Prevalence of Autism in a Psychiatric Inpatient Population. L. J. Lawer*, K. S. Branch¹, E. S. Brodtkin¹ and D. S. Mandell², (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*
- 12:00 **99 134.99**
Demographics and Diagnosis: Early Findings from the Autism Center of Excellence and Simons Simplex Collection Studies at UIC. J. Klaver*, M. Huerta, S. J. Guter and E. H. Cook, *University of Illinois at Chicago*
- 10:00 **100 134.100**
Epidemiological Research on Autism in Jamaica: a Preliminary Analysis of Existing Data and Future Research Plans. M. H. Rahbar*, M. Samms-Vaughan² and K. Brooks³, (1)*University of Texas Medical School at Houston*, (2)*The University of the West Indies*, (3)*Tropical Metabolism Research Institute*
- 11:00 **101 134.101**
Prenatal and Perinatal Risks Factors for Autism in China. X. Zhang¹ and L. Qi*, (1)*Tianjin Medical University*, (2)*UC Davis*
- Infants, Toddlers and Preschoolers*
- 12:00 **102 134.102**
Can Temperament Add to Our Understanding of Early Autism? Differences Between Toddlers Who Screen Positive for Autism v. Developmental Delay. M. Villalobos*, T. P. Gabrielsen and J. Miller, *University of Utah*
- 10:00 **103 134.103**
Early Signs of Autism Spectrum Disorder in One- and Two-Year-Olds. L. Ruysschaert*, M. Dereu, M. Meirsschaut, G. Pattyn, R. Raymaekers, I. Schietecatte, P. Warreyn and H. Roeyers, *Ghent University*
- 11:00 **104 134.104**
Early Book Sharing Behaviors in An Infant Sibling Study. E. B. Caronna*, E. Duursma², C. Shieh¹ and H. Tager-Flusberg³, (1)*Boston Medical Center, Boston University School of Medicine*, (2)*Boston Medical Center, Reach Out and Read National Center*, (3)*Boston University School of Medicine*
- 12:00 **105 134.105**
A Community Screening Program to Detect 1-Year-Old Infants at Risk of PDD's: Preliminary Results. F. Muratori*, A. Narzisi, S. Calderoni, A. Cesari, C. Grassi, A. Pitanti and R. Tancredi, *University of Pisa – Stella Maris Scientific Institute*
- 10:00 **106 134.106**
Can Early Signs of Autism Spectrum Disorders (ASD) Predict Social-Communicative, Play and General Development in Toddlers with and without ASD? M. Dereu*, M. Meirsschaut, G. Pattyn, R. Raymaekers, I. Schietecatte, P. Warreyn and H. Roeyers, *Ghent University*
- 11:00 **107 134.107**
Social Visual Engagement in the First Six Months of Life: The Role of Contingency. P. Lewis*, J. B. Northrup, W. Jones and A. Klin, *Yale University School of Medicine*
- 12:00 **108 134.108**
Clinical Characteristics of Children Diagnosed with Autism Spectrum Disorder as Toddlers (<3 yr) vs. as Preschoolers (3-5 yr). L. H. Shulman*, B. M. Burrows, M. R. Galdston, M. D. Valicenti-McDermott, R. Seijo, S. J. Goodman and D. J. Meringolo, *Albert Einstein College of Medicine*
- 12:00 **109 134.109**
Joint Attention in Young Children with Autism. S. Jara*, S. Tek, G. Jaffery, D. Fein and L. Naigles, *University of Connecticut*
- 10:00 **110 134.110**
A Comparison of Object Exploration Strategies Between Infant Siblings of Children with Autism and Typically Developing Infants at 6 Months of Age. A. Bhat*, K. Downing¹, J. Galloway² and R. Landa³, (1)*University of Connecticut*, (2)*University of Delaware*, (3)*Kennedy Krieger Institute*
- 11:00 **111 134.111**
A Comparison of Reaching Coordination and Arm Postures Between Infant Siblings of Children with Autism and Typically Developing Infants at 3 and 6 Months of Age. A. Bhat*, C. Wong¹, J. Galloway² and R. Landa³, (1)*University of Connecticut*, (2)*University of Delaware*, (3)*Kennedy Krieger Institute*
- 12:00 **112 134.112**
Joint Attention Revisited: Comparing the Joint Attention Profiles of Young Children with Autism Who Demonstrate Some Joint Attention Ability to MA-Matched Children with DD. S. Hurwitz*, *University of North Carolina at Chapel Hill*
- 10:00 **113 134.113**
A Quantitative Case Study of An Infant Later Diagnosed with Autism: Response Profiles at 1 and 4 Months. S. J. Sheinkopff*, B. M. Lester¹, L. L. LaGasse¹, R. Seifer², J. Liu¹, C. R. Bauer³, S. Shankaran⁴, H. Bada⁵ and A. Das⁶, (1)*The Warren Alpert Medical School of Brown University*, (2)*Warren Alpert Medical School of Brown University*, (3)*University of Miami*, (4)*Wayne State University*, (5)*University of Memphis*, (6)*Research Triangle Institute*
- 11:00 **114 134.114**
Gender Differences in Play in Pre-School Autism. C. Holt*, K. Leadbitter, J. Green and PACT Consortium, *University of Manchester*

Program

12:00 **115 134.115**

Improving the Pretend Play Skills of Preschoolers with Autism: The Effects of Video Modeling. E. Boudreau* and B. D'Entremont, *University of New Brunswick*

10:00 **116 134.116**

Enhancing Multidisciplinary Community Supports for Minority Preschool Children with Autistic Spectrum Disorders. V. Nanclares-Nogués*¹, E. Lin², C. Rolland¹, M. Cupoli¹ and M. E. Msall³, (1)*Advocate Illinois Masonic Medical Center*, (2)*University of Chicago*, (3)*University of Chicago Comer Children's Hospital*

11:00 **117 134.117**

Teaching Symbolic Play in the Classroom to Young Children with Autism. R. W. Saffo* and J. Woods, *Florida State University*

12:00 **118 134.118**

Active Engagement in Toddlers Referred for Possible Autism Spectrum Disorder. H. K. Pierce*, A. M. Wetherby, L. B. Swineford and L. Morgan, *Florida State University*

12:00 **119 134.119**

Assessing Visual Attention in 6-Month-Old Infants with Increased ASD Risk: The Question of Variability. K. M. Venema*¹, E. J. H. Jones¹, A. Glead², M. Elsabbagh³, M. Johnson³, A. M. Estes¹, G. Dawson⁴ and S. J. Webb¹, (1)*University of Washington*, (2)*Brigham Young University - Idaho*, (3)*Birkbeck, University of London*, (4)*Autism Speaks, UNC Chapel Hill*

10:00 **120 134.120**

Early Interaction Between Infants with Autism Spectrum Disorder (ASD) and Their Parents: Studies On Expression of Distress. G. Esposito*, P. Venuti and S. deFalco, *University of Trento*

11:00 **121 134.121**

Concurrent and Predictive Validity of the MacArthur-Bates Communicative Development Inventory for Children with Autism. V. Smith*¹ and P. Mirenda², (1)*University of Alberta*, (2)*University of British Columbia*

12:00 **122 134.122**

Triadic Attention Development across Contexts in Infant Siblings of Children with Autism Spectrum Disorders. C. Grantz*, L. Ibanez, W. Gealy and D. S. Messinger, *University of Miami*

Outcome Research

10:00 **123 134.123**

Outcomes in Adolescents and Adults with Autism. A. Levy*¹ and A. Perry², (1)*York University*, (2)*Thistletown Regional Centre*

11:00 **124 134.124**

Autism Interventions: Making the Evidence Base Accessible. B. A. Fleming*, *Research Autism*

12:00 **125 134.125**

Predictors of Daily Living Skills in Children with Autism Spectrum Disorder. L. Gomez*, T. Hutman and M. Sigman, *University of California, Los Angeles*

Epidemiology

10:00 **126 134.126**

Girls. vs. Boys on the Spectrum. S. Shin*¹, D. S. Mandell², S. Woldoff³ and L. Blaskey³, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*, (3)*Children's Hospital of Philadelphia*

11:00 **127 134.127**

The Influence of Culture on Caregiver Response When Completing the Modified Checklist for Autism in Toddlers (M-CHAT). K. B. Oliver*¹, D. L. Robins¹ and A. P. Hazzard², (1)*Georgia State University*, (2)*Emory University School of Medicine*

Family

12:00 **128 134.128**

The Concurrent Association Between Responsive Maternal Language and Children's Expressive Language Skills Is Moderated by the Specificity of the Mothers' Utterances. M. K. Cornwell*¹, M. J. Sheridan¹, M. Hernandez¹, A. Kemp Ray¹, M. Siller¹, T. Hutman² and M. Sigman², (1)*Hunter College of the City University of New York*, (2)*University of California, Los Angeles*

12:00 **129 134.129**

Who Joins Support Groups for Parents of Children with ASD? the Role of Attitudes and Beliefs. T. Clifford* and P. Minnes, *Queen's University*

10:00 **130 134.130**

A Comparison of Mother-Child and Father-Child Interactions during in-Home Play Sessions for Children with Autism. J. H. Elder¹, S. A. Donaldson¹, J. Kairalla², R. Bendixen³, G. Valcante³, R. Ferdig³, E. H. Self¹, P. J. Mutch*⁴, T. K. Murphy⁴, J. Walker³, C. Palau¹, M. Serrano¹ and T. Galante³, (1)*College of Nursing*, (2)*University of Florida*, (3)*University of Florida*, (4)*University of South Florida*

11:00 **131 134.131**

Maternal Influence on the Development of Mastery Motivation in Children with ASD. S. D. Rosenblum*, L. Wainwright and A. S. Carter, *University of Massachusetts Boston*

12:00 **132 134.132**

The Experience of Maternal and Family Care for Autism Over the Course of Pediatric Development. D. B. Nicholas*¹, P. McKeever², L. Zwaigenbaum³, R. MacCulloch⁴ and W. Roberts⁵, (1)*University of Calgary*, (2)*Bloorview Kids Rehab and Hospital for Sick Children/University of Toronto*, (3)*University of Alberta*, (4)*The Hospital for Sick Children*, (5)*University of Toronto*

10:00 **133 134.133**

The Effects of Parental Stress on the Emergence and Development of Joint Attention Behaviors in Infant Siblings of Children with Autism. J. Johnson*, E. A. Koterba, M. V. Parladé and J. M. Iverson, *University of Pittsburgh*

11:00 **134 134.134**

High-Atypicality Autism Siblings: a Prospective Study of Mother-Infant Interactions. M. W. Wan*¹, J. Green¹, M. Elsabbagh² and M. Johnson², (1)*University of Manchester*, (2)*Birkbeck, University of London*

12:00 **135 134.135**

Parents' Perspectives on Community-Based Mental Health Services for Children with Autism Spectrum Disorders. L. I. Brookman-Frazer*, *University of California, San Diego*

10:00 **136 134.136**

Feeding a Child with Autism Spectrum Disorder: Mothers' Strategies and Beliefs. L. G. Rogers*, J. Magill-Evans, G. Rempel and L. Zwaigenbaum, *University of Alberta*

11:00 **137 134.137**

Predictors of Insightfulness in Mothers of Children with Autism. S. L. Marshall*¹, T. Hutman¹, M. Siller² and M. Sigman¹, (1)*University of California, Los Angeles*, (2)*Hunter College of the City University of New York*

Sleep

12:00 **138 134.138**

Sleep and Behavior in Children with Autism Spectrum Disorders-Effects of Supplemental Melatonin. K. Adkins*¹, S. G. McGrew², W. Stone¹, K. L. Surdyka¹, S. E. Goldman¹, D. Wofford¹ and B. A. Malow¹, (1)*Vanderbilt University*, (2)*Monroe Carell Children's Hospital at Vanderbilt*

Saturday May 9 – PM

12:00P-1:00P	Box Lunches	Normandie Lounge	
1:00-3:00P	Oral Presentations: Diagnosis (Northwest Hall 1)	Invited Educational Symposium: Menage A Trois: Immune System, Brain and Behavior – Relationships Between the Three (Northwest Hall 2)	Oral Presentations: Neuroimaging - Connectivity (Northwest Hall 5)

Invited Educational Symposium

135 Menage A Trois: Immune System, Brain and Behavior – Relationships Between the Three

1:00 PM - 3:00 PM - Northwest Hall Room 2

Speakers: R. S. Fujinami¹B. T. Volpe²M. W. Cunningham³D. G. Amaral⁴; (1)University of Utah School of Medicine, (2)Weill Medical College of Cornell University - Burke Institute, (3)University of Oklahoma Health Sciences Center, (4)University of California, Davis

Immune responses to central nervous system (CNS) components have been considered as a potential factor in the development of autism. This session will provide a contextual basis for the immune response, i.e., provide an overview of the immune system and how immune responses to CNS components can arise. Speakers will present several systems where immune responses to CNS antigens lead to alterations in behavior. The first speaker Dr. Robert Fujinami will present an overview of the immune system and some of the mechanisms that can generate immune responses to the CNS. Dr. Bruce Volpe will describe a subset of patients with systemic lupus. These patients have antibodies to DNA which cross-react with subunits of the NMDA receptor. These antibodies are found in the cerebrospinal fluid of the patients and correlate with impaired brain function. Dr. Madeleine Cunningham will present data describing immune reactivity in Sydenham's chorea patients to particular proteins found on the surface of neurons. These antibodies cross-react with the Group A Streptococcus and affect neuronal function. The antibodies correlate with CNS manifestations in patients with chorea. Her experimental animal models also demonstrate that these cross-reactive antibodies can induce changes in behavior further demonstrating that immune responses to CNS components can affect behavior. Dr. David Amaral has very interesting findings using antibodies against CNS components from mothers of individuals with autism spectrum disorders (ASD). Passive transfer of the IgG fraction of antibody from ASD mothers into rhesus monkeys (gestationally treated) resulted in monkeys that were hyperactive and had increased stereotypies. This session should provide a summary and tutorial of the immune system, immune responses and how immune responses to CNS components can affect behavior.

- 1:00 **135.00**
Immune System, Immune Response and CNS Autoimmune Disease: How They All Come Into Play. R. S. Fujinami*, University of Utah School of Medicine

- 1:30 **135.01**
Maternal Antibodies and Cognitive Dysfunction in the Offspring. B. Diamond¹, J. Y. Lee², E. Bertini¹, P. T. Huerta³, B. T. Volpe^{*3} and C. Kowal¹, (1)The Feinstein Institute for Medical Research, (2)Albert Einstein College of Medicine, (3)Weill Medical College of Cornell University - Burke Institute
- 2:00 **135.02**
Molecular Mimicry, Autoimmunity and Infection: Sydenham Chorea and Related Disorders. M. W. Cunningham^{*1}, C. A. Kirvan², L. Brimberg³, A. Mascaro-Blanco¹, K. Alvarez¹, J. S. Heuser¹, J. F. Leckman⁴, S. E. Swedo⁵, P. Lombroso⁴ and D. Joel³, (1)University of Oklahoma Health Sciences Center, (2)California State University, (3)Tel Aviv University, (4)Yale University School of Medicine, (5)National Institute of Mental Health, National Institutes of Health
- 2:30 **135.03** Studies
of a Possible Autoimmune Etiology of Autism. D. G. Amaral^{*1} and J. Van de Water², (1)University of California, Davis, (2)University of California at Davis

Oral Presentations

136 Neuroimaging - Connectivity

1:00 PM - 3:00 PM - Northwest Hall Room 5

- 1:00 **136.00**
Abnormal Functional Connectivity during Emotional Face Processing Is Associated with Neural Abnormalities in the Amygdala in Autism Spectrum Disorders. N. M. Kleinhans^{*1}, C. Johnson¹, T. L. Richards¹, J. Greenson¹, E. H. Aylward¹ and G. Dawson², (1)University of Washington, (2)Autism Speaks, UNC Chapel Hill
- 1:20 **136.01**
A MEG Study of Functional Connectivity during Preparation for Saccades in ASD. T. Kenet^{*1}, E. V. Orekhova², N. Shetty¹, A. K. Lee³, M. Vangel¹, M. Elam², M. Herbert¹, M. S. Hämaläinen¹ and D. S. Manoach⁴, (1)Massachusetts General Hospital, (2)Sahlgrenska University Hospital, (3)Massachusetts General Hospital-Harvard Medical School, (4)Harvard Medical School
- 1:40 **136.02**
Alterations in Frontal Lobe Tracts and Corpus Callosum in Young Children with Autism Spectrum Disorder. A. Kumar, S. K. Sundaram, L. Sivaswamy, M. E. Behen^{*}, M. I. Makki, J. Ager, H. T. Chugani and D. C. Chugani, School of Medicine, Wayne State University
- 2:00 **136.03**
The Limbic System in the Asperger Syndrome: a Preliminary Diffusion Tensor Tractography Study. L. Pugliese^{*1}, M. Catani¹, M. Thiebaut de Schotten¹, C. Murphy¹, E. Daly², D. Murphy¹ and MRC UK AIMS Network¹, (1)King's College London, Institute of Psychiatry, (2)Institute of Psychiatry, King's College London

Program

- 2:20 **136.04**
Probabilistic DTI Tractography Shows Compromised Connectivity Between Regions of Atypically Increased Activity in Children with Autism Spectrum Disorder. D. K. Shukla*¹, B. Keehn², A. J. Lincoln³ and R. A. Müller¹, (1)*San Diego State University*, (2)*San Diego State University / University of California, San Diego*, (3)*Alliant International University*
- 2:40 **136.05**
Relationships Between Diffusion Tensor Imaging and the Social Responsiveness Scale. A. L. Alexander*¹, J. E. Lee¹, M. K. Chung¹, M. DuBray², P. T. Fletcher², A. Froehlich², E. Bigler³, J. E. Lainhart² and N. Lange⁴, (1)*University of Wisconsin*, (2)*University of Utah*, (3)*Brigham Young University*, (4)*Harvard University*

Oral Presentations

137 Diagnosis/Behavior

1:00 PM - 3:00 PM - Northwest Hall Room 1

- 1:00 **137.00**
The Toddler Version of the Autism Diagnostic Interview-Revised (Toddler ADI-R): New Algorithms. S. H. Kim* and C. Lord, *University of Michigan*
- 1:20 **137.01**
Comparison of Diagnostic Classification Between the WPS and Revised ADOS Modules. A. P. Thompson*¹, P. Szatmari¹, S. E. Bryson², E. Fombonne³, P. Mirenda⁴, W. Roberts⁵, I. M. Smith², T. Vaillancourt⁶, J. Volden⁷, C. Waddell⁸, L. Zwaigenbaum⁷, S. Georgiades⁹, .. Pathways in ASD Study Team⁹ and E. Duku¹, (1)*Offord Centre for Child Studies, McMaster University*, (2)*Dalhousie University/IWK Health Centre*, (3)*McGill University*, (4)*University of British Columbia*, (5)*University of Toronto*, (6)*University of Ottawa*, (7)*University of Alberta*, (8)*Simon Fraser University*, (9)*Offord Centre for Child Studies & McMaster University*
- 1:40 **137.02**
Diagnosis of Autism Spectrum Disorder: a Study of Community Practice. N. Akshoomoff*¹, C. Corsello¹ and A. Stahmer², (1)*University of California, San Diego*, (2)*Rady Children's Hospital*
- 2:00 **137.03**
A Multi-Dimensional Model for the Phenotypic Structure of Behaviours, Functional Level and Symptoms in Young Children with Autism. P. Szatmari*¹, S. Georgiades¹, S. E. Bryson², E. Duku¹, W. Roberts³, E. Fombonne⁴, P. Mirenda⁵, I. M. Smith², T. Vaillancourt⁶, J. Volden⁷, C. Waddell⁸, L. Zwaigenbaum⁷, A. P. Thompson¹, N. Garon⁹ and .. Pathways in ASD Study Team¹⁰, (1)*Offord Centre for Child Studies, McMaster University*, (2)*Dalhousie University/IWK Health Centre*, (3)*University of Toronto*, (4)*McGill University*, (5)*University of British Columbia*, (6)*University of Ottawa*, (7)*University of Alberta*, (8)*Simon Fraser University*, (9)*IWK Health Centre*, (10)*McMaster University*
- 2:20 **137.04**
Relationships Between Restricted and Repetitive Behaviours and Adaptive Skill Development Over 4-5 Years in Children with ASD. K. Bopp*, P. Mirenda, S. Jull and R. Stock, *University of British Columbia*
- 2:40 **137.05**
Facilitating Behavioral Change: a Parent Based Program. M. McCreadie and A. McGauley*, *National Autistic Society*

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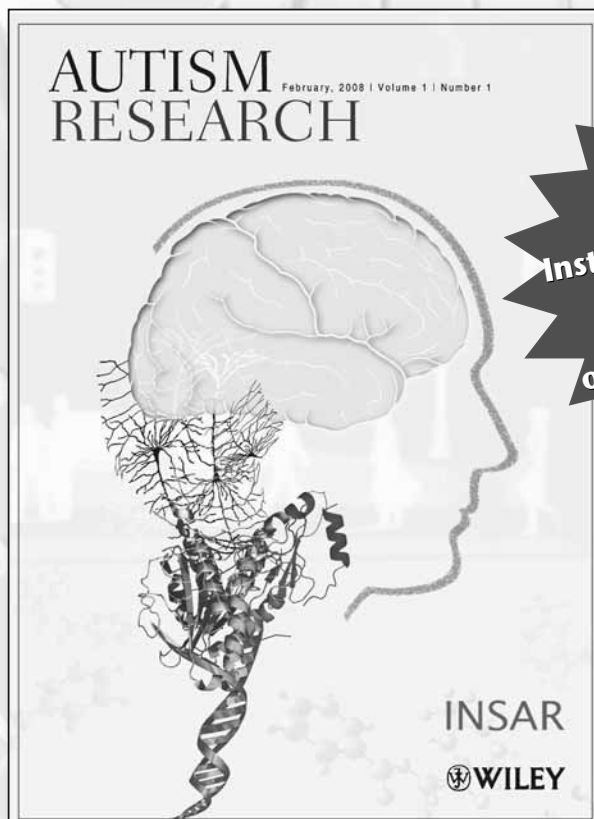
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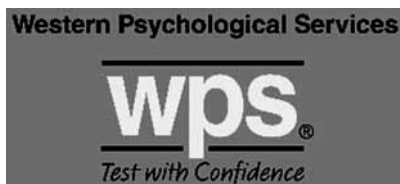
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