IMFAR

INTERNATIONAL MEETING FOR AUTISM RESEARCH

Annual Meeting of the International Society for Autism Research (INSAR)

May 13-16, 2015

Grand America Hotel | Salt Lake City, Utah, USA

International Meeting for Autism Research

www.autism-insar.org

PROGRAM BOOK

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IMFAR
INTERNATIONAL MEETING FOR AUTISM RESEARCH
Annual Meeting of the International Society for Autism Research (INSAR)

IMFAR 15th Annual Meeting
May 11 – 14, 2016
Baltimore Convention Center
Baltimore, Maryland, USA

Abstract submission for the 2016 meeting is scheduled to open in September 2015. Watch our website for details.

www.autism-insar.org

INSAR Mission Statement

To present and promote an integrated approach and understanding of research on autism spectrum disorder

Strategic Initiatives

Setting the Bar – INSAR will promote and enhance the highest quality research agenda at the Society's Annual Meeting and in the Society journal.

Expanding the Scope – INSAR will cultivate cross-cutting breadth of research from basic science to service delivery that encompasses the range of ages and diversity of ASD.

Global Reach – INSAR will expand the scope of its activities to encompass global perspectives on ASD.

Next Generation – INSAR will foster opportunities for leadership and career development for the next generation of ASD researchers.

Building Identity – INSAR will grow its membership and organizational identity.

IMFAR WELCOME

Welcome to the 14th Annual IMFAR, and to Salt Lake City! The 2015 Scientific Program has arisen to match the heights of the surrounding Wasatch and Oquirrh mountain ranges.

Over 1,400 abstracts were submitted for this year's IMFAR. With the leadership of Sally Ozonoff and Jacki Crawley, our Scientific Program Committee has assembled an outstanding array of keynote addresses, breakouts with panel, oral and poster sessions, Special Interest Groups, and special luncheon events for students and stakeholders.

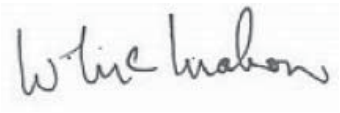
We can be especially proud of our 2015 awardees for outstanding performances in the categories of Lifetime Achievement, Advocate, Slifka/Ritvo Innovation, Young Investigator, and Dissertation.

My thanks go to the INSAR Board, Scientific Program Committee, and the abstract reviewers who diligently worked to uphold our high standards for presentations. I would also like to express my gratitude to Jennifer Gentry and Joe Dymek, who once again provided expert assistance in organizing the process and logistics that support IMFAR.

Finally, I want to also recognize the Salt Lake IMFAR Preconference planning committee who contributed to the outstanding day long workshop that shared the IMFAR experts with the autism community of Utah and surrounding states. Kristina Cottle, Anne Asman, Terisa Gabrielsen, Patrick Leytham, Paul Carbone, and Tia Korologos led our planning efforts and deserve recognition for their outstanding work. Other members of the Utah planning committee include:

Jessica Bowman
Paul Carbone
Teresa Cardon
Julia Connelly
Aaron Fischer
Thomas S. Higbee
Laura G. Holmes
Julia Hood
Gary Knapp
Stacy S. Manwaring
Carma Mordecai
Rob O. O'Neill
Rebecca Annette Parker
Harper Randall
Allison Sampson
Cheryl C. Smith
Jared Stewart
Clain S. Udy
Scott D. Wright

On behalf of those listed above, and many others who contributed to this community effort, we hope you enjoy our region and the IMFAR experience.



William M. McMahon, M.D.
IMFAR Meeting Chair

IMFAR is the Annual Meeting of the International Society for Autism Research (INSAR).

Welcome to the 14th annual International Meeting for Autism Research (IMFAR) in Salt Lake City, Utah, USA. It is our privilege and great pleasure to share the Scientific Program with you. The wealth of fascinating, high quality abstracts for panels, oral sessions and posters made our job both difficult and rewarding. The 1,442 submissions this year were rated by dedicated reviewers, topic chairs, and members of the Program Committee, resulting in 1,225 acceptances. Presenters come from over 40 countries across the globe.

Topics again spanned the full range of autism research, including diagnostic, behavioral and intellectual assessment, social behavior and social cognition, communication and language, cognition and attention, repetitive behaviors and interests, early development, adult outcome, behavioral and pharmacological interventions across the lifespan, brain structure and function, genetics, animal models, molecular biology, comorbid syndromes, epidemiology, services, family issues, new technologies, and perspectives across cultures and countries.

Several innovations were successfully incorporated into the 2015 program. 1) New this year are Keynote Panels. Our Keynote Lecturers, Richard Grinker, Sally Rogers and Jeremy Veenstra-VanderWeele, each generously agreed to assemble a Keynote Panel Session of outstanding talks with high relevance to the subjects of their own lecture. Keynote Panels will immediately follow each corresponding morning Keynote presentation. These topical panels are designed to encourage in-depth discussion of the issues raised by our renowned speakers, and to contribute a diversity of viewpoints. 2) This year, the Program Committee revived an earlier IMFAR format, which assembles oral sessions into four talks instead of eight, to maximize the representation of topics across the limited number of oral sessions. All 20 submission topics thus have an oral session this year. 3) Continuing this year are the popular evening poster sessions with light hors-d'oeuvres, and lunchtime poster sessions with food kiosks nearby, designed to enhance opportunities for scientific interactions in more relaxed, social settings. 4) The online submission software now provides check boxes to a) permit unaccepted panel abstracts to be routinely considered for oral sessions and poster presentations, b) state whether the authors are or are not willing to present their findings in poster format if there is not an opportunity to give a talk, and c) identify early career investigators in panel proposals, to ensure the inclusion of the next generation of autism researchers in prestigious IMFAR panel sessions. We look forward to your feedback on each of these modifications.

Our heartfelt gratitude is expressed to each member of the Program Committee and to each Topic Review Chair (listed on page 16). Their hard work, spanning many months, is reflected throughout this scientific program.INSAR President Francesca Happé, INSAR Board members, and INSAR Board-IMFAR Liaison Laura Klinger contributed tremendously, valuable input to substantive decisions at each phase of program development. Our wonderful Jennifer Gentry, INSAR Administrative Director, provided a crash course in institutional memory from earlier IMFAR conferences, generating timetables and assembling abstract spreadsheets for review decisions, along with Josh Andrews who implemented each stage in the submission and acceptance process through the Confex software system. Personal thanks are extended to everyone involved in the hard work of organizing the scientific program for another successful IMFAR in 2015.

We are honored to have the opportunity to showcase the latest exciting findings in autism research, and hope that the work presented during our three days in beautiful Salt Lake City will improve the quality of life for people on the autism spectrum and their families.

Sally Ozonoff, Ph.D.
IMFAR 2015 Scientific Program Chair

Jacqueline Crawley, Ph.D.
IMFAR 2015 Scientific Program Co-Chair

PRESIDENT'S WELCOME

It is really an honor and a pleasure to welcome you to Salt Lake City for IMFAR 2015! I look forward to learning a lot, as ever, from the wonderful community of autism researchers gathering for this meeting.

There are many people to thank for their hard work in making IMFAR 2015 a success. This beautiful location was chosen by Past-President, Helen Tager-Flusberg, on whom I have relied enormously for wisdom and guidance throughout my three years as President-Elect and then President. Our IMFAR Meeting Chair, Bill McMahon, has been responsible for the fantastic pre-IMFAR stakeholder conference, our opening reception, and giving IMFAR 2015 a local flavor. Our IMFAR Scientific Program Chairs, Sally Ozonoff and Jacki Crawley, have done a magnificent job of deciding on keynotes and the scientific content of the program, as well as organizing and overseeing the hard work of abstract review. Jennifer Gentry and her colleagues from Association Resources are responsible for the smooth running of INSAR all year and work especially hard around IMFAR; and Joe Dymek and colleagues from Conference Direct do an exceptional job of ensuring our conference runs without hitches. I would also like to thank all the INSAR Committee Chairs and members, the volunteers who work so hard all year round to further the aims of our Society, to support and advance research for the benefit of those with autism, their families, carers and friends.

This is my second and last IMFAR as President of INSAR. At the end of the INSAR Business meeting on Saturday, I will hand over the gavel (metaphorically and literally!) to Geri Dawson, your new President. I know she will lead INSAR in new and exciting directions, and I hope she enjoys the role as much as I have. I'm delighted that I'll be staying on the Board of INSAR as Past-President for two further years, with special responsibility for INSAR's 'global reach' mission.

During this Board's two-year term we have really tried to make INSAR your International society, welcoming autism researchers from all over the world, and advancing science for people with autism and their families globally. We have introduced very low rates for INSAR membership and IMFAR registration for people from low and middle income countries. We have instigated the first 'Regional-IMFAR', which will take place later this year in Shanghai (November 6-8th, 2015). At present, there are many parts of the world where it isn't possible to hold IMFAR; it would not be financially viable, or it would be inaccessible to most of our student membership. Regional-IMFAR is our attempt to bring many of the aims and benefits of IMFAR to those parts of the world, through partnership with local researchers and stakeholders, with more flexibility to address the issues most relevant in that place at the current time. I am most grateful to Andy Shih, of Autism Speaks, for facilitating this first Regional-IMFAR; I hope it will be a huge success and that we can hold Regional-IMFARs in future years in India, Africa, South America, and many other places. In my remaining two years on the Board I also hope to create an INSAR-led online repository of global, open-access autism research tools.

In light of INSAR's global mission, I am particularly delighted that the INSAR Advocate Award for 2015 goes to Merry Barua, who has worked tirelessly as a parent and autism advocate, almost single-handedly building the autism community in India. You won't want to miss her acceptance speech, or that of the INSAR 2015 Lifetime Achievement Award winner, Laura Schreibman, whose fundamental work on behavioral interventions will be known to everyone here. This year our Awards Ceremony will also feature short presentations by our Dissertation Award winners, reflecting the importance INSAR places on our student, post-doc and early career members.

Lastly, I would like to thank the outgoing INSAR Board and welcome the three new Board members. Connie Kasari, Laura Grofer Klinger, Helen Tager-Flusberg, James McPartland, David Mandell and Tony Bailey have truly been a joy to work with; not only experts in their fields, wise and thoughtful, but kind, collegiate, funny and infinitively patient with my fumbling efforts to lead the Board. I will miss working with them, and am delighted that Jamie stays on with me as Past-Treasurer to represent their ideas and aims within the new INSAR Board. I am very pleased to welcome the newly elected Board members: Kasia Chawarska as Secretary, Raphael Bernier as Treasurer, and Craig Newschaffer as Vice-President. David Amaral also joins the Board as the newly appointed Editor of our journal, *Autism Research*. It is wonderful that we have such talented scientists joining the Board, who will bring fresh ideas, energy and passion to INSAR's missions.

If you have ideas about how INSAR can better pursue the aims of the autism research community, or how IMFAR could better meet the needs of autism researchers, please come and tell me during the meeting. We are your international society and your concerns shape our mission and aims. Thank you for the opportunity to be part of the INSAR leadership – and I wish you all a really enjoyable and productive meeting.

Francesca Happé, Ph.D. FBA
President, International Society for Autism Research

Special Interest Groups (SIGs)

Friday, May 15, 2015
7:15 AM - 8:45 AM

Creating Patient Centric Information Commons for Autism Research
Room: Envoy
Session Chairs: Isaac Kohane and Megan O'Boyle

Anxiety in Autism: Mechanisms, Measurement, and Treatment
Room: Savoy
Session Chairs: Mikle South, Amy Van Hecke, Alana McVey

Minimally Verbal Individuals
Room: Murano
Session Chairs: Nancy Jones, Terry Katz, Connie Kasari

Multiple Risk Factors for ASD: Genetic Predisposition and Environmental Influences
Room: Grand Salon
Session Chairs: Heather Volk and Gayle Windham

Saturday, May 16, 2015
7:15 AM - 8:45 AM

ASD and Sex Offenses: Guidance for the Criminal Justice System
Room: Envoy
Session Chair: Dr. Laurie Sperry
Co-Chairs: Dr. Rachel Loftin, Dr. Philip O'Donnell, Dr. Alexander Westphal, Hannah Heyward, Ph.D. candidate

Implementing and Evaluating Community-Based Early Intervention
Room: Savoy
Session Chairs: Dr. Kristelle Hudry and Dr. Giacomo Vivanti

Technology and Autism
Room: Murano
Session Chair: Sue Fletcher-Watson
Committee: Alyssa Alcorn, Renae Beaumont, Ouriel Grynszpan, Mari MacFarland, Helen Pain, Katharina Spiel

Approaching Adulthood: Transitional and Vocational Issues in ASD
Room: Grand Salon
Session Chairs: Dr. David Nicholas and Dr. Lonnie Zwaigenbaum

Speaker Ready Room for Oral Presenters

Location: Sussex Room

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

Wednesday, May 13	3:00 p.m. - 6:00 p.m.
Thursday, May 14	7:30 a.m. - 5:30 p.m.
Friday, May 15	7:30 a.m. - 5:30 p.m.
Saturday, May 16	7:30 a.m. - 1:30 p.m.

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

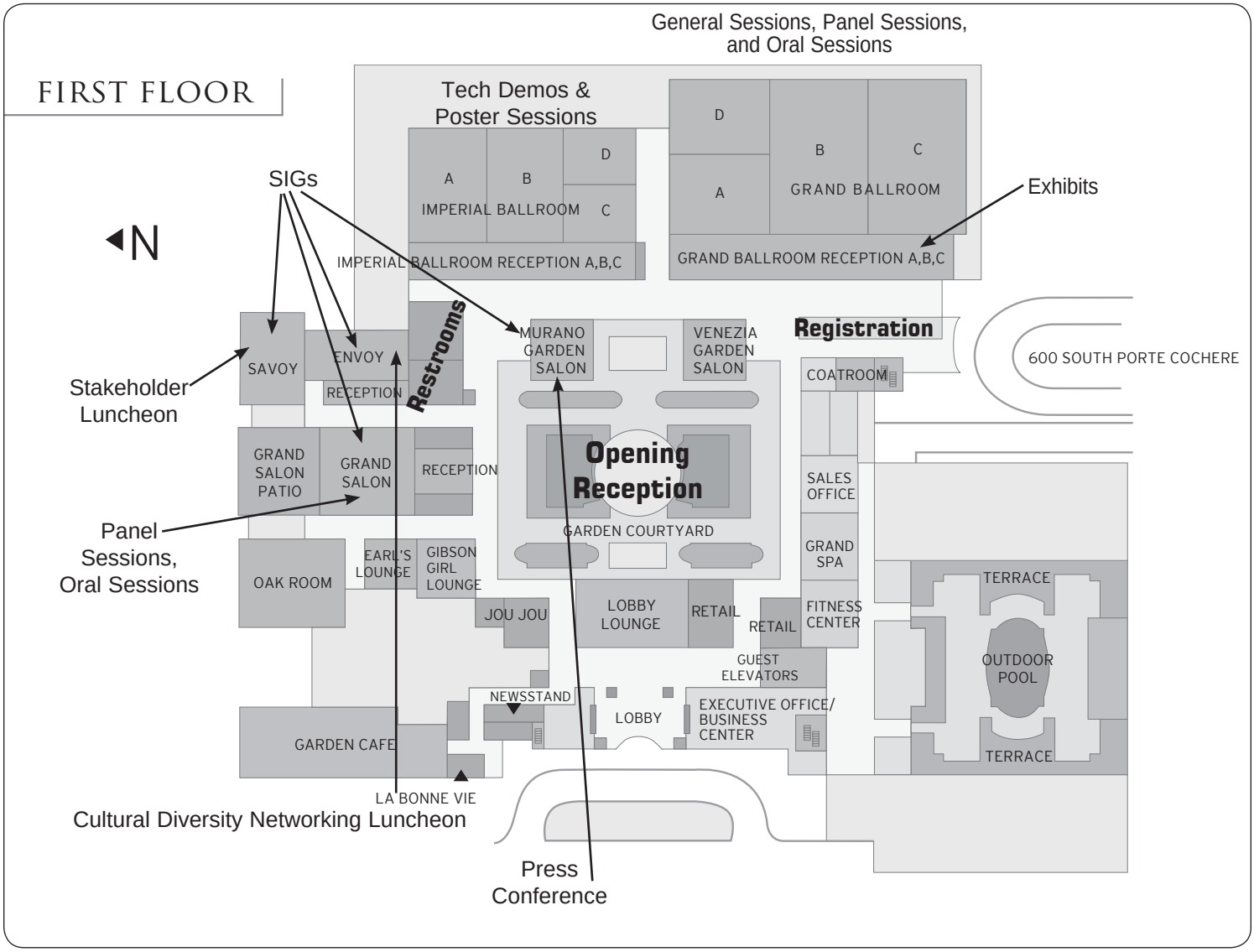
IMFAR
INTERNATIONAL MEETING FOR AUTISM RESEARCH
Annual Meeting of the International Society for Autism Research (INSAR)

Regional IMFAR
November 6-8, 2015
Shanghai International Convention Center (SHICC)
2727 Riverside Ave., Pudong
Shanghai, China

Abstract Submission Deadline:
31 July, 2015
Early Bird Registration Deadline:
15 September, 2015

www.regionalimfar2015-shanghai.org

Grand America Hotel — Floor Plan
Salt Lake City, Utah, USA



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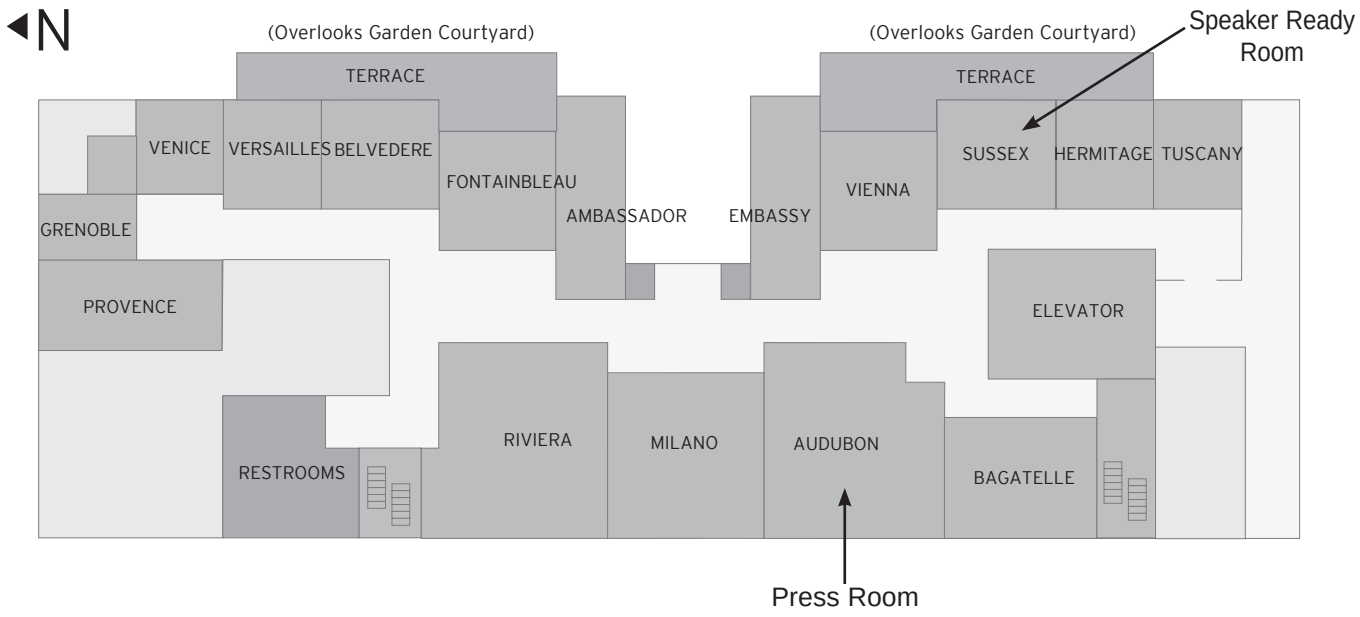
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Speaker Ready Room
TERRACE
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VENICE
VERSAILLES
BELVEDERE
FONTAINBLEAU
AMBASSADOR
EMBASSY
VIENNA
SUSSEX
HERMITAGE
TUSCANY
GRENOBLE
PROVENCE
ELEVATOR
RESTROOMS
RIVIERA
MILANO
AUDUBON
BAGATELLE
Press Room

WEDNESDAY May 13

10:00 a.m. - 11:30 a.m.	Press Conference *Murano*
11:00 a.m. - 7:00 p.m.	Registration Open *Grand Ballroom Registration Desk*
12:00 p.m. - 3:00 p.m.	Early Career Workshop – pre-registration required *Grand Ballroom A*
4:30 p.m. - 5:30 p.m.	Cultural Diversity Meet & Greet Happy Hour *Little America Hotel /Lucky H Lounge* *(Open - no pre-registration)*
5:30 p.m. - 7:00 p.m.	Opening Reception *Center Courtyard (outdoors)/* *Grand Ballroom (backup location)*

THURSDAY May 14

7:30 a.m. - 6:00 p.m.	Registration Open *Grand Ballroom Registration Desk*
8:00 a.m. - 9:00 a.m.	Coffee & Pastries *Grand Ballroom Foyer*
8:00 a.m. - 4:00 p.m.	Exhibits Open (see exhibitor list pages 164-165) *Grand Ballroom Foyer*
8:30 a.m. - 8:45 a.m.	Welcome from IMFAR Organizers *Grand Ballroom*
8:45 a.m. - 9:00 a.m.	President Address – Francesca Happé *Grand Ballroom*
9:00 a.m. - 10:00 a.m.	Keynote Address – R. Richard Grinker - Who Owns Autism? Exceptionalism, Stigma, and Stakeholders *Grand Ballroom*
10:00 a.m. - 10:30 a.m.	Break *Grand Ballroom Foyer*
10:30 a.m. - 12:30 p.m.	Keynote Panel – Autism and Society: Taking Stock of the History and Meaning of Autism Research *Grand Ballroom B*
10:30 a.m. - 12:30 p.m.	Panel – An Update on Vocal Complexity in Infants and Children with ASD *Grand Ballroom A*
10:30 a.m. - 12:30 p.m.	Panel – Approaches to Examining and Identifying Neural Biomarkers for Autism: Progress and Challenges *Grand Ballroom C*
10:30 a.m. - 12:30 p.m.	Panel – Attending to Attention Among Persons with Autism Spectrum Disorder: Perspectives on Strengths, Weaknesses, and Goodness-of-Fit *Grand Ballroom D*
10:30 a.m. - 12:30 p.m.	Panel – Pivotal Response Treatment: Novel Intervention Models to Optimize Outcome *Grand Salon*
11:30 a.m. - 1:30 p.m.	Poster Presentations – Brain Function; Cognition: Attention, Learning, Memory; Medical and Psychiatric Comorbidity; Repetitive Behaviors and Interests; Service Delivery/Systems of Care *Imperial Ballroom*
12:30 p.m. - 1:45 p.m.	Lunch Break *On Your Own*
12:30 p.m. - 1:45 p.m.	Student "Meet the Experts" Luncheon – pre-registration required *Savoy*

1:45 p.m. – 3:30 p.m.	**Oral Sessions 1A – 5B (details follow):**
1:45 p.m. - 2:35 p.m.	Oral Session 1A – New Insights into Social Intervention *Grand Ballroom B*
2:40 p.m. - 3:30 p.m.	Oral Session 1B – Interventions for Adults with ASD *Grand Ballroom B*
1:45 p.m. - 2:35 p.m.	Oral Session 2A – Prenatal Risk Factors and ASD *Grand Ballroom A*
2:40 p.m. - 3:30 p.m.	Oral Session 2B – Neuropeptide Hormones in ASD *Grand Ballroom A*
1:45 p.m. - 2:35 p.m.	Oral Session 3A – International Cross-Cultural Perspectives on Identification *Grand Ballroom C*
2:40 p.m. - 3:30 p.m.	Oral Session 3B – Scaling Autism Interventions Across Cultures in Community Settings *Grand Ballroom C*
1:45 p.m. - 2:35 p.m.	Oral Session 4A – Neural Signatures of Social Perception and Reward Motivation in ASD *Grand Ballroom D*
2:40 p.m. - 3:30 p.m.	Oral Session 4B – Relationships between Behavior and Sensorimotor Circuitry in ASD *Grand Ballroom D*
1:45 p.m. - 2:35 p.m.	Oral Session 5A – Experiencing Autism: First-Hand and Sibling Perspectives *Grand Salon*
2:40 p.m. - 3:30 p.m.	Oral Session 5B – Social Motivation, Social Reward, and ASD Traits in Clinical and Typical Samples *Grand Salon*
3:30 p.m. - 4:00 p.m.	Break *Grand Ballroom Foyer*
4:00 p.m. - 5:30 p.m.	Keynote Address – Lifetime Achievement Awardee – Laura Schreibman *Grand Ballroom*
4:00 p.m. - 5:30 p.m.	INSAR Awards Ceremony – Lifetime Achievement, Advocate Award, Slifka/Ritvo Innovation, Young Investigator, Dissertation *Grand Ballroom*
5:30 p.m. - 7:00 p.m.	Poster Session – Early Development (<48 months); Family Issues and Stakeholder Experiences; Genetics; Interventions Non-Pharmacologic – Preschool; Other *Imperial Ballroom*
7:00 p.m. - 10:00 p.m.	Student Social (offsite)

Author Present Times for Posters:
This year poster presenters have been asked to stand at their posters during the full Poster Session time.

❖ Presentations with this symbol may not be placed in a session within their subject area as they replaced withdrawn presentations.

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

FRIDAY May 15

7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – Creating Patient Centric Information Commons for Autism Research *Envoy*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – Anxiety in Autism: Mechanisms, Measurement, and Treatment *Savoy*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – Minimally Verbal Individuals *Murano*
7:15 a.m.- 8:45 a.m.	Special Interest Group (SIG) – Multiple Risk Factors for ASD: Genetic Predisposition and Environmental Influences *Grand Salon*
8:00 a.m. - 4:00 p.m.	Exhibits Open (see exhibitor list pages 164-165) *Grand Ballroom Foyer*
8:00 a.m. - 9:00 a.m.	Coffee & Pastries *Grand Ballroom Foyer*
8:00 a.m. - 6:00 p.m.	Registration Open *Grand Ballroom Registration Desk*
8:45 a.m. - 9:00 a.m.	Welcome & Simons Foundation Update – Wendy Chung, M.D., Ph.D. *Grand Ballroom*
9:00 a.m. - 10:00 a.m.	Keynote Address – Sally Rogers – Reflections on 50 years of ASD Early Intervention Science *Grand Ballroom*
10:00 a.m. - 10:30 a.m.	Break *Grand Ballroom Foyer*
10:00 a.m. - 1:30 p.m.	Innovative Technology Demonstrations *Imperial Ballroom*
10:30 a.m. - 12:30 p.m.	Keynote Panel – Responses to Early Intervention and Mechanisms of Change *Grand Ballroom B*
10:30 a.m. - 12:30 p.m.	Panel - EU-AIMS: Translating Cellular and Animal Models of Synaptic Gene Deficits to Large-Scale Clinical Studies *Grand Ballroom A*
10:30 a.m. - 12:30 p.m.	Panel - Factors Associated with Adult Outcomes for Individuals with ASD Grand Ballroom C
10:30 a.m. - 12:30 p.m.	Panel - From Genomic Discovery to Genetically Defined Autism Subtypes *Grand Ballroom D*
10:30 a.m. - 12:30 p.m.	Panel - Co-Occurring Psychiatric Disorders and the Lifecourse in ASD: Clinical and Epidemiological Perspectives *Grand Salon*
11:30 a.m. - 1:30 p.m.	Poster Presentations – Communication and Language; Diagnostic, Behavioral and Intellectual Assessment; International and Cross-Cultural Perspectives; Interventions Pharmacologic *Imperial Ballroom*
12:30 p.m. - 1:45 p.m.	Lunch Break *On Your Own*
12:30 p.m. - 1:45 p.m.	Student "Meet the Experts" Luncheon – pre-registration required *Murano*
12:30 p.m. - 1:45 p.m.	Cultural Diversity Networking Luncheon (open – no pre-registration) *Envoy*
12:30 p.m. - 1:45 p.m.	Autism Community Stakeholder Luncheon (open- no pre-registration) *Savoy*
1:45 p.m. – 3:30 p.m.	**Oral Sessions 6A – 10B (details follow):**
1:45 p.m. - 2:35 p.m.	Oral Session 6A – Preterm Birth and ASD Risk *Grand Ballroom B*
2:40 p.m. - 3:30 p.m.	Oral Session 6B – Early ASD Surveillance and Screening *Grand Ballroom B*
1:45 p.m. - 2:35 p.m.	Oral Session 7A – Conditioning and Anxiety *Grand Ballroom A*
2:40 p.m. - 3:30 p.m.	Oral Session 7B - Repetitive Behaviors and Interests *Grand Ballroom A*
1:45 p.m. - 2:35 p.m.	Oral Session 8A – Adult Outcome: Influence of Family and School Contexts and Psychopathology *Grand Ballroom C*
2:40 p.m. - 3:30 p.m.	Oral Session 8B – Cognitive Aging in ASD *Grand Ballroom C*
1:45 p.m. - 2:35 p.m.	Oral Session 9A – From Mice to Monkeys: New Approaches to Dissecting the Neurobiology of ASD *Grand Ballroom D*
2:40 p.m. - 3:30 p.m.	Oral Session 9B – Metabolomic and Genetic Factors in ASD *Grand Ballroom D*
1:45 p.m. - 2:35 p.m.	Oral Session 10A – Brain Anatomy in ASD *Grand Salon*
2:40 p.m. - 3:30 p.m.	Oral Session 10B – Brain Connectivity in ASD *Grand Salon*
3:30 p.m. - 4:00 p.m.	Coffee Break *Grand Ballroom Foyer*
3:30 p.m. - 5:30 p.m.	Panel – Tackling Teenage Troubles: Interventions Aimed at Guiding Adolescents with ASD through the Challenges in the Domains of School, Peers and Psychosexual Development *Grand Ballroom B*
3:30 p.m. - 5:30 p.m.	Panel – Integrating Human Genetics, Functional Genomics, and Model Systems to Illuminate the Etiology of ASD *Grand Ballroom A*
3:30 p.m. - 5:30 p.m.	Panel – Meaningful Social Outcomes in Real World Settings: Targets, Interventions, and Change *Grand Ballroom C*
3:30 p.m. - 5:30 p.m.	Panel – Neuronal Migrational Abnormalities in Autism *Grand Ballroom D*
3:30 p.m. - 5:30 p.m.	Panel – Understanding Early Dyadic Interaction in ASD *Grand Salon*
5:30 p.m. - 7:00 p.m.	Poster Session – Adult Outcome; Interventions – Non-pharmacologic – School Age, Adolescent, Adult; Social Cognition and Social Behavior *Imperial Ballroom*

SATURDAY May 16

7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – ASD and Sex Offenses: Guidance for the Criminal Justice System *Envoy*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – Implementing and Evaluating Community-Based Early Intervention *Savoy*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – Technology and Autism *Murano*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) – Approaching Adulthood: Transitional and Vocational Issues in ASD *Grand Salon*
8:00 a.m. - 2:00 p.m.	Registration Open *Grand Ballroom Registration Desk*
8:00 a.m. - 12:00 p.m.	Exhibits Open (see exhibitor list pages 164-165) *Grand Ballroom Foyer*
8:00 a.m. - 9:00 a.m.	Coffee & Pastries *Grand Ballroom Foyer*
8:45 a.m. - 9:00 a.m.	Welcome & Autism Speaks Update – Robert H. Ring, Ph.D. *Grand Ballroom*
9:00 a.m. - 10:00 a.m.	Keynote Address – Jeremy Veenstra-Vander Weele – Pathways to New Treatments for Autism Spectrum Disorder *Grand Ballroom*
10:00 a.m. - 10:30 a.m.	Break *Grand Ballroom Foyer*
10:30 a.m. - 12:30 p.m.	Keynote Panel – On the Road to Translational Treatments in Autism-Related Genetic Syndromes *Grand Ballroom B*
10:30 a.m. - 12:30 p.m.	Panel – Translational Developmental Research in Restricted and Repetitive Behaviors: From Basic Mechanisms to Intervention *Grand Ballroom A*
10:30 a.m. - 12:30 p.m.	Panel – The Value of Registries and Biobanking to the ASD Community within the Social and Cultural Landscape *Grand Ballroom C*
10:30 a.m. - 12:30 p.m.	Panel – Investigating Multiple Components of Language Development in the Same Children: The Uconn Early Language Study *Grand Ballroom D*
10:30 a.m. - 12:30 p.m.	Panel – You Want Me to Eat What? Novel Treatment Approaches for Food Selectivity and Feeding Problems in Children with Autism Spectrum Disorder *Grand Salon*
11:30 a.m. - 1:30 p.m.	Poster Presentations - Animal Models; Brain Structure; Brain Function; Epidemiology; Molecular and Cellular Biology; Other *Imperial Ballroom*
12:30 p.m. - 1:45 p.m.	Lunch Break *On Your Own*
12:30 p.m. - 1:45 p.m.	INSAR Business Meeting *Grand Salon*
1:45 p.m. – 3:30 p.m.	**Oral Sessions 11A – 15B (details follow):**
1:45 p.m. - 2:35 p.m.	Oral Session 11A – New Treatments for Early Intervention *Grand Ballroom B*
2:40 p.m. - 3:30 p.m.	Oral Session 11B – Implementation of Evidence-Based Practices in Routine Care Settings: Feasibility, Acceptablity, and Provider Fidelity *Grand Ballroom B*
1:45 p.m. - 2:35 p.m.	Oral Session 12A – Psychiatric Comorbidities in ASD *Grand Ballroom A*
2:40 p.m. - 3:30 p.m.	Oral Session 12B – Medical Comorbidities in ASD *Grand Ballroom A*
1:45 p.m. - 2:35 p.m.	Oral Session 13A – Language Interventions in Young Children with ASD: Effectiveness and Impact *Grand Ballroom C*
2:40 p.m. - 3:30 p.m.	Oral Session 13B – Language and Learning Abilities in School-Age Children and Adolescents with ASD *Grand Ballroom C*
1:45 p.m. - 2:35 p.m.	Oral Session 14A – Complex Genetic Variants and Models of Autism *Grand Ballroom D*
2:40 p.m. - 3:30 p.m.	Oral Session 14B – Epigenetics of Autism *Grand Ballroom D*
1:45 p.m. - 2:35 p.m.	Oral Session 15A – Assessment and Measurement of Sensory Issues *Grand Salon*
2:40 p.m. - 3:30 p.m.	Oral Session 15B – Sex Differences: Assessment and Measurement *Grand Salon*

IMFAR Annual Meeting
OPENING RECEPTION
5:30 – 7:00 p.m.
Center Courtyard (outdoors)/Grand Ballroom (backup location)
Open to all IMFAR Registrants

IMFAR 2015
Annual Meeting abstracts are available online www.autism-insar.org

Wednesday, May 13

2nd Annual IMFAR Early Career Development Pre-Conference Workshop
(pre-registration was required)

Noon – 3:00 p.m. • Grand America Hotel – Grand Ballroom A

The INSAR Board of Directors and the Student Committee are hosting the 2nd Annual IMFAR Early Career Development Pre-conference Workshop. This is a three-hour workshop focused on grant writing. Reservations were accepted prior to the Meeting; registration and table assignments were confirmed via email.

Faculty providing grant writing expertise will include: David Amaral, Tony Bailey, Jim Bodfish, Alice Carter, Tony Charman, Mirella Dapretto, Adriana DiMartino, Eric Fombonne, Lisa Gilotty, Alycia Halladay, Jana Iverson, Alice Kau, Laura Klinger, Julie Lounds Taylor, David Mandell, Jim McCracken, Daniel Messinger, Matt Mosconi, Craig Newschaffer, Alison Singer, Sarah Spence, Wendy Stone, Helen Tager-Flusberg, Elena Tenenbaum, Amy Van Hecke, Sara Webb

Cultural Diversity Meet & Greet

4:30 – 5:30 p.m. • Little America Hotel – Lucky H Lounge

New to IMFAR? Want to reconnect with other members before the conference? Join us for Happy Hour before the Opening Reception. The event will be held in the Little America Hotel which is directly across the street from the Grand America. This event is open to all IMFAR 2015 registrants.

Thursday, May 14 and Friday, May 15

Student "Meet-the-Experts" Roundtable Luncheons
(pre-registration was required)

Lunch period: 12:30 – 1:45 p.m. each day • Grand America Hotel • Thursday – Savoy Room • Friday – Murano Room

Research assistants, student scientists and postdoctoral researchers, bring your lunch and network with expert autism scientists in a unique and informal format. Sit at a roundtable with the autism expert of your choice, who will share experiences about their career, research from their laboratory, and advice on how to build a successful research career. Reservations were accepted prior to the Meeting; registration and table assignments were confirmed via email.

Experts on Thursday, May 14th: David Amaral, Bryan King, Geraldine Dawson, Jacqueline Crawley, Richard Grinker, Francesca Happé, Young Shin Kim, Catherine Lord, Jamie McPartland, Sally Ozonoff, Lonnie Zwaigenbaum

Experts on Friday May 15th: Kasia Chawarska, Connie Kasari, David Mandell, William McMahon, Sally Rogers, Stephan Sanders, Paul Shattuck, Jeremy Veenstra-VanderWeele, Amy Wetherby

Thursday, May 14

6th Annual IMFAR Student Social

7:00 p.m. (directly following the poster session) • The Leonardo – 209 East 500 South, Salt Lake City, UT 84111

All INSAR Student members are invited to join us for an evening of informal socializing and networking among students and trainees actively engaged in autism research. We have rented The Event Center and Courtyard on the third floor of The Leonardo (a short walk from the conference hotel) for this event. Food is free and alcoholic beverages are available for purchase. Attendees are also invited to explore the museum exhibits (included with event). No ticket required.

This event is hosted by the INSAR Student Committee. Funds for complimentary food were generously provided by the INSAR Board of Directors. Cash bar.

Friday, May 15

Community Advisory Committee (CAC) Community Stakeholder* Luncheon

12:30 – 1:45 p.m. • Grand America Hotel – Savoy Room

Autism stakeholders are invited to attend the 6th annual Stakeholder* Luncheon. This event is organized by members of the INSAR Community Advisory Committee (CAC) as an avenue to bridge the gap between scientists and members of the autism community. Pre-registration is not required. Hosted by the INSAR Community Advisory Committee.

*The term "stakeholder" has various definitions. In the context of the CAC, a stakeholder is someone who is affected by, or has a personal investment in autism.
Co-Sponsored by: Autism Science Foundation and Autism Speaks

Cultural Diversity Networking Luncheon

12:30 – 1:45 p.m. • Grand America Hotel – Envoy Room

Bring your lunch to the room. Pre-registration is not required.

IMFAR 2015 KEYNOTE SPEAKERS

Roy Richard Grinker, Ph.D.

Roy Richard Grinker is Professor and Chair of Anthropology, and Director of the Institute for Ethnographic Research, at the George Washington University. He is Editor-in-Chief of Anthropological Quarterly. Grinker was born and raised in Chicago. He graduated from Grinnell College in 1983 and received his Ph.D. in Social Anthropology at Harvard University in 1989. Dr. Grinker has published books and articles on a range of topics such as ethnicity, north-south Korean relations, and autism. His work on autism includes a total population study of autism prevalence in Ilsan, South Korea and qualitative research on approaches to early identification and intervention in Korea, the U.S., India, and South Africa. Grinker is the author of *Unstrange Minds: Remapping the World of Autism* (Basic Books, 2007). The book is both an account of the cultural factors underlying changes in autism prevalence, and his own experiences raising a daughter with autism. *Unstrange Minds* received the KEN award from the National Alliance on Mental Illness, was a finalist for the American Anthropological Asssociation's Victor Turner Prize for Ethnographic Writing, and was selected by *Library Journal* as one of the "30 Best Books of 2007."

Sally J. Rogers, Ph.D.

Sally J. Rogers is a developmental psychologist, Professor of Psychiatry and Behavioral Sciences, and Director of Training and Mentoring at the MIND Institute, University of California Davis. She is involved at the international level in major clinical and research activities involving autism. She has received many awards for her teaching, research, and clinical contributions. She has published over 200 papers, chapters, and books on topics including cognitive development in children with profound mental retardation, cognitive and social development of blind infants, symptoms of toddlers with Fragile X Syndrome, as well as numerous papers on clinical and developmental aspects of autism. She has made seminal contributions to the study of imitation in autism research. Her current research focuses on developing effective interventions for infants and toddlers with autism that families and professionals can deliver. In addition to research, she is also a clinician, providing evaluation, treatment, and consultation to infants, children and adults with autism and their families. The intervention model that she developed with Geri Dawson and other colleagues – the Early Start Denver Model – is internationally known and recognized by Time.com and Autism Speaks as one of the 10 main medical breakthroughs of 2012.

Jeremy Veenstra-VanderWeele, M.D.

Dr. Veenstra-VanderWeele is a child and adolescent psychiatrist who uses molecular and translational neuroscience research tools in the pursuit of new treatments for autism spectrum disorder (ASD) and pediatric obsessive-compulsive disorder (OCD). As a predoctoral fellow, medical student, and resident, he trained in human molecular genetics in the laboratory of Edwin H. Cook at the University of Chicago. He expanded his research experience with a post doctoral research fellowship in molecular neuroscience with Randy Blakely and Jim Sutcliffe at Vanderbilt University, with the goal to develop mouse models of social dysfunction and repetitive behavior. Currently, his molecular lab focuses on the serotonin, oxytocin and glutamate systems in genetic mouse models related to ASD and OCD. While developing a molecular neuroscience research program, he also built a clinical/translational research program to study new treatments for ASD and Fragile X Syndrome. He moved both arms of his research program to Columbia University in 2014 to continue to pursue novel treatments for children with these challenging conditions.

INSAR Lifetime Achievement Award

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

Laura Schreibman, Ph.D.

Laura Schreibman, Ph.D., is director and principal investigator of the Autism Intervention Research Program at the University of California at San Diego. She is also a Distinguished Professor Emeritus of Psychology, and Research Professor at the University of California, San Diego, where she has been on the faculty since 1984. She has been a licensed psychologist in the State of California since 1977. She earned her Ph.D. in 1972 at the University of California, Los Angeles, where she focused on the field of behavior analysis and treatment of childhood autism. Her research since her degree has continued in the same vein where she has conducted both basic research on the nature of ASD and applied research on effective interventions. She is co-developer of Pivotal Response Training, one of the first naturalistic treatment approaches for individuals with autism. Her most recent research interests have focused on the development and dissemination of naturalistic developmental behavioral intervention (NDBI) strategies, the development of individualized treatment protocols, translation of empirically based treatments into community settings, analysis of language and attentional deficits, generalization of behavior change, parent training, and issues of assessment. She is an author of four books and more than 160 research reports, articles, and book chapters. *The Science and Fiction of Autism*, published in 2005 by Harvard University Press, is her third book.

INSAR Advocate Award

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

Merry Barua

Merry Barua is Director, Action for Autism India, National Centre for Autism. She is an activist, educator, and a parent to a son with autism. Merry started the autism movement in India when lack of information and misconceptions about this condition abounded. With little support from society or authorities of the time, she set about changing the scenario in awareness, diagnostics, education, human resources development, and policy, among others. Merry writes, teaches, lobbies, trains, sensitizes, counsels, and advocates. Her focus on 'spreading the word' and enabling individuals with autism and their families to empower themselves, has led to a growth in services and the formation of empowered parent groups, and in particular of parent-driven services. Merry's vision of an inclusive society looks not merely at individuals with social and communication challenges, but at all those who do not fit into society's judgmental norms. Merry is an Ashoka Fellow.

Bios provided by recipients

Slifka/Ritvo Innovation in Autism Research Award

The Alan B. Slifka Foundation promotes innovative research on autism spectrum disorders conducted by junior investigators. The objective of the award is to lead to new treatments and improvements in the quality of life of individuals with autism. The Foundation provides one $25,000 (for one year) research award to an INSAR member. The award may support clinical research (diagnosis or treatment of autism or educational efforts) or basic research (epidemiology, genetics, neuroscience, immunology etc). The goal of the Slifka/Ritvo Award is to support promising junior investigators to pursue excellent research for which they do not have funding and are not likely to get funding readily. The recipient of the Slifka/Ritvo Award will be recognized at the Awards Ceremony at IMFAR.

Oleksandr Shcheglovitov	University of Utah

Dissertation Awards

Dissertation Awards are given annually to active scientists and clinicians in training in all areas of autism research. Awards are for the best basic science dissertation and for the best clinical/behavioral dissertation in autism accepted by the university in the year 2014. These awards provide a stipend of $1,500 each.

Vanessa Hus Bal	University of California, San Francisco
Shulamite Green	UCLA
Katherine Stavropoulos	Yale Child Study Center

Young Investigator Awards

Young Investigator Awards are given for the best biological and clinical empirical research papers published or in press in 2014, by an investigator who has been awarded their Ph.D. or M.D. in the past seven years. These awards provide a stipend of $1,500 each.

Sarah Cassidy	Coventry University
Brian O'Roak	Oregon Health & Science University
Ryan Stevenson	University of Toronto

Diversity Travel Awards

Diversity travel awards are given to individuals who are currently members of INSAR, studying in or working in autism research in-health-related institutions, universities, public agencies or other stakeholder-related activities. The awards are given to persons from racial, ethnic, and disability groups that have been historically under-represented in the sciences in their home country. The awards provide a stipend of $1,000 for individuals from North America, Europe and other parts of the developed world; for individuals from the developing world, the stipend is $1,500. The purpose of the awards is to increase participation of individuals currently underrepresented in the biomedical, clinical, behavioral and social sciences, defined as: individuals from underrepresented racial and ethnic groups, individuals from low and middle income countries* or individuals with disabilities, including ASD.

Thomas DeRamus	UAB Cognition Brain and Autism Lab
Anthony Goodwin	University of Wisconsin-Madison
Hala Harony-Nicolas	Icahn School of Medicine at Mount Sinai
Sharlene Lansiquot	Yale Child Study Center
Gloria Law	National Institute of Education
Jose Maximo	University of Alabama, Birmingham
Alida Acosta Ortiz	City University London
Adelle Pushparatnam	University of Cambridge
Amie Senland	University of Saint Joseph
Belinda Williams	University of California Los Angeles

Professionals from Low Income Countries Travel Awards

Subcategory of Diversity Travel Awards provides a stipend of $1,500 to each awardee.

Tawakalt Fagbayi	University of Lagos
Sabri Herguner	NE University
Michelle Hoogenhout	University of Cape Town
Shoba Meera	National Institute of Mental Health and Neurosciences
Joy Okpuzor	University of Lagos
Andrew Olagunju	College of Medicine, University of Lagos
Arkoprovo Paul	National Brain Research Centre
Daniel Valdez	FLACSO
Chongying Wang	Nankai University
Li Yi	Sun Yat-sen University

Student Travel Awards

Student Travel Awards are available to graduate students, postdoctoral fellows, and medical students and residents actively engaged in autism research. These awards provide a stipend of $500 each. First priority is given to students who are presenting their own original research at IMFAR 2015 and who have not previously received an IMFAR Student Award.

Shan Andrews	Johns Hopkins Bloomberg School of Public Health
Thomas Avino	University of California at Davis MIND Institute
Kelly Bakulski	Johns Hopkins Bloomberg School of Public Health
Laura Boccanfuso	Yale University
Kimberly E. Bodner	University of Missouri, Columbia
Daniel Bone	University of Southern California
Kathryn Bradbury	University of Connecticut
Jessica Bradshaw	University of California, Santa Barbara
Jennifer Bush	Indiana University
Sara Calderoni	Stella Maris Scientific Institute
Allison Canfield	University of Connecticut
Iris Chin	University of Connecticut
Matthew Cranwell	Newcastle University
Amanda Crider	Georgia Regents University
Jennifer Davis	Pennsylvania State University
Matthew Davis	University of Kentucky
Jennifer Ference	University of Calgary
Lilli Flink	Yale University School of Medicine
Hannah Friedman	Yale Child Study Center
Ivy Giserman Kiss	University of Massachusetts Boston
Laura Green	The Tree House Community
Kathryn Greenslade	University of Washington
Clare Harrop	University of North Carolina-Chapel Hill
Karen Jones	University of California at Davis
Minyoung Jung	Osaka University
Elizabeth Karp	University of Washington
Cara Keifer	Yale Child Study Center
Paula Krakowiak	UC Davis
Deidre Krupp	Oregon Health and Science University, Center for Spoken Language Understanding
Michelle Lee	Northwestern University
Anne Geeke Lever	University of Amsterdam
Emily Levy	Yale Child Study Center
Lauren Libero	UC Davis MIND Institute
Supriya Malik	University of Birmingham
Meghan Miller	UC Davis MIND Institute
Cari-lene Mul	Anglia Ruskin University
Emily Neuhaus	Seattle Children's Hospital
Eileen Oberwelland	University Hospital Aacehn
Alexa Pohl	Autism Research Centre, University of Cambridge
Hannah Reuman	Yale Child Study Center
Melanie Ring	City University London
Liron Rozenkrantz	Weizmann Institute of Science
Eric Rubenstein	UNC Gillings School of Public Health
Magali Segers	York University
Megha Sharda	International Laboratory of Brain, Music and Sound Research University of Montreal
Asma Soltani	Neurophotonics Laboratory
Nicole Stadnick	University of California, San Diego
Ryan Stevenson	University of Toronto
Emily Trimmer	University of New South Wales
Tawny Tsang	University of California Los Angeles
Katja Tuononen	University of Eastern Finland
Ashley Wagoner	Wake Forest University
Carla Wall	Yale University
Daniel Yang	Yale Child Study Center
Shuting Zheng	University of North Carolina at Chapel Hill

Early Career Workshop Travel Awards

Up to 10 Early Development Career Workshop Travel Awards will be available to current Student members who will be attending IMFAR and the Early Career Workshop (prior to IMFAR). The award provides a $200 stipend paid following IMFAR. Awardee names will be displayed on the screen in the general session room prior to the INSAR Awards Ceremony.

*Please refer to the posted list of countries identified by the World Bank as low-income, lower-middle income, and upper-middle income at http://www.autism-insar.org/imfar-annual-meeting/travel-awards.

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 IMFAR Annual Meeting.

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Gayle Windham
Max Wiznitzer
Ericka L. Wodka
Jason Wolff
Gulnoza Yakubova
Mu Yang
Marshalyn Yeargin-Allsopp
Benjamin Yerys
Gregory S. Young
Debra Zand
Dana Zavatkay
Sasha Zeedyk
Ousseny Zerbo
Andrew Zimmerman
Lonnie Zwaigenbaum

Welcome Address and INSAR President's Address

8:30 - Welcome from IMFAR Organizers
8:45 - INSAR President's Address
Grand Ballroom

Keynote Address
100 - Who Owns Autism? Exceptionalism, Stigma, and Stakeholders

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

Speaker: Roy Richard Grinker, George Washington University, Washington, DC

This presentation focuses on critical themes and challenges in the cultural study of autism spectrum disorder (ASD). First, in clinical, research, and advocacy settings ASD has emerged as a singular and powerful construct that encompasses an increasing number of heterogeneous phenomena. What forces made this category possible? How did it become both a valid and unstable construct? Second, the growth of genetic and other biomedical perspectives on ASD risks reducing ASD to biology alone, and, as a consequence, masking the fact that scientific representations express cultural values about diversity and disability. Difference constructed on the molecular level is still difference, no less stigmatizing and socially consequential because of its biological source (and perhaps even more so). How can we integrate both the biological and sociocultural aspects of ASD into research? Third, ASD is now, in some respects, a commodity that circulates in an industry of "stakeholders," such as therapists, producers of high-cost diagnostic tools, and advocacy organizations. Indeed, as health professionals are discovering in low- and middle-income countries, few diagnostic categories cost as much as ASD. How does the economy of ASD influence the science of ASD?

Keynote Panel Session
101 - Autism and Society: Taking Stock of the History and Meaning of Autism Research

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

Session Chair: Roy Richard Grinker, *George Washington University, Washington, DC*

Current debates about the present and future of autism research generally focus on scientific discovery and are fitted into the framework of the scientific method. This panel departs from convention to "take stock" of the field, and explore autism research as a system of knowledge and practices in social, historical, and economic context. The questions at the core of this panel concern the various and sometimes contradictory aspects of the field of autism research: How has the definition of autism changed over time for a range of individuals, communities, and audiences, and what factors led to those changes? What kinds of authority (e.g., institutional, bureaucratic, academic, legislative, familial) have structured, and been structured by, scientific representations of autism? Is autism a disease, a disability, or an aspect of a 'normal' range of human variation? Is autism singular, or do the boundaries and definitions of the category constrain the ability of researchers and clinicians to address the dimensions of autism as outcomes of a common set of developmental pathways shared by all humans? Speakers from the fields of anthropology, disability rights, linguistics, and epidemiology will employ historical, ethnographic, philosophical, and public health perspectives to explain the dramatic changes in the field of autism research over the past several decades and outline possibilities for the future.

10:30 101.001 Trends in the Prevalence of Intellectual Disability and Autism Spectrum Disorder M. S. Durkin, Population Health Sciences, University of Wisconsin-Madison, Madison, WI

11:00 101.002 The Lived Experience of Autism J. E. Robison, The College of William and Mary, Springfield, MA

11:30 101.003 Emic and Etic Perspectives in the Construction of Authoritative Knowledge on Autism O. Solomon, University of Southern California, Los Angeles, CA

12:00 101.004 ASD vs. ASC: Is One Small Letter Important? S. Baron-Cohen, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

Panel Session
102 - An Update on Vocal Complexity in Infants and Children with ASD

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

Session Chair: T. Woynaroski, *Hearing and Speech Sciences, Vanderbilt University, Thompsons Stn, TN*

Research spanning several decades has demonstrated that vocalizations differentiate young children with ASD from their typically developing peers and predict spoken language and other developmental outcomes in ASD. This panel presents recent findings from several different research groups on vocalization in infants and children with ASD. We open with a presentation that: a) highlights several ways in which the vocalizations of children with ASD differ from their typically developing peers, b) examines associations between these aspects of vocal development and other key domains of deficit in ASD, and c) explores how these differences in vocal development and other domains relate to later cognitive and communication outcomes in ASD. The subsequent series of talks draws on a large database from the LENA Research Foundation, as well as an independent sample of children with ASD who are in early stages of language development, to test the stability and/or validity of several current options for automated analysis of child vocalizations. Implications of the findings for research and clinical practice will be discussed.

10:30 102.001 Relations Among Canonical Babbling and Volubility in Infants Later Diagnosed with ASD and Other Markers Predictive of Outcome E. Patten[1], G. T. Baranek[2], L. R. Watson[3], K. Belardi[4], E. R. Crais[5], K. Poon[6] and D. K. Oller[7], (1)Department of Audiology and Speech Pathology, University of Tennessee Health Science Center, Knoxville, TN, (2)Division of Occupational Science and Occupational Therapy, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Division of Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (4)Speech & Hearing Sciences, University of Noth Carolina, Chapel Hill, Chapel Hill, NC, (5)Division of Speech and Hearing Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)National Institute of Education, Nanyang Technological University, Singapore, Singapore, (7)Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria

11:00 102.002 Stability and Validity of Automated Vocal Analysis As a Measure of Vocalization Complexity in Preschoolers with ASD in Early Stages of Language Development T. Woynaroski[1], D. K. Oller[2] and P. J. Yoder[3], (1)Hearing and Speech Sciences, Vanderbilt University, Thompsons Stn, TN, (2)Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria, (3)Special Education, Vanderbilt University, Nashville, TN

11:30 102.003 Looking Under the Hood of the Infraphonological Vocal Complexity Score P. J. Yoder[1], T. Woynaroski[2], D. Xu[3], J. A. Richards[4], S. Hannon[5], S. S. Gray[6] and D. K. Oller[7], (1)Special Education, Vanderbilt University, Nashville, TN, (2)Hearing and Speech Sciences, Vanderbilt University, Thompsons Stn, TN, (3) Department of Speech, Language and Hearing Sciences, University of Colorado, Boulder, CO, (4)LENA Research Foundation, Boulder, CO, (5)LENA Research Foundation, Denver, CO, (6)Mobility Core Research, Nuance Communications, Dracut, MA, (7)Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria

12:00 102.004 Toward Improved Clinically Useful Automated Vocal Assessments for the Prediction of ASD D. K. Oller[1], P. J. Yoder[2], D. Xu[3], J. A. Richards[4], J. Gilkerson[3] and S. S. Gray[5], (1)Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria, (2)Special Education, Vanderbilt University, Nashville, TN, (3)Department of Speech, Language and Hearing Sciences, University of Colorado, Boulder, CO, (4)LENA Research Foundation, Boulder, CO, (5)Mobility Core Research, Nuance Communications, Dracut, MA

Panel Session
103 - Approaches to Examining and Identifying Neural Biomarkers for Autism: Progress and Challenges
10:30 AM - 12:30 PM - Grand Ballroom C

Session Chair: J. McCleery, *Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA*

Discussant: T. P. Roberts, *Children's Hospital of Philadelphia, Philadelphia, PA*

Clinicians involved in treating heart disease, diabetes, and cancer, are all able to utilize a number of scientifically validated biomarkers to better understand the origin and nature of their patients' diseases, and to initiate tailored interventions. One of the greatest current challenges to understanding and treating autism and other psychiatric conditions is the relative absence of such biomarkers. The current panel presents four research programs involving differing approaches to the search for brain-based biomarkers for autism spectrum disorders. Bartley and colleagues present data utilizing arterial spin labelling to establish voxel-based reliability of activity across 10 weeks in a brief biomarker assessment; Stefanidou and colleagues present evidence that event-related potentials biomarkers for core social processing atypicalities may differ across development and/or intellectual ability levels in autism; Hudac and colleagues describe evidence for a significant role of genetic variability in defining an electroencephalography-based biomarker for social processing within individuals diagnosed with autism; finally, Roberts and colleagues describe a robust, multi-modal set of biomarkers for variability in language-related functioning in individuals with autism. Together, these presentations describe both challenges and successes in the field's application of cutting edge neuroimaging procedures and approaches to the identification of meaningful, clinically-relevant biomarkers for individuals with autism.

10:30 103.001 Cerebral Blood Flow Biomarkers of Autism during a Passive Viewing Task G. K. Bartley[1], H. S. Liu[2], J. D. Herrington[3], B. E. Yerys[4], J. A. Detre[5] and R. T. Schultz[3], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Psychiatry, University of Pennsylvania, Philadelphia, PA, (5)Neurology, University of Pennsylvania, Philadelphia, PA

10:55 103.002 Evaluation of Atypical Human Action Sound Processing As an Early Biomarker for Autism C. Stefanidou[1], R. Ceponiene[2] and J. McCleery[3], (1)School of Psychology, University of Birmingham, Birmingham, United Kingdom, (2)UCSD Medical Center, California, CA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

11:20 103.003 Biomarkers of Social Perception in Children with ASD and Loss of Function Gene Mutations C. Hudac[1], A. Kresse[2], T. DesChamps[2], S. J. Webb[3] and R. Bernier[2], (1)University of Washington, Seattle, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA

11:45 103.004 Electrophysiological Signatures for ASD: Putting the "Bio" into Biomarker T. P. Roberts[1], W. C. Gaetz[2], J. I. Berman[1], L. Blaskey[1] and J. C. Edgar[1], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Children's Hospital of Philadelphia, Bala Cynwyd, PA

12:10 Discussant

Panel Session
104 - Attending to Attention Among Persons with Autism Spectrum Disorder: Perspectives on Strengths, Weaknesses, and Goodness-of-Fit
10:30 AM - 12:30 PM - Grand Ballroom D

Session Chair: O. Landry, *La Trobe University, Bendigo, Australia*

Throughout the lifespan, where and how visual attention is allocated affects what we learn about the world, how we interact with others, and how we plan goal-directed behaviors. Several "atypicalities" in visual attention are cited among persons with ASD. Under some circumstances, such as visual search, this atypicality takes the form of enhanced performance. In other circumstances, such as attentional disengagement, the abnormality is characterized as impairment. But in many other aspects of visual attention, the differences that emerge between individuals with autism can simply be identified as superior or inferior. For example, the processes involved in the modulation of attentional focus, such as needed under varying conditions of perceptual load or when the task necessitates efficient attending to target information in dynamic complex environments, can involve diminished performance in one circumstance and enhanced performance on another. Across all these permutations of strengths and weaknesses, the understanding of the subtle nuances of attentional processing provides considerable insight into context-specific cognitive and social styles and level of performance of persons with ASD. In this panel, we will explore the nuances of visual attention of persons with ASD within the frameworks of both strength and weakness within the demands of the environment.

10:30 104.001 Attentional Priority for Special Interests in Autism Spectrum Disorder (ASD) and Neurotypical Passions A. Remington[1], O. E. Parsons[2] and A. P. Bayliss[3], (1)Institute of Education, London, United Kingdom, (2)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)School of Psychology, University of East Anglia, Norwich, United Kingdom

11:00 104.002 Visual Search in Time Among Persons with an Autism Spectrum Disorder N. Russo[1], W. R. Kates[2] and B. Wyble[3], (1) Syracuse University, Syracuse, NY, (2)SUNY Upstate Medical University, Syracuse, NY, (3)The Pennsylvania State University, University Park, PA

11:30 104.003 Challenging the Myth of Attentional Overfocus Among Persons with Autism Sprectrum Disorder J. A. Burack[1], D. A. Brodeur[2], J. Stewart[3], J. Querengesser[4] and O. Landry[5], (1)Educational & Counselling Psychology, McGill University, Montreal, QC, Canada, (2)Department of Psychology, Acadia University, Wolfville, NS, Canada, (3)McGill University, Montreal, QC, Canada, (4)Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (5)La Trobe University, Bendigo, Australia

12:00 104.004 The Curious History of the Gap/Overlap Procedure J. T. Elison, Institute of Child Development, University of Minnesota, Minneapolis, MN

Panel Session
105 - Pivotal Response Treatment: Novel Intervention Models to Optimize Outcome
10:30 AM - 12:30 PM - Grand Salon

Session Chair: A. Y. Hardan, *Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA*

Discussant: L. Schreibman, *University of California, San Diego, La Jolla, CA*

This panel will review new research into state-of-the-art models for disseminating evidence-based Pivotal Response Treatment (PRT) for ASD across key contexts and stakeholders. The first presentation examines results of a large randomized controlled trial of PRT Group (PRTG) and reviews data on the effects of group parent education on child language and parenting stress and empowerment. The second talk introduces the novel Classroom PRT (CPRT) approach for training teachers and will present preliminary teacher outcomes and child characteristics from large-scale application of CPRT in school settings. The third presentation reviews preliminary data on the effects of brief individually-administered PRT on child language use, as well as neurophysiological function measured with EEG for a small subsample. Finally, our fourth panelist will discuss a package treatment model which combines both parent training and clinician-delivered intervention in home settings to maximize treatment effects and data supporting this model will be shared. Overall, this panel offers a review of innovative research in intervention models of PRT to optimize outcome across multiple universities, documenting novel approaches for community implementation of evidence-based motivational treatment practices. We seek to stimulate further research interest in the development of high-quality autism interventions and in effective strategies for wide-spread dissemination.

10:30 105.001 Pivotal Response Treatment Parent Training Group: Effects on Parent Factors and Child Outcomes from a Randomized Controlled Trial K. L. Berquist[1], G. W. Gengoux[2], M. B. Minjarez[3], J. M. Phillips[2], T. W. Frazier[4] and A. Y. Hardan[2], (1)Stanford University, Stanford, CA, (2)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (3)Psychiatry and Behavioral Sciences, Seattle Children's Hospital, Seattle, WA, (4)Cleveland Clinic, Center for Autism, Cleveland Clinic Children's, Cleveland, OH

10:55 105.002 Examining Outcomes and Satisfaction in a Randomized Trial of Classroom Pivotal Response Training (CPRT) A. C. Stahmer[1], J. Suhrheinrich[1] and S. R. Rieth[2], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Child and Family Development, San Diego State University, San Diego, CA

11:20 105.003 Efficacy of Brief Pivotal Response Training on Language Outcomes and Neurophysiological Indices in Children with ASD M. B. Minjarez[1], T. DesChamps[2], A. Kresse[3], G. W. Gengoux[4], A. Y. Hardan[4], K. L. Berquist[5], S. J. Webb[2] and R. Bernier[6], (1) Psychiatry and Behavioral Sciences, Seattle Children's Hospital, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Seattle Children's Research Institute, Seattle, WA, (4)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (5)Stanford University, Stanford, CA, (6)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA

11:45 105.004 Pivotal Response Treatment Package: Combined Parent Training with Clinician-Delivered in-Home Treatment G. W. Gengoux[1], J. M. Phillips[1], C. M. Ardel[1], M. E. Millan[1], R. Schuck[1], T. W. Frazier[2] and A. Y. Hardan[1], (1)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (2)Cleveland Clinic, Center for Autism, Cleveland Clinic Children's, Cleveland, OH

12:10 Discussant

Poster Session
106 - Medical and Psychiatric Comorbidity
11:30 AM - 1:30 PM - Imperial Ballroom

1 106.001 A Delphi-Procedure Study of Standards of Clinical Assessment and Treatment of Individuals with Co-Occurring Gender Dysphoria and Autism Spectrum Disorders J. F. Strang[1], H. Meagher[2], L. Kenworthy[3] and L. G. Anthony[1], (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Catholic University of America, Washington, DC, (3)Children's Research Institute, Children's National Medical Center, Washington, DC

2 106.002 ASD in Sibling Pairs Discordant for ADHD A. M. Reiersen and M. B. McGrath, Psychiatry, Washington University in St. Louis School of Medicine, St. Louis, MO

3 106.003 Alexithymia As a Predictor of Dimensional Scales of Autism Symptoms K. Stephenson[1], M. E. Maisel[1], J. C. Cox[2] and M. South[3], (1)Department of Psychology, Brigham Young University, Provo, UT, (2)Counseling and Psychological Services, Brigham Young University, Provo, UT, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

4 106.004 Antipsychotic Medication Use and Metabolic Monitoring in an Integrated Outpatient Clinic for Individuals with Autism and Other Neurodevelopmental Disabilities L. M. Ruiz[1], M. Damron[2], K. B. Jones[3], D. Weedon[2], P. S. Carbone[2], A. V. Bakian[1] and D. A. Bilder[1], (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)University of Utah, Salt Lake City, UT, (3)Family and Preventive Medicine, University of Utah, Salt Lake City, UT

5 106.005 Anxious Imagery in Children with Autism Spectrum Disorder A. Ozsivadjian[1], M. J. Hollocks[2], M. Absoud[3], J. Southcott[4] and E. Holmes[5], (1)Guy's Hospital, London, United Kingdom, (2)Denmark Hill, King's College London, London, United Kingdom, (3)Children's Neurosciences Centre, Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom, (4)Children's Neurosciences Centre, Guy's and St Thomas' NHS foundation trust, London, United Kingdom, (5)Cognition and Brain Sciences Unit, Cambridge University, Cambridge, United Kingdom

6 106.006 Assessing ASD Symptoms and Comorbid Psychopathology in Adults with ASD: Who Should You Ask? A. N. Heintzelman, A. M. Pearl, M. Murray and K. C. Durica, Department of Psychiatry, Penn State Hershey, Hershey, PA

7 106.007 Association Between Age at Menarche and Autistic Traits in Turkish University Students A. Herguner[1] and S. Herguner[2], (1)Child and Adolescent Psychiatry Clinic, Konya Reseach and Training Hospital, Konya, Turkey, (2)Department of Child and Adolescent Psychiatry Meram Faculty of Medicine, Necmettin Erbakan University, Konya, Turkey

8 106.008 Association Between Pubertal Stage and Behavioral Profile Across Neurodevelopmental Disorders M. Penner[1], A. Dupuis[2] and E. Anagnostou[3], (1)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Clinical Research Services, The Hospital for Sick Children, Toronto, ON, Canada, (3) Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

9 106.009 Associations Between ASD Symptoms, Internalizing Symptoms, Empathy, and Social Loneliness in Young Adults with ASD A. M. Pearl, K. C. Durica, M. Murray and A. N. Heintzelman, Department of Psychiatry, Penn State Hershey, Hershey, PA

10 106.010 Autism Spectrum and Psychosis Risk in the 22q11.2 Deletion Syndrome; Findings from a Prospective Longitudinal Study A. M. Fiksinski[1], T. Opacak[1], E. J. Breetvelt[1], S. N. Duijff[1] and J. A. Vorstman[2], (1)Psychiatry, Brain Center Rudolf Magnus UMC Utrecht, Utrecht, Netherlands, (2)UMC Utrecht, Utrecht, Netherlands

11 106.011 Body Mass Index (BMI) Is Negatively Correlated with Adaptive Functioning in a Population of Children with Neurodevelopmental Disorders L. Capano[1] and E. Anagnostou[2], (1)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, University of Toronto, Toronto, ON, Canada, (2)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

12 106.012 Burden of Psychiatric Symptoms in ASD: Understanding the Full Range from Inpatients to Outpatients and Across IQ M. D. Lerner[1], C. A. Mazefsky[2], M. Siegel[3], R. Gabriels[4], D. L. Williams[5], J. Pierri[6], C. Peura[7] and K. D. Gadow[8], (1)Psychology, Stony Brook University, Stony Brook, NY, (2)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (3)Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME, (4)Children's Hospital Colorado, Aurora, CO, (5)Speech-Language Pathology, Duquesne University, Pittsburgh, PA, (6)University of Pittsburgh Medical Center, Pittsburgh, PA, (7)Developmental Disorders Program, Spring Harbor Hospital, Westbrook, ME, (8)Psychiatry, Stony Brook University, Stony Brook, NY

13 106.013 Chronic Sleep Reduction and Psychopathology Symptoms in Adults with High-Functioning Autism Spectrum Disorder E. K. Baker[1] and A. L. Richdale[2], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Cooperative Research Centre for Living with Autism Spectrum Disorders (Autism CRC), Brisbane, Australia

14 106.014 Close but No Cigar: Factor Structure of the ADHD Rating Scale in Children with Autism Spectrum Disorder B. E. Yerys[1,2], J. Nissley-Tsiopinis[3], A. de Marchena[1], L. Antezana[1], T. J. Power[2,3] and R. T. Schultz[1,4], (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Psychiatry, University of Pennsylvania, Philadelphia, PA, (3)Center for the Management of ADHD, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Departments of Pediatrics and Psychiatry, University of Pennsylvania, Philadelphia, PA

15 106.015 Correlates of Cross-Sectional and Longitudinal Health-Related Quality of Life Among Children with Autism Spectrum Disorders K. Kuhlthau[1], E. McDonnell[2], N. Payakachat[3], D. L. Coury[4], J. Delahaye[5] and E. Macklin[5], (1)Department of Pediatrics, Massachusetts General Hospital, Boston, MA, (2)Biostatistics, Massachusetts General Hospital, Boston, MA, (3)Pharmacy Practice, University of Arkansas for Medical Sciences, Little Rock, AR, (4)Nationwide Children's Hospital, Columbus, OH, (5)Massachusetts General Hospital, Boston, MA

16 106.016 Dietary Influences on BMI in Children with Autism Spectrum Disorders S. R. Straka[1], S. L. Hyman[2], B. L. Schmidt[2], K. Evans[3] and P. A. Stewart[2], (1)Developmenal and Behavioral Pediatrics, Golisano Children's Hospital University of Rochester Medical Center, Rochester, NY, (2)Department of Pediatrics and Clinical and Translational Science Institute, University of Rochester School of Medicine, Rochester, NY, (3)University of Rochester Medical Center, Rochester, NY

17 106.017 Dispositional Mindfulness Predicts Anxiety in Adults Diagnosed with Autism Spectrum Disorder M. E. Maisel[1], K. Stephenson[1], J. C. Cox[2] and M. South[3], (1)Department of Psychology, Brigham Young University, Provo, UT, (2)Counseling and Psychological Services, Brigham Young University, Provo, UT, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

18 106.018 EEG Endophenotypes in Autism Spectrum Disorder J. K. Capal[1], K. C. Dominick[2], C. Carosella[2] and R. Lieberman[3], (1) Department of Neurology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)CARE/Crawley Building, Suite E-870, University of Cincinnati College of Medicine, Cincinnati, OH

19 106.019 Eating Problems Are Associated with Autism Severity in Toddlers with Autism Spectrum Disorder O. E. Stolar[1], D. A. Zachor[2], D. Eitan[3] and E. Ben Itzchak[4], (1)Pediatric, The Autism Center, Assaf Harofeh Medical Center, Ra'anana, Israel, (2)Assaf Harofeh Medical Center, Tel Aviv University, Zerifin, Israel, (3)ALUT the Israeli National Organization for children with ASD, Zerifin, Israel, (4)Ariel University/ Assaf Harofeh Medical Center, Givat Shmuel, Israel

20 106.020 Eating Problems in Men and Women with ASD and Average Intelligence A. A. Spek, Autisme Kenniscentrum, Utrecht, Netherlands

21 106.021 Elevated Prevalence of Overweight and Obesity Among Children with Autism Spectrum Disorders A. P. Hill[1], K. E. Zuckerman[2] and E. J. Fombonne[1], (1)Oregon Health & Science University, Portland, OR, (2)Pediatrics, Oregon Health & Science University, Portland, OR

22 ▸ 106.022 Ethnic Differences in Comorbid Impairments in Attention and Hyperactivity Among Youth with Autism Spectrum Disorder A. B. Ratto[1], L. G. Anthony[2], L. Kenworthy[3], K. M. Dudley[4], A. C. Armour[2] and B. J. Anthony[5], (1)Children's National Health System, Silver Spring, MD, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Children's Research Institute, Children's National Medical Center, Washington, DC, (4)Children's National Medical Center, Rockville, MD, (5)Center for Child and Human Development, Georgetown University, Washington, DC

23 106.023 Features of Pathological Demand Avoidance Identified Using the Diagnostic Interview for Social and Communication Disorders ('DISCO') E. O'Nions[1], J. Gould[2], C. Gillberg[3], P. Christie[4] and F. Happé[5], (1)Division of Psychology and Language Sciences, University College London, London, United Kingdom, (2)National Autistic Society, London, United Kingdom, (3)Gillberg Neuropsychiatry Centre, Gothenburg, Sweden, (4)Nottingham Regional Society for Adults and Children with Autism (NORSACA), Nottingham, United Kingdom, (5)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

24 106.024 Fractal Analysis of Autonomic Nervous System Function in ASD H. Saghir[1,2], T. Chau[2,3] and A. Kushki[2,4], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, ON, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

25 106.025 Gastrointestinal Issues in Children with Autism Spectrum Disorders Compared to Children with Developmental Delays and a Population Based Sample in the Study to Explore Early Development (SEED) A. M. Reynolds[1], G. N. Soke[1], L. A. Croen[2], J. Daniels[3], M. D. Fallin[4], T. V. Kral[5], L. C. Lee[6], C. J. Newschaffer[7], J. A. Pinto-Martin[8], L. A. Schieve[9], A. Sims[10] and S. E. Levy[11], (1)University of Colorado Denver, Aurora, CO, (2)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (3)UNC Gillings School of Public Health, Chapel Hill, NC, (4)Johns Hopkins School of Medicine, Baltimore, MD, (5)University of Pennsylvania School of Nursing, Philadelphia, PA, (6)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7) A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (8) Biobehavioral Health Sciences, University of Pennsylvania, Philadelphia, PA, (9)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (10)Biomedical Research and Informatics Core, Michigan State University, East Lansing, MI, (11)Developmental & Behavioral Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA

26 106.026 Gastrointestinal Symptoms and Associated Clinical Features in Preschoolers with Autism Spectrum Disorders F. Fulceri[1], M. Morelli[2], E. Santocchi[3], A. Narzisi[3], S. Calderoni[4] and F. Muratori[5], (1)Calambrone Pisa, IRCCS STELLA MARIS FOUNDATION, Pisa, Italy, (2)Stella Maris Foundation, Pisa, Italy, (3)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (4)Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute, Pisa, PI, Italy, (5)Stella Maris Scientific Institute, Calambrone (Pisa), Italy

27 106.027 Gastrointestinal Symptoms, Whole Blood Serotonin Levels, and Behavioral Symptoms in Children and Adolescents with Autism Spectrum Disorder S. Marler[1], E. B. Lee[2], G. M. Anderson[3], B. Ferguson[4], E. McDonnell[5], D. Q. Beversdorf[6] and J. Veenstra-Vander Weele[7,8], (1)Psychiatry, Vanderbilt University, Nashville, TN, (2)Pediatrics, Vanderbilt University, Nashville, TN, (3)Child Study Center, Yale University School of Medicine, New Haven, CT, (4)Radiology, University of Missouri, Columbia, MO, (5)Biostatistics Center, Massachusetts General Hospital, Boston, MA, (6)Radiology, Neurology, Psychological Sciences, University of Missouri, Columbia, MO, (7)Columbia University, New York, NY, (8)New York State Psychiatric Institute, New York, NY

28 106.028 History of Tympanosotomy Tube Placement in Children Referred to a Tertiary Autism Diagnostic Center S. Monteiro[1], L. Berry[2], J. B. Swanson[3], E. Smith[4], R. Rodrigues[4], A. Spinks-Franklin[3] and R. G. Voigt[3], (1)Baylor College of Medicine/Texas Childrens Hospital, Houston, TX, (2)Suite 180, Baylor College of Medicine, Houston, TX, (3)Pediatrics, Baylor College of Medicine, Houston, TX, (4)Pediatrics, Baylor College of Medicine/Texas Children's Hospital, Houston, TX

29 106.029 Impact of Feeding Disorders in Parental Stress in Children with Autism Spectrum Disorder and with Other Developmental Disabilities M. D. Valicenti-McDermott[1,2], K. F. Hottinger[3], K. Lawson[3], R. M. Seijo[1,2], L. H. Shulman[1,2], M. Schechtman[3] and S. Shinnar[4], (1)Pediatrics/CERC, Albert Einstein College of Medicine, Bronx, NY, (2)Children's Hospital at Montefiore, Bronx, NY, (3)Albert Einstein College of Medicine, Bronx, NY, (4)Neurology, Pediatrics and Epidemiology and Population Health, Albert Einstein College of Medicine, Bronx, NY

30 106.030 Internalizing Symptoms in Adults with ASD: Relation to ASD Symptomatology J. L. Mussey[1], M. R. Klinger[2], S. P. Thomas[2], P. S. Powell[3] and L. G. Klinger[1], (1)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (2)Allied Health Sciences, University of North Carolina, Chapel Hill, NC, (3)University of North Carolina, Chapel Hill, NC

31 106.031 Investigating Sympathetic Over-Arousal in ASD S. Panju[1], J. A. Brian[2], A. Dupuis[3], E. Anagnostou[4] and A. Kushki[1,5,6], (1)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (3)The Hospital for Sick Children, Toronto, ON, Canada, (4)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (5)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (6)Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, ON, Canada

32 106.032 Longitudinal Changes in the Presence and Severity of Self-Injurious Behaviors, and Predictors of Change, in Children with Autism Spectrum Disorders G. N. Soke[1], C. DiGuiseppi[2], T. Fingerlin[3], C. Robinson[4], S. A. Rosenberg[5], R. F. Hamman[6] and A. M. Reynolds[1], (1)University of Colorado Denver, Aurora, CO, (2)Epidemiology/Colorado School of Public Health, University of Colorado - Denver, Aurora, CO, (3)National Jewish Health, Denver, CO, (4)Pediatrics and Psychiatry, University of Colorado School of Medicine, Aurora, CO, (5)Department of Psychiatry, University of Colorado School of Medicine, Aurroa, CO, (6)Epidemiology, Colorado School of Pubic Health, Aurora, CO

33 106.033 Loxapine Substitution for Reversal of Antipsychotic-Induced Metabolic Disturbances: A Retrospective Chart Review J. A. Hellings[1], S. Jain[2] and R. Andridge[3], (1)Psychiatry, The Ohio State University Nisonger Center McCampbell Hall, Columbus, OH, (2)The Ohio State University College of Medicine, Columbus, OH, (3)Biostatistics, The Ohio State University, College of Public Health, Columbus, OH

34 106.034 Medical and Psychiatric Comorbidities in a Cohort of Adults with Autism Spectrum Disorder N. Brondino[1], L. Fusar-Poli[1], U. Provenzani[1], M. Rocchetti[1], C. Panisi[1], R. Keller[2], F. Barale[1] and P. Politi[1], (1)Department of Brain and Behavioral Sciences, University of Pavia, Pavia, Italy, (2)ADULT AUTISM CENTER, ASL TO2, TURIN, ITALY, Turin, Italy

35 106.035 Medical and Psychiatric Comorbidity Among US Adolescents with Autism Spectrum Disorder from the NCSA B. Sheppard[1], T. Lateef[2], J. P. He[2], M. D. Fallin[3] and K. R. Merikangas[2], (1)Johns Hopkins School of Public Health, Baltimore, MD, (2)National Institute of Mental Health, Bethesda, MD, (3)Mental Health & Wendy Klag Center for Autism and Developmental Disabilities, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

36 106.036 Methodological and Reporting Issues in Child Weight Research in ASD S. N. Grondhuis, The Ohio State University, Jackson, MS

37 106.037 New Directions and Research Opportunities for Investigators: Longitudinal Outcomes in the Autism Speaks Autism Treatment Network (AS ATN) D. S. Murray[1], A. M. Shui[2], K. Kuhlthau[3], D. L. Coury[4] and P. Wang[5], (1)Autism Speaks, Boston, MA, (2)02114, Massachusetts General Hospital, Boston, MA, (3)MGH, Boston, MA, (4)Nationwide Children's Hospital, Columbus, OH, (5)Science Department, Autism Speaks, New York, NY

38 106.038 Parental Co-Regulation and Expressed Emotion As Predictors of Psychopathology in Children with ASD V. Ting, A. Maughan, C. S. Albaum and J. A. Weiss, Psychology, York University, Toronto, ON, Canada

39 106.039 Parental Eating Disorders and Broad Autism Phenotype Traits: Is There a Link? J. M. Lee[1], B. A. Barrionuevo[2], N. D. Dueker[1], J. R. Gilbert[1], M. A. Pericak-Vance[1] and M. L. Cuccaro[2], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)University of Miami Miller School of Medicine, Miami, FL

40 106.040 Physiological Arousal Is Related to Parent-and Self-Report of Anxiety in Youth with ASD: Preliminary Evidence for the Concurrent Validity of Anxiety Symptoms L. Sterling[1,2], J. J. Wood[3] and P. Renno[4], (1)Psychology, Claremont McKenna College, Claremont, CA, (2)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (3)Departments of Education and Psychiatry, University of California Los Angeles, Los Angeles, CA, (4)Department of Education, UCLA, Los Angeles, CA

41 106.041 Precision Grip Control with and without Visual Feedback in Autism Spectrum Disorder S. Mohanty[1], K. A. Neely[2], L. M. Schmitt[1], Z. Wang[1], D. E. Vaillancourt[3], J. A. Sweeney[1] and M. W. Mosconi[1], (1) Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX, (2)Department of Kinesiology, Penn State University, State College, PA, (3)University of Florida, Gainesville, FL

42 106.042 Psychiatric Follow up of Children and Adolescent with Past History of Autism N. M. Mukaddes[1], T. Mutluer[2], B. Pasabeyoglu[3] and A. Umut[4], (1)Istanbul Institute of Child and Adolescent Psychiatry, Istanbul, Turkey, (2)Child Psychiatry Clinic, Van Education and Research Hospital, Van, Turkey, (3)Department of Child and Adolescent Psychiatry, Bakirkoy Professor Mazhar Osman Mental Health and Disorders Hospital, Istanbul, Turkey, (4)Istanbul Institute of Child &Adolescent Psychiatry, ISTANBUL, Turkey

43 106.043 Psychophysiological Predictors of Gastrointestinal Symptomatology in Autism Spectrum Disorder B. Ferguson[1], S. Marler[2], E. B. Lee[3], J. E. Akers[4], M. O. Mazurek[5], K. Sohl[6], A. McLaughlin[5], B. Kille[5], K. Hartnett[5], E. A. Macklin[7], E. McDonnell[8], L. Alstein[9], J. Veenstra-Vander Weele[10] and D. Q. Beversdorf[11], (1)University of Missouri-Columbia, Columbia, MO, (2)Psychiatry, Vanderbilt University, Nashville, TN, (3)Pediatrics, Vanderbilt University, Nashville, TN, (4)Research Core, Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (5)University of Missouri, Columbia, MO, (6)Child Health, University of Missouri - Thompson Center, Columbia, MO, (7)Biostatistics Center, Massachusetts General Hospital and Harvard Medical School, Boston, MA, (8)Biostatistics, Massachusetts General Hospital, Boston, MA, (9)Massachusetts General Hospital, Boston, MA, (10)New York State Psychiatric Institute, New York, NY, (11)Radiology, Neurology, Psychological Sciences, University of Missouri, Columbia, MO

44 106.044 Relationships Between ASD/ADHD Symptoms and Abnormal Eating Behaviors in Children M. Hamada[1], H. Ito[2], Y. Murayama[3], M. Katagiri[4], A. Uemiya[4] and M. Tsujii[5], (1)Osaka-Hamamatsu Joint Center for Child Development, Hamamatsu University School of Medicine, Hamamatsu-city, Japan, (2)Hamamatsu University School of Medicine, Nagakute, Aichi, Japan, (3)Hamamatsu University School of Medicine, Hamamatsu-shi, Japan, (4)Hamamatsu University School of Medicine, Hamamatsu-city, Japan, (5)Chukyo Univesity, Toyota, Japan

45 106.045 Sensory Feedback Mechanisms Underlying Postural Control Abnormalities in Individuals with Autism Spectrum Disorder (ASD): A Preliminary Study Z. Wang[1], R. Hallac[2], K. Conroy[1], R. Greene[3], S. P. White[3], J. A. Sweeney[1] and M. W. Mosconi[4], (1)Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX, (2)Analytical imaging and modeling center, Children's Health, Dallas, TX, (3)Center for Autism and Developmental Disabilities, University of Texas Southwestern Medical Center, Dallas, TX, (4)Psychiatry and Pediatrics, Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX

46 106.046 Sleep Disturbance and Aggression in Children with Autism Spectrum Disorder : An Autism Speaks Autism Treatment Network Analysis G. P. Cejas[1], E. Anbalagan[2], G. Singh[1], R. Brown[1] and K. Sohl[3], (1)University of Missouri, Columbia, MO, (2)University of California at San Diego, San Diego, CA, (3)Child Health, University of Missouri - Thompson Center, Columbia, MO

47 106.047 Sleep Problems in Autism Spectrum Disorders: The Influence of Anxiety, Restricted and Repetitive Behaviours and Intolerance of Uncertainty E. K. Baker[1], A. L. Richdale[2] and D. Soliman[3], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Cooperative Research Centre for Living with Autism Spectrum Disorders (Autism CRC), Brisbane, Australia, (3)School of Psychological Science, La Trobe University, Olga Tennison Autism Research Centre, Bundoora, Australia

48 106.048 Sleep Problems in Children with Autism Spectrum Disorder: Examining the Role of Anxiety and Sensory over-Responsivity M. O. Mazurek[1] and G. Petroski[2], (1)Department of Health Psychology, University of Missouri, Columbia, MO, (2)Department of Health Management and Informatics, University of Missouri, Columbia, MO

49 ▸ 106.049 Suicidal Ideation in Korean Children at-Risk for Autistic Spectrum Disorder (ASD) V. Hus Bal[1], B. Leventhal[1], G. Carter[2], G. Yim[1], P. S. Hong[1] and Y. S. Kim[1], (1)Dept of Psychiatry, University of California San Francisco, San Francisco, CA, (2)University of Newcastle, NSW, Australia

50 106.050 Suicidality in Children with Autism Spectrum Disorders A. C. Armour[1], Y. Granader[1], A. B. Ratto[1], C. E. Pugliese[1], J. L. Martucci[2], L. Mohamed[3], L. Kenworthy[4] and J. F. Strang[5], (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Children's National Medical Center, Rockville, MD, (3)Children's National Health System, Rockville, MD, (4)Children's Research Institute, Children's National Medical Center, Washington, DC, (5)Center for Autism Spectrum Disorders, Silver Spring, MD

51 106.051 The Relationship of ASD Symptoms with the Occurrence of Self-Injury Behaviors Among Middle School Students Y. Murayama[1], H. Ito[2] and M. Tsujii[3], (1)Hamamatsu University School of Medicine, Hamamatsu-shi, Japan, (2)Hamamatsu University School of Medicine, Nagakute, Aichi, Japan, (3)Chukyo Univesity, Toyota, Japan

52 106.052 The Role of Verbal Ability in the Co-Occurrence of Problem Behaviours and Gastrointestinal Symptoms in Autism Spectrum Disorders C. Horlin[1] and E. Anagnostou[2], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

53 106.053 Variability in Autism Symptom Severity: The Role of Diurnal Cortisol and Daily Stress in Youth with Autism Spectrum Disorder P. Renno[1], L. Sterling[2], J. T. McCracken[3], K. S. Mallya[4] and J. J. Wood[5], (1)Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, Los Angeles, CA, (2)Claremont McKenna College, Los Angeles, CA, (3)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)Department of Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (5)Departments of Education and Psychiatry, University of California Los Angeles, Los Angeles, CA

54 106.054 Who Are You Afraid of?: Stress Response to Performance Evaluation in Young Adults Diagnosed with ASD C. Nielson[1], M. E. Maisel[2], C. Kindt[1], S. Shahan[2], T. Homewood[1], A. Grow[2], A. Ashton[2] and M. South[3], (1)Neuroscience Center, Brigham Young University, Provo, UT, (2)Department of Psychology, Brigham Young University, Provo, UT, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

55 106.055 "Typical Teen" or "Typical ASD"?: Changes in Self- and Parent-Report of Co-Occurring Conditions for Adolescents with ASD Following a Social Skills Intervention S. M. Minnick, A. M. Pearl, K. C. Durica, A. N. Heintzelman and M. Murray, Department of Psychiatry, Penn State Hershey, Hershey, PA

Poster Session
107 - Service Delivery/Systems of Care
11:30 AM - 1:30 PM - Imperial Ballroom

56 107.056 A Pilot Study of a Screening Model to Triage Toddlers Referred for Autism Spectrum Disorder (ASD) to a Tertiary Care Center (TRC) Using a New Level 2 ASD Screening Test R. Choueiri[1], J. F. Lemay[2] and S. Wagner[3], (1)Pediatrics, University of Massachusetts Memorial Children's Medical Center, Worcester, MA, (2)Developmental and Behavioral Pediatrics, Alberta Children's HOspital, Calgary, AB, Canada, (3)Behavioral, Developmental and Educational Services (BDES), New Bedford, MA

57 107.057 ASD Database Development within the Uk's National Health Service, for Service Evaluation/Research Purposes D. Wimpory[1] and B. Nicholas[2], (1)Penrallt Road, Bangor University & BCU Health Board, Bangor, United Kingdom, (2)Gwynedd LL57 2AS, Bangor University, Bangor, Wales, United Kingdom

58 107.058 Adults on the Spectrum Sharing Success: A Model E. Francis[1], B. V. Parsons[2], R. J. Wuebker[3], K. J. Cottle[4], A. R. Asman[5], J. Viskochil[4] and W. M. McMahon[4], (1)University of Utah, Salt Lake City, UT, (2)Psychiatry Adjunct, University of Utah, Salt Lake City, UT, (3)Management, University of Utah, Salt Lake City, UT, (4)Psychiatry, University of Utah, Salt Lake City, UT, (5)Department of Psychiatry, University of Utah, Salt Lake City, UT

59 107.059 Are We Failing the M-CHAT? Self-Assessment in a Diverse Community Sample C. B. Nadler[1,2], C. Low-Kapalu[1], L. Pham[1] and S. S. Nyp[1,2], (1)Developmental and Behavioral Sciences, Children's Mercy Kansas City, Kansas City, MO, (2)University of Missouri - Kansas City School of Medicine, Kansas City, MO

60 ▸ 107.060 Autism Research: Contribution from the Arab WORLD F. Alnemary[1], Y. Alamri[2] and F. Alnemary[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of Otago, New Zealand, Los Angeles, CA

61 107.061 Barriers to Early Diagnosis in Children with Autism Spectrum Disorder: Preliminary Results S. N. Brasher and J. Elder, College of Nursing University of Florida, Gainesville, FL

62 107.062 Bridging the Gap: Primary Care Physician Self-Efficacy in Assessing and Treating Sleep Problems in Children with ASD K. S. Kwedar[1], C. R. Engelhardt[1], N. C. Cheak-Zamora[1], M. O. Mazurek[1] and K. Sohl[2], (1)University of Missouri, Columbia, MO, (2)Child Health, University of Missouri - Thompson Center, Columbia, MO

63 107.063 Characterizing Parent Influence in the Diagnosis of ASD P. Colatat[1], Y. Qian[2], M. L. Massolo[2] and L. A. Croen[2], (1)Olin Business School, Washington University in St Louis, St Louis, MO, (2)Division of Research, Kaiser Permanente Northern California, Oakland, CA

64 107.064 Community General Pediatricians' Barriers to Providing Autism Spectrum Disorder Diagnoses: A Qualitative Study G. King[1], M. Penner[2], E. Anagnostou[3], M. Shouldice[4] and C. Moore Hepburn[5], (1)Bloorview Research Institute, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Hospital for Sick Children, Toronot, ON, Canada, (5)Division of Paediatric Medicine, Hospital for Sick Children, Toronto, ON, Canada

65 107.065 Comparison of Adults with Autism Spectrum Disorder with and without a Guardian N. K. Naylor[1], H. Coon[2], D. A. Bilder[2], L. Francis[1] and W. M. McMahon[2], (1)S.J. Quinney College of Law, University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT

66 107.066 Cost-Effectiveness Evaluation for Services Provided to People with Autism: Update and Recommendations J. M. Tilford[1] and N. Payakachat[2], (1)Dept. of Health Policy and Management, University of Arkansas for Medical Sciences, Little Rock, AR, (2)Pharmacy Practice, University of Arkansas for Medical Sciences, Little Rock, AR

67 107.067 Development and Preliminary Validation of a New Scale to Measure the Social Validity of Skill Building Interventions for Autism Spectrum Disorder N. I. Berger[1] and B. Ingersoll[2], (1)Michigan State University, East Lansing, MI, (2)Psychology, Michigan State University, East Lansing, MI

68 107.068 Development of the Autism Family Navigator: A Pilot Study on Barriers to Care T. Savion-Lemieux[1], L. Girouard[2], L. Stern[3], M. Steiman[4], R. Simon[5], L. Fernandez[6] and M. Elsabbagh[7], (1)Psychiatry, McGill University, Montreal, QC, Canada, (2)2155 Guy Street, 5th Floor, McGill University Health Centre - Research Institute, Montreal, QC, Canada, (3)Montreal Children's Hospital, Montreal, QC, Canada, (4)Psychology, The Montreal Children's Hospital-McGill University Health Centre, Montreal, QC, Canada, (5)Psychology, Montreal Children's Hospital - McGill University Health Centre, Montreal, QC, Canada, (6)Montreal Children's Hospital - McGill University Health Centre, Montreal, QC, Canada, (7)McGill University, Montreal, PQ, Canada

69 107.069 Developmental Trajectories Diverted: Empowering Frontline Community Childcare Providers to Support Children's Social Communication Development through a Coach-the-Coach Model S. M. Ziegler[1], S. K. Fuhrmeister[1], E. Brooker Lozott[2], C. Payne[3], T. D. Ryan[4] and J. Stapel-Wax[5], (1)Infant and Toddler Community Outreach Program, Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (3)Marcus Austim Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center,Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (5)Marcus Autism Center, Atlanta, GA

70 107.070 Early Intervention Service Providers Knowledge and Use of Intervention Practices J. M. Paynter[1] and D. Keen[2], (1)AEIOU Foundation, Moorooka, Australia, (2)Autism Centre of Excellence, Griffith University, Mt Gravatt, Aust

WITHDRAWN

71 107.071 Evaluation of a Parent-Response Scale to Measure the Progress of Children with ASD in State Early Intervention Programs B. Elbaum[1], D. M. Noyes-Grosser[2], K. Siegenthaler[3], R. G. Romanczyk[4], R. N. Cavalari[5], R. L. Carter[6], J. D. Dare[7] and A. L. Barczykowski[8], (1) Department of Teaching and Learning, University of Miami, Coral Gables, FL, (2)Bureau of Early Intervention, New York State Department of Health, Albany, NY, (3)Bureau of Early Intervention, New York Department of Health, Albany, NY, (4)Department of Psychology, State University of NY at Binghamton, Binghamton, NY, (5)State University of NY at Binghamton, Binghamton, NY, (6)Department of Biostatistics, State University of New York at Buffalo, Buffalo, NY, (7)Population Health Observatory, State University of NY at Buffalo, Buffalo, NY, (8)State University of NY at Buffalo, Buffalo, NY

72 107.072 Examining System-Level Resources in Building Employment Capacity for Adults with ASD D. B. Nicholas[1], L. Zwaigenbaum[2], M. Clarke[3], K. P. Stoddart[4], B. Muskat[5], W. Roberts[6], M. Spoelstra[7], S. Duhaime[4], H. Emery[8], L. Ghali[9], D. Barrett[10], L. Parakin[11], C. Carroll[12], P. Mirenda[13], I. M. Smith[14] and T. Jackman[15], (1)University of Calgary, Edmonton, AB, Canada, (2)University of Alberta, Edmonton, AB, Canada, (3)Pediatrics, University of Calgary, Calgary, AB, Canada, (4)The Redpath Centre, Toronto, ON, Canada, (5)Social Work, The Hospital for Sick Children, Toronto, ON, Canada, (6)Pediatrics, University of Toronto, Toronto, ON, Canada, (7)Autism Ontario, Toronto, ON, Canada, (8)University of Calgary, Calgary, AB, Canada, (9)The Ability Hub, Calgary, AB, Canada, (10)Autism Society Alberta, Edmonton, AB, Canada, (11)Autism Calgary Association, Calgary, AB, Canada, (12)Autism Nova Scotia, Halifax, NS, Canada, (13)University of British Columbia, Vancouver, BC, Canada, (14)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (15)Autism Society Canada/Autism Society Newfoundland and Labrador, St. John's, NF, Canada

73 107.073 Examining the Overlap of School Disciplinary Action, Hospitalization, and Police Contact in Individuals with Autism Spectrum Disorder: Predictable Factors for Preventable Outcomes P. F. Turcotte[1], L. J. Shea[1] and D. S. Mandell[2], (1)A.J. Drexel Autism Institute, Philadelphia, PA, (2)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA

74 107.074 Factors Affecting Caregiver Satisfaction with a Family-Centered Evaluation for Autism Spectrum Disorder (ASD) E. Bernabe[1] and L. Dewey[2], (1)Behavioral Health, Nemours/Alfred I. duPont Hospital for Children, Wilmington, DE, (2)Nemours/Alfred I duPont Hospital for Children, Wilmington, DE

75 107.075 Home and Community Based Services Waivers for Children with Autism Spectrum Disorder D. L. Velott[1], E. Agbese[1], D. S. Mandell[2], B. D. Stein[3,4], A. W. Dick[3], H. Yu[3] and D. L. Leslie[1,5], (1)Public Health Sciences, Penn State Hershey College of Medicine, Hershey, PA, (2)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA, (3)RAND, Pittsburgh, PA, (4)University of Pittsburgh School of Medicine, Pittsburgh, PA, (5)Psychiatry, Penn State Hershey College of Medicine, Hershey, PA

76 107.076 Identifying Interventions for Dissemination and Implementation Research Using the National Database for Autism Research (NDAR): Promises and Pitfalls N. Payakachat[1] and J. M. Tilford[2], (1)Pharmacy Practice, University of Arkansas for Medical Sciences, Little Rock, AR, (2)Dept. of Health Policy and Management, University of Arkansas for Medical Sciences, Little Rock, AR

77 107.077 Imprinting Variation in the Diagnosis of ASD at Two Specialty Clinics P. Colatat[1], Y. Qian[2], M. L. Massolo[2] and L. A. Croen[2], (1)Olin Business School, Washington University in St Louis, St Louis, MO, (2)Division of Research, Kaiser Permanente Northern California, Oakland, CA

78 ▸ 107.078 Improving Early Access to Care in Underserved Communities A. D. Norton[1], M. Zuniga[2] and J. Harris[2], (1)Autism, Children's Specialized Hospital, Mountainside, NJ, (2)Children's Specialized Hospital, Mountainside, NJ

79 107.079 Improving the Patient Experience for Families of Children with Autism Spectrum Disorder through Use of an Autism-Specific Care Plan S. broder-Fingert[1], A. M. Shui[2], C. Ferrone[3], K. Donelan[4], A. M. Neumeyer[5] and K. Kuhlthau[6], (1)Boston University School of Medicine, Newton, MA, (2)Biostatistics Center, Massachusetts General Hospital, Boston, MA, (3)Lurie Center for Autism, Lexington, MA, (4)Mongan Institute for Health Policy, Massachusetts General Hospital, Boston, MA, (5)Pediatrics, Lurie Center for Autism Massachusetts General Hospital, Lexington, MA, (6)Department of Pediatrics, Massachusetts General Hospital, Boston, MA

80 ▸ 107.080 Mapping the Diagnosis of Autism Spectrum Disorders By Age 7 in Australia: 2010 – 2012 C. A. Bent[1], C. Dissanayake[2] and J. Barbaro[3], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Victoria, Australia

81 107.081 Meta-Analysis of Community-Based Early Intervention Programs for Children with Autism Spectrum Disorders A. S. Nahmias[1,2], D. S. Mandell[3] and J. Pereira[1], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Psychology, University of Pennsylvania, Philadelphia, PA, (3)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA

82 ▸ 107.082 Missed Opportunities: Use of Early Services and Age of ASD Diagnosis Among African American Children S. S. Richardson, S. E. Barnum, T. Hamner, J. P. Berman and C. A. Saulnier, Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

83 107.083 Patterns of Psychiatric Comorbidity in a Sample of School-Aged Children with Autism Spectrum Disorder Receiving Community and School Based Mental Health Services N. Stadnick[1], C. Chlebowski[1], M. Baker-Ericzen[2], M. Dyson[1] and L. Brookman-Frazee[1], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, Rady Children's Hospital, San Diego, San Diego, CA

84 107.084 Provider Practices Regarding the Treatment Referrals and Recommendations Made to Parents of a Child with ASD K. Pickard[1] and B. Ingersoll[2], (1)Michigan State University, East Lansing, MI, (2)Psychology, Michigan State University, East Lansing, MI

85 ▸ 107.085 Reducing Disparities in Timely Autism Diagnosis through Family Navigation E. Feinberg[1,2], M. Augustyn[1], K. Devlin[2], J. Sandler[2], Y. Linhart[1] and M. Silverstein[1], (1)Department of Pediatrics, Boston University School of Medicine, Boston, MA, (2)Department of Community Health Sciences, Boston University School of Public Health, Boston, MA

86 107.086 Relations Among School Professionals' Knowledge, Previous Experience, and Self-Efficacy for Working with Students with ASD L. L. Corona[1], M. L. Rinaldi[1] and K. V. Christodulu[2], (1)University at Albany, SUNY, Albany, NY, (2)Center for Autism and Related Disabilities, University at Albany, SUNY, Albany, NY

87 107.087 Supporting Students with ASD in the Inclusive Classroom: Teacher Perspectives M. Sreckovic[1], T. Schultz[2], H. Able[3] and T. White[4], (1)Frank Porter Graham Child Development Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Special Education, University of Wisconsin-Whitewater, Whitewater, WI, (3)School of Education, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC

88 ▸ 107.088 The Effectiveness of an ABA Training Workshop for Teachers and Health Care Professionals in China C. Wang[1], D. Yip[2], N. Dunn[3] and P. Bains[4], (1)School of Medicine, Nankai University, Tianjin, China, (2)P.L.A.I. Behaviour Consulting, HongKong, Hong Kong, (3)BCBA, Burnaby, BC, Canada, (4)BCBA, Vancouver, BC, Canada

89 107.089 The Effects of Medicaid Home and Community-Based Services Waivers on Unmet Needs of Children with Autism Spectrum Disorder D. L. Leslie[1,2], K. Iskandarani[1], A. W. Dick[3], B. D. Stein[3,4], D. L. Velott[1] and D. S. Mandell[5], (1)Public Health Sciences, Penn State Hershey College of Medicine, Hershey, PA, (2)Psychiatry, Penn State Hershey College of Medicine, Hershey, PA, (3)RAND, Pittsburgh, PA, (4)University of Pittsburgh School of Medicine, Pittsburgh, PA, (5)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA

90 107.090 Timeliness of Autism Spectrum Disorder Diagnosis and Subsequent Use of Services K. E. Zuckerman[1], O. Lindly[1,2] and B. K. Sinche[1], (1)Pediatrics, Oregon Health & Science University, Portland, OR, (2)Public Health, Oregon State University, Corvallis, OR

91 107.091 Trajectories of School-Based Services for Youth with ASD C. J. Spaulding[1], J. A. Gates[1], K. D. Gadow[1] and M. D. Lerner[2], (1)Stony Brook University, Stony Brook, NY, (2)Psychology, Stony Brook University, Stony Brook, NY

92 107.092 Using Parents' and Children's Input to Inform a Peer-Mediated Intervention for Young School-Aged Children with Autism Spectrum Disorder M. Kerr[1], A. Boudreau[2] and I. M. Smith[3], (1)Mount Saint Vincent University, Halifax, NS, Canada, (2)Dalhousie University, Halifax, NS, Canada, (3)Dalhousie University / IWK Health Centre, Halifax, NS, Canada

93 107.093 Using a Wireless Measure of Electrodermal Activity: Comparisons to Traditional Wired Equipment L. Stein[1], T. Chaspari[2], S. A. Cermak[1], S. Narayanan[2], A. Schell[3] and M. E. Dawson[4], (1)Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (2)Signal Analysis and Interpretation Lab (SAIL), University of Southern California, Los Angeles, CA, (3)Psychology, Occidental College, LA, CA, (4)Psychology, University of Southern California, Los Angeles, CA

94 107.094 Variables Associated with Coverage for Educational, Mental Health, and Medical Services in Autism Spectrum Disorder S. J. Lee, J. W. Lee, L. Kraus and L. V. Soorya, Psychiatry, Rush University Medical Center, Chicago, IL

Poster Session
108 - Brain Function
11:30 AM - 1:30 PM - Imperial Ballroom

95 108.095 Changes in Parietal Cortex Response in Children with Autism Followed By a Visualizing Reading Intervention J. O. Maximo, D. L. Murdaugh, A. R. Lemelman, S. E. O'Kelley and R. K. Kana, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL

96 108.096 Abnormal Induced Neural Oscillations in 16p11.2 Deletions and Duplications S. S. Nagarajan[1], L. B. Hinkley[2], C. L. Dale[3], A. Findlay[1], T. Luks[1], P. Bukshpun[1], T. Thieu[4], N. Pojman[5], E. Marco[6], S. Khan[7], K. Heiken[8], S. Qasmieh[8], W. Chung[9], P. Mukherjee[1], R. L. Buckner[10], T. P. Roberts[11] and E. H. Sherr[6], (1)UCSF, San Francisco, CA, (2)UCSF Autism & Neurodevelopment Program, San Francisco, CA, (3)Radiology and Biomedical Imaging, UCSF, San Francisco, CA, (4)Neurology, UCSF, San Francisco, CA, (5)Neurology, Radiology, UCSF, San Francisco, CA, (6)University of California, San Francisco, San Francisco, CA, (7) CHOP, Philadelphia, PA, (8)Radiology, Children's Hospital of Philadelphia, Philadelphia, PA, (9)Pediatrics, Columbia University, New York, NY, (10) Harvard University, Cambridge, MA, (11)Children's Hospital of Philadelphia, Philadelphia, PA

97 108.097 Searching for Neuroimaging Targets for Interventions in ASD K. Pelphrey, D. Yang, D. G. Sukhodolsky, M. J. Crowley, D. Oosting, H. E. Friedman, C. M. Keifer and P. Ventola, Child Study Center, Yale University, New Haven, CT

98 108.098 Thalamo-Cortical Underconnectivity during Sensory Stimulation in Youth with ASD S. A. Green[1], L. M. Hernandez[2], S. Y. Bookheimer[1] and M. Dapretto[3], (1)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (2)Interdepartmental Neuroscience Program, UCLA, Los Angeles, CA, (3)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA

99 108.099 Self-Related Processing and Its Reflections in Memory: An fMRI Study of Youth with and without ASD R. S. Brezis[1], L. S. McKay[2], T. Galili[3], T. Wong[4] and J. Piggot[5], (1)School of Psychology, Interdisciplinary Center, Herzliya, Herzliya, Israel, (2)University of Dundee, Dundee, United Kingdom, (3)Department of Statistics and Operations Research, Tel Aviv University, Tel Aviv, Israel, (4)Department of Radiology, University of Washington, Seattle, WA, (5)Department of Psychiatry, University of Dundee, Dundee, United Kingdom

100 108.100 A Pilot Neuroimaging Study of Phelan Mcdermid Syndrome A. T. Wang[1,2,3], T. Lim[1,2], J. M. Jamison[1], L. A. Bush[1], L. V. Soorya[4], A. Kolevzon[1,2,5] and J. D. Buxbaum[1,2,3,6], (1)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Fishberg Department of Neuroscience, Icahn School of Medicine at Mount Sinai, New York, NY, (4)Psychiatry, Rush University Medical Center, Chicago, IL, (5)Pediatrics, Icahn School of Medicine at Mount Sinai, New York, NY, (6)Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, NY

Poster Session
109 - Cognition: Attention, Learning, Memory
11:30 AM - 1:30 PM - Imperial Ballroom

101 109.101 A Child-Friendly Eye-Tracking Paradigm Reveals Impaired Implicit Repetition Learning in Adults and Children with ASD S. B. Gaigg[1], E. Jones[2], A. Roestorf[1], D. M. Bowler[1] and C. T. Derwent[1], (1)Autism Research Group, City University London, London, United Kingdom, (2)Birkbeck College, University of London, London, United Kingdom

102 109.102 A Meta-Analysis of the Wisconsin Card Sort Task in Autism O. Landry[1] and S. Al-Taie[2], (1)La Trobe University, Bendigo, Australia, (2)McMaster University, Hamilton, ON, Canada

103 109.103 Absent Optimism Bias in Updating Beliefs about Future Life Events in Adults with High-Functioning Autism B. Kuzmanovic[1] and K. Vogeley[2], (1)Institute of Neuroscience and Medicine: Ethics in the Neurosciences (INM-8), Research Center, Juelich, Germany, (2)Department of Psychiatry and Psychotherapy, University Hospital Cologne, Cologne, Germany

WITHDRAWN

104 109.104 Accuracy, Response Time and Visual Search Strategies of Adolescents with and without Autism Spectrum Disorder during a Disembedding Task T. Falkmer, Curtin University, Perth, WA, Australia

105 109.105 An Eye-Tracking Study of Visual Attention to Human Faces and Nonhuman Graphics in Children with Autism Spectrum Disorders C. Wang[1] and H. Zheng[2], (1)School of Medicine, Nankai University, Tianjin, China, (2)Department of Social psychology, Nankai University, Tianjin, China

106 109.106 Assessing Tactile Perceptual Inference and Learning in Autism Spectrum Disorders L. A. Sapey-Triomphe[1], G. Sanchez[2], S. Sonié[1], M. A. Henaff[1], C. Schmitz[1] and J. Mattout[1], (1)Lyon Neuroscience Research Center, Lyon, France, (2)University of Trento, Center for Mind/ Brain Sciences, Rovereto, Italy

107 109.107 Assessing the Use of Eye-Blinking As a Measure of an Individual's Engagement with Ongoing Visual Content C. Ranti[1], W. Jones[1], G. J. Ramsay[1], A. Klin[1] and S. Shultz[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

108 109.108 Attention Biases in Anxious Youth with Co-Occurring ASD Symptoms R. J. Mercado[1], C. M. Kerns[2] and P. C. Kendall[1], (1)Temple University, Philadelphia, PA, (2)Drexel University, Philadelphia, PA

109 109.109 Attention Does Not Modulate the Imitation of Biological Motion Kinematics in Autism Spectrum Disorders S. J. Hayes[1], M. Andrew[1], D. Elliott[1,2] and S. J. Bennett[1], (1)Research Institute for Sport and Exercise Sciences, Liverpool John Moores University, Liverpool, United Kingdom, (2)Department of Kinesiology, McMaster University, Hamilton, ON, Canada

110 109.110 Attentional Sensitivity to Features of Angry Faces and Domain-General Cognitive Characteristics T. Isomura[1], S. Ogawa[2] and N. Masataka[3], (1)Primate Research Institute, Inuyama, Aichi, Japan, (2)Kyoto University, Graduate School of Medicine, Kyoto, Japan, (3)Kyoto University, Primate Research Institute, Inuyama, Aichi, Japan

111 109.111 Atypical Binocular Rivalry Dynamics of Simple and Complex Stimuli in Autism J. Freyberg[1], C. Robertson[2] and S. Baron-Cohen[3], (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)Harvard University, Cambridge, MA, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

112 109.112 Behavioral Differences in Reward Salience but Not Motivation in Toddlers with ASD: Results from a Visual Search Task C. McCormick[1], G. S. Young[2], J. Bernstein[3] and S. J. Rogers[4], (1) Brown University, Providence, RI, (2)MIND Institute, University California Davis, Sacramento, CA, (3)MIND Institute, University of California, Davis, Sacramento, CA, (4)University of California at Davis, Sacramento, CA

113 109.113 Bootstrapping the Hippocampus? Atypical Learning Characterizes Adolescents with Autism Spectrum Disorders J. McCauley[1], T. A. Lesh[2], T. A. Niendam[2], J. S. Beck[2], C. S. Carter[2,3], J. D. Ragland[2,3] and M. Solomon[2], (1)Department of Human Development, University of California-Davis, Davis, CA, (2)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, Sacramento, CA, (3)Center for Neuroscience, University of California-Davis, Davis, CA.

114 109.114 Brain Organization Underlying Superior Math Problem Solving Abilities in Children with Autism T. Iuculano, K. Supekar and V. Menon, Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

115 109.115 Building a Percept: Early Influences on Mid and Higher-Level Visual Abilities in Autism Spectrum Disorder J. Guy[1,2], L. Mottron[3], C. Berthiaume[3] and A. Bertone[1,3,4], (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)Integrated Program in Neuroscience, McGill University, Montreal, QC, Canada, (3)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (4)School/Applied Child Psychology, Educational and Counseling Psychology, McGill University, Montreal, QC, Canada

116 109.116 Cognitive Control of Visual Attention in ASD in Response to Social and Non-Social Stimuli A. S. DiCriscio[1,2], S. Miller[3], M. L. Kovac[4], E. Hanna[5] and G. S. Dichter[6], (1)University of North Carolina-Chapel Hill, Chapel Hill, NC, (2)Geisinger-ADMI, Lewisburg, PA, (3)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Carrboro, NC, (4)Carolina Institute for Developmental Disabilities- UNC Chapel Hill, Chapel Hill, NC, (5)Duke University, Durham, NC, (6)University of North Carolina, Chapel Hill, NC

117 109.117 Colour Perception in Autism and Williams Syndrome M. B. Cranwell[1], D. M. Riby[2], A. S. Le Couteur[3] and A. C. Hurlbert[1], (1) Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (2)Department of Psychology, Durham University, Durham, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom

118 109.118 Concurrent and Longitudinal Predictors of Theory of Mind in TD Children and Children with ASD T. D'souza[1], C. Navarro-Torres[2], D. A. Fein[1] and L. Naigles[1], (1)University of Connecticut, Storrs, CT, (2)Pennsylvania State University, University Park, PA

119 109.119 Contextual Influences on Eccentric Viewing in Young Children with ASD G. S. Doneddu[1], S. Congiu[1], D. Corda[2], G. Baldus[2], L. Ferretti[1], G. Saba[1], D. Serra[1] and R. Fadda[3], (1)Center for Autism Spectrum Disorder, Azienda Ospedaliera Brotzu, Cagliari, Italy, (2)BalCor s.n.c., San Sperate, Italy, (3)Department of Pedagogy, Psychology, Philosophy, University of Cagliari, Cagliari, Italy

120 109.120 Decreased Habituation to Naturalistic Stimuli in Autism A. L. Cardinaux[1], H. Nejati[2], C. K. Rogers[3], K. Tsourides[2], T. K. Gandhi[4], M. M. Kjelgaard[5] and P. Sinha[2], (1)Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, (2)Brain and Cognitive Sciences, MIT, Cambridge, MA, (3)Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, (4)Defence Institute of Physiology and Allied Sciences, New Delhi, India, (5)MGH Institute of Health Professions, Boston, MA

121 109.121 Distribution of Visual Attention When Comparing Paired Faces in Typically Developing Infants and Infants Later Diagnosed with Autism K. M. Hauschild[1] and M. S. Strauss[2], (1)The University of Pittsburgh, Pittsburgh, PA, (2)University of Pittsburgh, Pittsburgh, PA

122 109.122 Do Children with Autism Change Their Behaviour in Response to Volatility in the Environment? C. Manning[1,2], E. Pellicano[2], T. Karaminis[2], L. E. Neil[2] and J. Kilner[3], (1)Department of Experimental Psychology, University of Oxford, Oxford, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), Institute of Education, London, United Kingdom, (3)University College London, Institute of Neurology, London, United Kingdom

123 109.123 Do Children with Autism Show Reduced Susceptibility to Visual Illusions? C. T. Allen[1], C. Manning[1,2], M. J. Morgan[3,4] and E. Pellicano[1], (1)Centre for Research in Autism and Education (CRAE), Institute of Education, London, United Kingdom, (2)Department of Experimental Psychology, University of Oxford, Oxford, United Kingdom, (3)City University, London, United Kingdom, (4)Max Planck Institute for Neurological Research, Cologne, Germany

124 ▸ 109.124 Do Individuals with Autism Spectrum Disorder Process Own- and Other-Race Faces Differently? L. Yi[1], P. Quinn[2], C. Feng[3] and K. Lee[4], (1)Sun Yat-sen University, Sun Yat-sen University, Guangzhou, Guangdong, China, (2)University of Delaware, Newark, DE, (3)Sun Yat-sen University, Guangzhou, China, (4)Dr. Eric Jackman Institute of Child Study, University of Toronto, Toronto, ON, Canada

125 ▸ 109.125 Does Being Bilingual Impact Executive Functions in Autism Spectrum Disorders? A. M. Gonzalez Barrero and A. Nadig, School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada

126 109.126 Downcast Gaze and Hypersensitivity to Direct Gaze in Young Children with ASD S. Congiu[1], R. Fadda[2], D. Corda[3], G. Baldus[3], D. Serra[1], L. Ferretti[1], G. Saba[1] and G. S. Doneddu[1], (1)Center for Autism Spectrum Disorder, Azienda Ospedaliera Brotzu, Cagliari, Italy, (2)Department of Pedagogy, Psychology, Philosophy, University of Cagliari, Cagliari, Italy, (3)BalCor s.n.c., San Sperate, Italy

127 109.127 Evaluating Gender Differences in Perceptual Profiles of Individuals with Autism Spectrum Disorder E. Marcil[1,2], J. Guy[2,3], L. Mottron, M.D.[4] and A. Bertone[2,5,6], (1)School/Applied Child Psychology, Department of Educational and Counseling Psychology, McGill University, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (3)Integrated Program in Neuroscience, McGill University, Montreal, QC, Canada, (4)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montréal, QC, Canada, (5)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (6)School/Applied Child Psychology, Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada

128 109.128 Examining Attentional Bias for Facial Features Across Development and in Autism K. A. Dalrymple[1], N. Wall[2], M. L. Spezio[3], H. C. Hazlett[4], J. Piven[5] and J. T. Elison[6], (1)Institute of Child Development, University of MInnesota, Minneapolis, MN, (2)University of Minnesota, Minneapolis, MN, (3)Psychology, Scripps College, Claremont, CA, (4)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)Institute of Child Development, University of Minnesota, Minneapolis, MN

129 109.129 Exploring the Clinical and Cognitive Phenotype of Child Savants with ASD P. Ha[illegible] L. Bennett, Psychology, Goldsmiths College, University of London, London, United Kingdom

WITHDRAWN

130 109.130 Exploring the Driving Behavior of Young Novice Drivers with an Autism Spectrum Disorder: A Driver Instructor Questionnaire V. Ross[1], E. Jongen[2], M. Vanvuchelen[3], T. Brijs[2], K. Brijs[2,4] and G. Wets[2], (1)Transportation research Institute (IMOB), Hasselt University, Diepenbeek, Belgium, (2)Transportation Research Institute (IMOB), Hasselt University, Diepenbeek, Belgium, (3)Hasselt University Faculty of Medicine and Life Sciences, Diepenbeek, Belgium, (4)Faculty of Applied Engineering Sciences, Hasselt University, Diepenbeek, Belgium

131 109.131 Exploring the Role of Verbal Mediation in Executive Functioning in Children with Autism I. Gangopadhyay[1], M. Buac[2], E. K. Haebig[2], M. M. Davidson[2], M. Kaushanskaya[2] and S. Ellis-Weismer[2], (1)Communication Sciences & Disorders, Univeristy of Wisconsin-Madison, Madison, WI, (2)Communication Sciences & Disorders, University of Wisconsin-Madison, Madison, WI

132 109.132 Extending the Characterization of Semantics in ASD to Non-Verbal Domains K. Steinman[1,2], M. K. Askren[3], T. Ward[4], J. E. Elgin[5], J. Wenegrat[6], R. K. Earl[2], R. Bernier[2] and T. J. Grabowski[3], (1)Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Radiology, University of Washington, Seattle, WA, (4)Clinical Psychology, Seattle Pacific University, Seattle, WA, (5)Seattle Children's Autism Center, Bothell, WA, (6)University of Washington Autism Center, Seattle, WA

133 109.133 Familiarity and Affect in Adolescents with Autism Spectrum Disorder J. H. Filliter[1], M. Kerr[2] and S. A. Johnson[3], (1)IWK Health Centre, Halifax, NS, Canada, (2)Dalhousie University, Halifax, NS, Canada, (3)Department of Psychology and Neuroscience, Dalhousie University, Halifax, NS, Canada

134 109.134 Habituation Speed and Novelty Preference to Faces in Preschoolers with ASD S. Ghods[1], C. Healy[2], B. L. Zappone[3], S. Corrigan[4], E. Jones[5], K. Toth[3] and S. J. Webb[6], (1)Center for Child Health, Behavior and Development, Seattle Children's Research Institute, Seattle, WA, (2)Child, Health Behavior and Development, Seatle Children's Research Institute, Seattle, WA, (3)Seattle Children's Research Institute, Seattle, WA, (4)Child Health, Behavior, and Development, Seattle Children's Research Institute, Seattle, WA, (5)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom, (6)Psychiatry and behavioral sciences, University of Washington, Seattle, WA

135 109.135 Hazard Perception Abilities of Young Novice Drivers with an Autism Spectrum Disorder: A Driving Simulator Study V. Ross[1], E. Jongen[2], M. Vanvuchelen[3], T. Brijs[2], K. Brijs[4] and G. Wets[2], (1)Transportation research Institute (IMOB), Hasselt University, Diepenbeek, Belgium, (2)Transportation Research Institute (IMOB), Hasselt University, Diepenbeek, Belgium, (3)Hasselt University Faculty of Medicine and Life Sciences, Diepenbeek, Belgium, (4)Faculty of Applied Engineering Sciences, Hasselt University, Diepenbeek, Belgium

136 109.136 How Genetically Induced Enhanced Synaptic Plasticity and Regional Cortical Rededications Account for Autistic Superior Performances: The Trigger-Threshold-Target-Neglect Model for Autism L. Mottron[1], P. Duret[2], O. Collignon[2], L. Xiong[2] and F. Samson[2], (1)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Psychiatry, Clinique spécialisée de l'autisme, Montréal, QC, Canada

137 109.137 Individual Cognitive Strengths and Weaknesses in Autism Spectrum Disorders: Diversity Is the Rule D. H. Skuse[1], W. Mandy[1] and M. Murin[2], (1)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom, (2)Great Ormond Street Hospital, London, United Kingdom

138 109.138 Integration of Visual and Proprioceptive Perception of Movement Kinematics in Children with and without Autism Spectrum Disorder N. Salowitz[1], A. V. Van Hecke[2] and R. A. Scheidt[1], (1)Biomedical Engineering, Marquette University, Milwaukee, WI, (2)Marquette University, Milwaukee, WI

139 109.139 Intolerance of Uncertainty, but Not Anxiety, Predicts Sensory Sensitivities in Autism L. E. Neil[1], N. Choque Olsson[2] and E. Pellicano[1], (1)Centre for Research in Autism and Education (CRAE), Institute of Education, London, United Kingdom, (2)Karolinska Institutet, Pediatric Neuropsychiatry Unit, Department of Women's and Children's Health, Stockholm, Sweden

140 109.140 Isolating Visual- and Proprioception-Based Generalization of Motor Learning in Autism Spectrum Disorder E. Sharer[1], S. H. Mostofsky[1,2,3], L. M. Oberman[4,5] and A. Pascual-Leone[4,5], (1)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (2)Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, (3)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (4) Department of Neurology, Berenson-Allen Center for Noninvasive Brain Stimulation, Beth Israel Deaconess Medical Center, Boston, MA, (5)Harvard Medical School, Boston, MA

141 109.141 Item-Memory for Words, Pictures, Abstract Shapes and Nonsense-Words in Adults with Autism Spectrum Disorder M. Ring, S. B. Gaigg and D. M. Bowler, Autism Research Group, City University London, London, United Kingdom

142 109.142 Joint Action Coordination in Children with Autism Spectrum Disorder F. Fulceri[1], A. Tonacci[2], F. Apicella[3], A. Narzisi[4], L. Billeci[5], F. Muratori[6] and A. Contaldo[6], (1)Stella Maris Foundation, Pisa, Italy, Pisa, Italy, (2)Clinical Physiology Institute, CNR, Pisa, Italy, (3)"Fondazione Stella Maris" Scientific Institute, Pisa, Italy, (4)University of Pisa – Stella Maris Scientific Institute, Pisa, PI, Italy, (5)National Research Council of Italy (CNR), Pisa, Italy, (6)Stella Maris Scientific Institute, Calambrone (Pisa), Italy

143 109.143 Joint Attention and Information Processing in Higher Functioning ASD P. C. Mundy, 2825 50Th Street, UC Davis, Sacramento, CA

144 109.144 Longitudinal Changes from 11 to 16 Months in Visual Attention to Dynamic Social Scene Among Infants at High and Low Genetic Risk for Autism L. Sperle and M. S. Strauss, University of Pittsburgh, Pittsburgh, PA

145 109.145 Mental Rotation: A High-Level Perceptual Strength of Young ASD Children Y. Yoshimura[1], L. Mottron[2,3], N. Takesaki[4], T. Takahashi[5], T. Hirosawa[4], N. Furutani[4], H. Hiraishi[5], C. Hasegawa[5], S. Kitagawa[5], Y. Minabe[5] and M. Kikuchi[5], (1)Kanazawa University, Kanazawa, Ishikawa, Japan, (2)University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada, (3)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (4)Department of Psychiatry and Neurobiology, Kanazawa University, Kanazawa, Japan, (5)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan

146 109.146 Negative Emotionality Disrupts Pattern Separation in Adults Diagnosed with Autism Spectrum Disorders E. Anderberg[1], C. Nielson[2], K. Stephenson[1], S. Atwood[2], M. South[3] and C. B. Kirwan[3], (1)Department of Psychology, Brigham Young University, Provo, UT, (2)Neuroscience Center, Brigham Young University, Provo, UT, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

147 109.147 Neural Correlates of Goal-Directed Reaching Movements in Children with Autism Spectrum Disorder N. Salowitz[1], A. V. Van Hecke[2], N. L. Johnson[3] and R. A. Scheidt[1,4], (1)Biomedical Engineering, Marquette University, Milwaukee, WI, (2)Psychology, Marquette University, Milwaukee, WI, (3)College of Nursing, Marquette University, Milwaukee, WI, (4)Neurology, Medical College of Wisconsin, Milwaukee, WI

148 109.148 Pitch Direction Perception Predicts the Ability to Detect Local Pitch Structure in Autism and Typical Development N. E. Foster[1], M. Sharda[1], E. Germain[1], R. Chowdhury[1], A. Tryfon[1,2], T. Ouimet[1,2], K. A. R. Doyle-Thomas[3], E. Anagnostou[3], K. L. Hyde[1,2] and NeuroDevNet ASD Imaging Group[4], (1)International Laboratory for Brain Music and Sound Research (brams.org), Université de Montréal, Montreal, QC, Canada, (2)Faculty of Medicine, McGill University, Montreal, QC, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)http://www.neurodevnet.ca/research/asd, Vancouver, BC, Canada

149 ▸ 109.149 Pitch Perception in Adults with Autism Spectrum Disorder Speaking a Tone Language G. Y. H. Lam[1], C. K. S. To[2], S. T. T. Cheng[2] and L. S. Iao[3], (1)Department of Educational and Psychological Studies, University of South Florida, Tampa, FL, (2)Division of Speech and Hearing Sciences, University of Hong Kong, Hong Kong, Hong Kong, (3)Division of Psychology, School of Social Sciences, Nottingham Trent University, Nottingham, United Kingdom

150 109.150 Playing Games with Your Eyes: An at-Home Video Gaming System for Training Attention Orienting in ASD L. Chukoskie[1], M. Westerfield[1] and J. Townsend[2], (1)Institute for Neural Computation, University of California, San Diego, La Jolla, CA, (2)Neurosciences, University of California, San Diego, La Jolla, CA

151 109.151 Privileged Role of Symbolic Number Sense in Mediating Math Abilities in Children with Autism M. Rosenberg-Lee[1], A. Hiniker[2] and V. Menon[3], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)Human Centered Design and Engineering, University of Washington, Seattle, WA, (3)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

152 109.152 Procedural Learning and Language Impairment: Evidence of a Deficit in Autism Spectrum Disorder with LI but Not in Specific Language Impairment H. Bani-Hani[1] and A. Nadig[2], (1)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada, (2)McGill University, Montreal, QC, Canada

153 109.153 Psychometric Properties of the Revised Executive Function Challenge Task (EFCT) L. Kenworthy[1], K. M. Dudley[2], Y. Granader[2], C. Luong-Tran[1], C. E. Pugliese[2], K. Harmon[3], J. F. Strang[2] and L. G. Anthony[2], (1)Children's National Medical Center, Rockville, MD, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Children's National, Rockville, MD

154 109.154 Reduced Anticipatory Responses during Dynamic Object Interactions in Autism A. L. Cardinaux[1], K. Tsourides[2], H. Nejati[2], D. Jin[3], T. K. Gandhi[4], M. M. Kjelgaard[5] and P. Sinha[2], (1)Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, (2)Brain and Cognitive Sciences, MIT, Cambridge, MA, (3)Massachusetts Institute of Technology, Cambridge, MA, (4)Defence Institute of Physiology and Allied Sciences, New Delhi, India, (5)MGH Institute of Health Professions, Boston, MA

155 109.155 Self-Referential Metacognition in Adolescents with ASD Learning Mathematics M. Brosnan[1], H. Johnson[1] and B. Grawemeyer[2], (1)University of Bath, Bath, United Kingdom, (2)Birkbeck College, London, United Kingdom

156 109.156 Skill Learning in Young Minimally-Verbal Children with Autism and the Effect of Vestibular Stimulation G. Katz-Nave[1], Y. Adini[2], O. Hetzroni[1] and Y. S. Bonneh[3], (1)Special Education, University of Haifa, Haifa, Israel, (2)Vision Research Inst., Kiron, Israel, (3)University of Haifa, Haifa, Israel

157 109.157 Superior Vocal Identity Memory in Autism I. F. Lin[1], T. Yamada[2], Y. Komine[3], N. Kato[3] and M. Kashino[1,4], (1)NTT Communication Science Laboratories, Atsugi, Japan, (2)Department of Psychiatry, Medical Institute of Developmental Disabilities Research, Showa University, Tokyo, Japan, (3)Medical Institute of Developmental Disabilities Research, Showa University, Tokyo, Japan, (4)Department of Information Processing, Tokyo Institute of Technology, Yokohama, Japan

158 109.158 The Co-Occurrence of Autistic and Dyspraxic Symptomatology in the General Population D. Smith, D. Ropar and H. A. Allen, School of Psychology, University of Nottingham, Nottingham, United Kingdom

159 109.159 The Cost of Attentional Engagement: Target Switching during Visual Search in 2-Year-Old Toddlers with ASD H. Smith, A. S. Carter, E. Blaser and Z. Kaldy, Department of Psychology, University of Massachusetts Boston, Boston, MA

160 109.160 The Go/No-Go Task Online: Evidence of an Inhibitory/Excitatory Imbalance in Autism in a Large Sample F. Uzefovsky[1], C. Allison[2], P. Smith[3] and S. Baron-Cohen[1], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Centre, Cambridge University, Cambridge, United Kingdom

161 109.161 The Relation Between Classical Conditioning and Prototype Learning in Individuals with ASD P. S. Powell[1], A. T. Meyer[2], L. G. Klinger[3] and M. R. Klinger[4], (1)University of North Carolina, Chapel Hill, NC, (2)Psychology, University of North Carolina, Chapel Hill, NC, (3)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (4)Allied Health Sciences, University of North Carolina, Chapel Hill, NC

162 109.162 The 'Reading the Mind in the Eyes' Test: Complete Absence of Typical Sex Differences in Performance in ~400 Men and Women with Autism S. Baron-Cohen[1], D. Bowen[2], R. Holt[2], C. Allison[3], B. Auyeung[1], M. V. Lombardo[4], P. Smith[2] and M. C. Lai[1], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Autism Research Centre, Cambridge University, Cambridge, United Kingdom, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (4)Department of Psychology, University of Cyprus, Nicosia, Cyprus

163 109.163 Thermal Pain Perception in Adults with Asperger Syndrome H. Haker[1,2], F. Hagenmuller[2,3] and W. Rössler[2,4], (1)Translational Neuromodeling Unit, University of Zurich and ETH Zurich, Zurich, Switzerland, (2)Collegium Helveticum, University of Zurich and ETH Zurich, Zurich, Switzerland, (3)Psychiatric University Hospital Zurich, Zurich, Switzerland, (4)Department of Psychiatry, Laboratory of Neuroscience (LIM-27), University of Sao Paulo, Sao Paulo, Brazil

164 109.164 Three Facets of Visual Orientation Processing in ASD F. Shafai[1,2], K. Armstrong[3], G. Iarocci[3] and I. Oruc[1], (1)Department of Ophthalmology & Visual Sciences, University of British Columbia, Vancouver, BC, Canada, (2)Graduate program in Neuroscience, University of British Columbia, Vancouver, BC, Canada, (3)Department of Psychology, Simon Fraser University, Burnaby, BC, Canada

165 109.165 Time Course of Facial Emotion Recognition in First-Degree Relatives of Individuals with ASD: An Eye-Tracking Study A. Lartseva[1], T. Dijkstra[2], F. Huettig[3] and J. K. Buitelaar[4], (1)Donders Centre for Neuroscience, Nijmegen, GE, Netherlands, (2)Donders Centre for Cognition, Radboud University Nijmegen, Nijmegen, Netherlands, (3)Psychology of Language Department, Max planck Institute for Psycholinguistics, Nijmegen, Netherlands, (4)Department of Cognitive Neuroscience, Radboud university medical center, Nijmegen, Netherlands

166 109.166 To See but Not to See: Visual Perception Mediates Imitation in ASD H. Stieglitz Ham[1], G. Rajendran[2], M. Corley[3], S. Vaz[1], M. Falkmer[1], A. Bartolo[4] and T. Falkmer[1], (1)Curtin University, Perth, Australia, (2)Heriot-Watt University, Edinburgh, Scotland, United Kingdom, (3)Psychology, PPLS, University of Edinburgh, Edinburgh, United Kingdom, (4)Psychologie, Laboratoire URECA, Université de Lille Nord de France, Lille, France

167 109.167 Transitive Inference in Children with Autism Spectrum Disorder and Limited Verbal Ability C. T. Derwent, S. B. Gaigg and D. M. Bowler, Autism Research Group, City University London, London, United Kingdom

168 109.168 Understanding of Prior Intention in the Children with Autistic Spectrum Disorder C. H. Chiang[1], C. T. Huang[2] and C. Y. Hung[2], (1)Department of Psychology, National Chengchi University, Taipei, Taiwan, (2)Psychology, National Chengchi University, Taipei, Taiwan

169 109.169 Use of an Experimental Design to Examine Factors That Contribute to Episodic Memory Deficits in Children with High Functioning Autism K. Zielinski, University of California, Los Angeles, Hermosa Beach, CA

170 109.170 Vertical but Not Oblique Line Orientation Discrimination Is Disturbed in ASD Children O. V. Sysoeva[1], M. S. Davletshina[2], E. Orekhova[1] and T. A. Stroganova[1], (1)MEG Centre, Moscow State University of Psychology and Education, Moscow, Russia, (2)MEG Center, Moscow State University of Psychology and Education, Moscow, Russia

171 109.171 Writing Ability and Working Memory in Children with Higher Functioning ASD M. C. Zajic[1], N. S. McIntyre[1], L. E. Swain-Lerro[2], T. Oswald[3] and P. C. Mundy[4], (1)UC Davis, Davis, CA, (2)School of Education, UC Davis, Santa Rosa, CA, (3)2825 50th Street, UC Davis, Sacramento, CA, (4)2825 50Th Street, UC Davis, Sacramento, CA

172 109.172 "Scattered Attention" in Face Perception: The Case of Co-Morbid ASD+ADHD J. Parish-Morris[1], B. E. Yerys[2], L. Antezana[3], A. de Marchena[3], C. Chevallier[3], N. J. Sasson[4] and R. T. Schultz[3], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Psychiatry, University of Pennsylvania, Philadelphia, PA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)University of Texas at Dallas, Richardson, TX

Poster Session
110 - Repetitive Behaviors and Interests
11:30 AM - 1:30 PM - Imperial Ballroom

173 110.173 Are Social Cognitive Deficits Relative in Autism? Examination Using a Social Versus Nonsocial Salience Paradigm K. Unruh[1,2], N. J. Sasson[3] and J. W. Bodfish[4,5], (1)Vanderbilt Brain Institue, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)University of Texas at Dallas, Richardson, TX, (4)Vanderbilt Brain Institute, Nashville, TN, (5)Vanderbilt University School of Medicine, Nashville, TN

174 110.174 Examining the Impact of Repetitive and Restricted Behaviors on Adaptive Functioning of Children with ASD S. Maisel[1], K. L. Campe[2] and E. Hanson[1], (1)Boston Children's Hospital, Boston, MA, (2)Developmental Medicine, Boston Children's Hospital, Boston, MA

175 110.175 Grit in Children and Adolescents with Autism Spectrum Disorder C. McMahon[1], J. Haut[2], R. Schatz[3], T. Otero[2] and A. Merrill[4], (1)3C Institute, Cary, NC, (2)Indiana University, Bloomington, IN, (3)Counseling and Educational Psychology, Indiana University, Bloomington, IN, (4)School Psychology, Indiana University, Bloomington, IN

176 110.176 Hobbies in Adults with ASD: An Exploratory Descriptive Analysis S. Pacey-Smith[1], B. A. D'Entremont[1], S. Nichols[2], S. D. Voyer[1] and S. Byers[1], (1)Psychology, University of New Brunswick, Fredericton, NB, Canada, (2)ASPIRE Center for Learning and Development, Melville, NY

177 110.177 Measuring Restricted Interests and Repetitive Behaviors in Infant Siblings at-Risk for ASD: Comparing Home Setting Versus Clinic Performance of 12 Month Olds N. Brane[1], M. Lewis[1], E. S. McGarry[1], K. Fiorello[1], S. E. Gillespie[2] and A. M. Wetherby[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Pediatrics, Emory University School of Medicine, Atlanta, GA, (3)Florida State University Autism Institute, Tallahassee, FL

178 110.178 Modeling Higher-Order Repetitive Behavior in the C58 Mouse Strain C. M. Whitehouse[1], R. L. Shafer[2] and M. H. Lewis[1], (1)University of Florida, Gainesville, FL, (2)Vanderbilt University, Nashville, TN

179 110.179 Obsessive and Circumscribed Patterns of Interest (OCPI) of Children with Autism Spectrum Disorder M. Verile[1], M. D. Forsythe[1], J. Shenouda[2] and W. Zahorodny[3], (1)Pediatrics, New Jersey Medical School- Rutgers University, Newark, NJ, (2)Rutgers New Jersey Medical School, Newark, NJ, (3)Pediatrics, Rutgers New Jersey Medical School, Newark, NJ

180 110.180 Repetitive Stereotyped Behaviour or "Stimming": An Online Survey of 100 People on the Autism Spectrum R. L. Steward, Robyn Steward, Suffolk, United Kingdom

181 110.181 Restrictive and Repetitive Behaviors in Young Children with Autism: M. Baker-Ericzen[1], M. Kinnear[1], M. Ballatore-Weinfeld[2], M. Fitch[1], S. Kanne[3] and M. O. Mazurek[3], (1)Child and Adolescent Services Research Center, Rady Children's Hospital, San Diego, San Diego, CA, (2)Autism Discovery Institute, Rady Children's Hospital, San Diego, San Diego, CA, (3)University of Missouri, Columbia, MO

182 110.182 Sensory Processing Patterns in Dyads of Children with ASD and Their Parents M. Glod[1], D. M. Riby[2], E. Honey[3] and J. Rodgers[1], (1)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom, (2)Department of Psychology, Durham University, Durham, United Kingdom, (3)School of Psychology, Newcastle University, Newcastle, United Kingdom

183 110.183 Sensory Processing Patterns, Activity Choice and Participation of Children with Autism Across Ireland R. Ferguson[1], F. McCaffrey[2], S. Cross[1], G. Kelly[3] and J. Casey[3], (1)Research & Development, Middletown Centre for Autism, Armagh, United Kingdom, (2)Research & Development, Middletown Centre for Autism, Armagh, Northern Ireland, (3)Life and Health Sciences, University of Ulster, Antrim, United Kingdom

184 110.184 Sensory Response Patterns As Predictors of Adaptive Outcomes in Children with ASD or Other Developmental Disabilities L. R. Watson[1], G. T. Baranek[2], J. Sideris[3], J. C. Bulluck[4], A. V. Kirby[2] and K. Williams[2], (1)Division of Speech and Hearing Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Division of Occupational Science and Occupational Therapy, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Frank Porter Graham Child Development Institute, Chapel Hill, NC, (4)Department of Allied Health Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC

185 110.185 Stability of Sensory Subtype One Year Following Diagnosis of Autism Spectrum Disorder A. E. Lane and K. Philpott-Robinson, University of Newcastle, Callaghan, Australia

186 110.186 Stress Regulation in Children with Autism Spectrum Disorders (ASD): A Scoping Review M. A. Braeken[1], L. Van Schuerbeeck[1], J. Steyaert[2] and M. Vanvuchelen[3], (1)Hasselt University, Diepenbeek, Belgium, (2)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (3)Hasselt University Faculty of Medicine and Life Sciences, Diepenbeek, Belgium

187 110.187 The Hardness of Standing Support Surfaces Influences Tip-Toe Behavior of Autistic Children: Evidence from a Pilot Study G. Valagussa, V. Balatti, L. Trentin, V. Terruzzi and E. Grossi, Autism Unit, Villa Santa Maria Institute, Tavernerio, Italy

188 110.188 The Relation Between Restrictive and Repetitive Behaviors and Family Routine Among Families of Children with Autism S. A. Fox1, C. Tam2, K. V. Christodulu3, M. L. Rinaldi4 and A. C. Israel2, (1)Clinical Psychology, University at Albany, State University of New York, Albany, NY, (2)University at Albany, State University of New York, Albany, NY, (3)Center for Autism and Related Disabilities, University at Albany, SUNY, Albany, NY, (4)University at Albany, SUNY, Albany, NY

189 110.189 Toe Walking and Autism: Cross-Sectional Study on Presentation Patterns and Correlation with Autism Severity G. Valagussa, V. Balatti, L. Trentin, S. Melli, M. Norsi and E. Grossi, Autism Unit, Villa Santa Maria Institute, Tavernerio, Italy

Keynote Address and INSAR Awards Ceremony
111 - Lifetime Achievement Awardee
4:00 PM - 5:30 PM - Grand Ballroom

4:00 **Awards Ceremony**

4:30 **Advocate Awardee Address**
Merry Barua, Action For Autism, New Delhi, India

5:00 **Lifetime Achievement Awardee Address**
Laura Schreibman, University of California, San Diego, La Jolla, CA

Oral Session – 1A
112 - New Insights into Social Intervention
1:45 PM - 2:35 PM - Grand Ballroom B

Session Chair: N. Bauminger-Zviely, *Bar-Ilan University, Ramat Gan, Israel*

1:45 112.001 A Randomized Wait-List Control Trial of a Peer-Mediated, Theatre-Based Intervention to Improve Social Ability in Children with Autism Spectrum Disorder B. A. Corbett[1], A. P. F. Key[1], S. M. Fecteau[2], C. R. Newsom[3], L. R. Qualls[4], P. J. Yoder[5], E. K. Edmiston[6], D. D. Jones[7] and B. D. Valencia[1], (1)Vanderbilt University, Nashville, TN, (2)Psychoeducation and psychology, Université du Québec en Outaouais, Gatineau, QC, Canada, (3)Pediatrics, Psychiatry, & Psychology, Vanderbilt University Medical Center, Nashville, TN, (4)Psychiatry, Vanderbilt University, Nashville, TN, (5)Special Education, Vanderbilt University, Nashville, TN, (6)Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, (7)Vanderbilt Kennedy Center Psychophysiology Services, Vanderbilt University, Nashville, TN

1:57 112.002 Students' Evaluation of an Autism Peer Education Program: Initial Impressions of the KIT for Kids K. A. Scheil[1], J. Campbell[2], J. Bowers-Campbell[3], M. C. Davis[4], E. Caldwell[4] and R. Jacob[4], (1)Psychology, University of Kentucky, Lexington, KY, (2)Department of Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (3)Georgetown College, Georgetown, KY, (4)University of Kentucky, Lexington, KY

2:09 112.003 Randomized Controlled Trial of the Classroom Scerts Intervention Project for Students with ASD L. Morgan[1], V. P. Reinhardt[1], N. Sparapani[2], C. Schatschneider[3] and A. M. Wetherby[1], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Arizona State University, Phoenix, AZ, (3)Florida State University, Tallahassee, FL

2:21 112.004 Social Validation of Evidence-Based Practices in Autism: Investigating the Evidence of Social Validity for Empirically-Demonstrated Treatments Identified By the National Autism Center and National Professional Development Center on ASD K. Callahan[1], H. L. Hughes[1], S. Mehta[2], S. M. Nichols[1], H. T. Wang[3] and M. Kutlu[4], (1)Kristin Farmer Autism Center, University of North Texas, Denton, TX, (2)Educational Psychology, University of North Texas, Denton, TX, (3)Special Education, National Taiwan Normal University, Taipei, Taiwan, (4)Special Education, Anadolu University, Eskisehir, Turkey

Oral Session – 1B
113 - Interventions for Adults with ASD
2:40 PM - 3:30 PM - Grand Ballroom B

Session Chair: N. Bauminger-Zviely, *Bar-Ilan University, Ramat Gan, Israel*

2:40 113.001 Designing and Evaluating a Summer Transition Program for Incoming College Students on the Autism Spectrum: A Participatory Action Approach C. Shane-Simpson[1,2], E. R. Hotez[3], J. T. Pickens[1], M. Giannola[4], A. Donachie[5], J. D'Onofrio[6], A. Alvizurez[7] and K. Gillespie-Lynch[8,9], (1)Psychology, The Graduate Center at the City University of New York, New York, NY, (2)Psychology, College of Staten Island, Staten Island, NY, (3)Psychology, The Graduate Center at the City University of New York/Hunter College, New York, NY, (4)Psychology, The College of Staten Island, New York, NY, (5)College of Staten Island, Staten Island, NY, (6)Center for Student Accessibility, College of Staten Island, New York, NY, (7)Psychology, College of Staten Island, New York, NY, (8)Department of Psychology, College of Staten Island - CUNY, Staten Island, NY, (9)Department of Psychology, The Graduate Center - CUNY, New York, NY

2:52 113.002 Nonsymbolic Augmentative Communication for Minimally Verbal Adults with ASD and Severe Intellectual Disability: An Intervention Study J. P. W. Maljaars[1] and I. Noens[2], (1)Parenting and Special Education Research Unit, KU Leuven, Leuven, Belgium, (2)Leuven Autism Research (LAuRes), Leuven, Belgium

3:04 113.003 Examining PEERS® for Young Adults: Improvements in Social Responsiveness and Depression and Relations to EEG Activity B. Dolan[1], K. A. Schohl[1], A. J. McVey[1], S. Stevens[1], K. Reiter[1], S. Potts[1], N. Gordon[1] and A. V. Van Hecke[2], (1)Marquette University, Milwaukee, WI, (2)Psychology, Marquette University, Milwaukee, WI

3:16 113.004 Increasing Strength and Flexibility of Adults Diagnosed with Autism Spectrum Disorder and an Intellectual Disability through a Strength and Conditioning Program K. Carr, N. R. Azar, S. Horton and C. A. Sutherland, Kinesiology, University of Windsor, Windsor, ON, Canada

Oral Session – 2A
114 - Prenatal Risk Factors and ASD
1:45 PM - 2:35 PM - Grand Ballroom A

Session Chair: M. D. Fallin, *Johns Hopkins Bloomberg School of Public Health, Baltimore, MD*

1:45 114.001 Maternal Mid-Gestational Serum Cytokines and Chemokines and the Risk of Autism with Intellectual Disability: The Early Markers of Autism (EMA) Study K. L. Jones[1], L. A. Croen[2], C. K. Yoshida[2], L. S. Heuer[1], P. Ashwood[3] and J. Van de Water[4], (1)University of California, Davis, CA, (2)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (3)UC Davis/MIND Institute, Sacramento, CA, (4)MIND Institute, University of California - Davis, Sacramento, CA

1:57 114.002 Organochlorine Chemical Concentrations in Maternal Mid-Pregnancy Serum Samples: Association with Autism Spectrum Disorders in the Early Markers of Autism Study
K. Lyall[1], L. A. Croen[2], O. Zerbo[2], C. K. Yoshida[2], M. Kharrazi[1] and G. C. Windham[1], (1)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (2)Division of Research, Kaiser Permanente Northern California, Oakland, CA

2:09 114.003 Maternal Sub-Clinical Hypothyroidism and Risk of Autistic Endophenotype in a Risk-Enriched Pregnancy Cohort I. Burstyn[1,2,3], N. L. Lee[3], E. Schriver[2], J. Pandey[4], L. A. Croen[5], M. D. Fallin[6], I. Hertz-Picciotto[7] and C. J. Newschaffer[2], (1) Environmental and Occupational Health, Drexel University, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (3)Epidemiology and Biostatistics, Drexel University, Philadelphia, PA, (4)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (6)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7)Public Health Sciences, University of California, Davis, Davis, CA

2:21 114.004 Maternal Blood DNA Methylation during Pregnancy and Autism Observational Scale for Infants (AOSI) Score at 12-Months in the Early Autism Risk Longitudinal Investigation (EARLI)
K. M. Bakulski[1], J. I. Feinberg[2], S. C. Brown[3], C. J. Newschaffer[4], L. A. Croen[5], I. Hertz-Picciotto[6], R. J. Landa[7], S. E. Levy[8], S. Ozonoff[9], J. Pandey[10], A. P. Feinberg[2] and M. D. Fallin[11], (1)Johns Hopkins University, Baltimore, MD, (2)Medicine, Johns Hopkins University, Baltimore, MD, (3)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Drexel University, Philadelphia, PA, (5)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (6)Public Health Sciences, University of California, Davis, Davis, CA, (7) Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (8)Developmental & Behavioral Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA, (9)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (10)The Children's Hospital of Philadelphia, Philadelphia, PA, (11)Johns Hopkins School of Medicine, Baltimore, MD

Oral Session – 2B
115 - Neuropeptide Hormones in ASD
2:40 PM - 3:30 PM - Grand Ballroom A

Session Chair: M. D. Fallin, *Johns Hopkins Bloomberg School of Public Health, Baltimore, MD*

2:40 115.001 Affect, Social Behavior and Communication Among Children Prenatally Exposed to Oxytocin Receptor Antagonists
E. Friedlander[1], D. Mankuta[2], M. Yaari[1], A. Harel[1], R. Ebstein[3] and N. Yirmiya[1], (1)Psychology Department, Hebrew University, Jerusalem, Israel, (2)Department of Obstetrics and Gynecology, Hadassah Ein Kerem University Hospital, Jerusalem, Israel, (3)Department of Psychology, National University of Singapore, Singapore, Singapore

2:52 115.002 Lessons Learned from Phase I Proof-of-Mechanism and Biomarker Studies in ASD: Measurement and Trial Considerations
J. T. McCracken[1], E. Hollander[2], L. Scahill[3], M. del Valle Rubido[4], F. Shic[5], O. Khwaja[6], L. Squassante[7], S. Sadikhov[8], L. Boak[9], F. Bolognani[10], P. Fontoura[11], C. A. Wall[12], R. J. Jou[13], R. L. Loomis[14], M. C. Lyons[12], A. Gavaletz[13], C. J. Ferretti[15], B. P. Taylor[16], G. Berlin[15], R. Noone[17], L. N. Antar[15] and D. Umbricht[18], (1)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)Dept. of Psychiatry and Behavioral Sciences, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (3)Pediatrics, Marcus Autism Center, Atlanta, GA, (4)Roche, Basel, Switzerland, (5)Child Study Center, Yale University School of Medicine, New Haven, CT, (6)F. Hoffmann - La Roche AG, Basel, Switzerland, (7)Product Development, Biometrics, F-Hoffmann-La Roche Ltd., Basel, Switzerland, (8)Roche Innovation Center, Roche Pharmaceutical Research and Early Development, Basel, Switzerland, (9)F. Hoffmann-La Roche AG, Basel, BS, Switzerland, (10)F. Hoffmann - La Roche AG, Basel, BL, Switzerland, (11)Roche Innovation Center Basel, Basel, Switzerland, (12)Yale University, New Haven, CT, (13)Child Study Center, Yale University, New Haven, CT, (14)Yale University Child Study Center, New Haven, CT, (15)Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (16)Dept. Of Psychiatry and Behavioral Sciences, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY, (17)Psychiatry, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (18)NORD, F. Hoffmann - La Roche AG, Basel, Switzerland

3:04 115.003 Effects of Intranasal Oxytocin on Systemizing and Empathizing Tasks in Children with and without Autism
L. Strathearn[1], S. Kim[2], U. Iyengar[3], S. Martinez[3] and P. Fonagy[4], (1)Pediatrics, Psychiatry and Neuroscience, Baylor College of Medicine, Houston, TX, (2)Menninger Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, TX, (3)Children's Nutrition Research Center, Baylor College of Medicine, Houston, TX, (4)University College London, London, United Kingdom

3:16 115.004 A New Vasopressin V1a Antagonist Restores Normal Social Behavior and Reveals a Specific Brain Network in the Rat Valproate Model of Autism C. Grundschober[1], T. Mueggler[2], F. Knoflach[3], C. Risterucci[3], P. Schnider[4] and B. Biemans[3], (1)Hoffmann-La Roche Ltd, 4070, Switzerland, (2)Roche Pharmaceuticals, Basel, Switzerland, (3)Neuroscience Discovery, F. Hoffmann-La Roche, pRED, Pharma Research & Early Development, Basel, Switzerland, (4)Medicinal Chemistry, F. Hoffmann-La Roche, pRED, Pharma Research & Early Development, Basel, Switzerland

Oral Session – 3A
116 - International Cross-Cultural Perspectives on Identification
1:45 PM - 2:35 PM - Grand Ballroom C

Session Chair: M. Elsabbagh, *McGill University, Montreal, PQ, Canada*

1:45 ▸ 116.001 What Will It Take to Improve Early Identification and Intervention Globally? M. Elsabbagh[1], P. J. de Vries[2] and The Global SIG Team[3], (1)McGill University, Montreal, PQ, Canada, (2)Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa, (3)McGill University, Montreal, QC, Canada

1:57 ▸ 116.002 Screening for Autism Spectrum Disorders in Low and Middle Income Countries: An Integrative Review L. Stewart[1] and L. C. Lee[2], (1)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

2:09 ▸ 116.003 Findings from the Minneapolis Somali Autism Prevalence Project K. Hamre[1], A. S. Hewitt[2], A. N. Esler[3] and J. Hall-Lande[1], (1)University of Minnesota, Minneapolis, MN, (2)Institute on Community Integration, University of Minnesota, Minneapolis, MN, (3)Pediatrics, University of Minnesota, Minneapolis, MN

2:21 ▸ 116.004 Factors Associated with the Utilization of Services for Children with Autism in Saudi Arabia F. Alnemary[1] and H. Al-Dahlaan[2], (1)University of California, Los Angeles, Los Angeles, CA, (2)King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

Oral Session – 3B
117 - Scaling Autism Interventions Across Cultures in Community Settings
2:40 PM - 3:30 PM - Grand Ballroom C

Session Chair: M. Elsabbagh, *McGill University, Montreal, PQ, Canada*

2:40 ▸ 117.001 A Cross-Cultural Comparison of a Caregiver-Mediated Joint Attention Intervention for Children with Autism Spectrum Disorders (ASDs): Malaysia and the UK A. Pushparatnam and C. Hughes, Centre for Family Research, University of Cambridge, Cambridge, United Kingdom

2:52 ▸ 117.002 Parent Mediated Intervention for Autism Spectrum Disorder in South Asia (PASS) a Randomized Control Trial J. Green[1], G. Divan[2], U. Hamdani[3], V. Vajaratkar[2], A. Minhas[4], C. Taylor[5], C. R. Aldred[6], K. Leadbitter[6], R. Emsley[7], A. Rahman[8], V. Patel[9] and P. Cardozo[2], (1)Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom, (2)Sangath, Porvorim Bardez Goa, India, (3)Human Development Research Foundation, Islamabad, Pakistan, (4)Institute of Psychiatry, Rawalpindi, Pakistan, (5)University of Manchester, manchester, United Kingdom, (6)University of Manchester, Manchester, United Kingdom, (7)Centre for Biostatistics, Institute of Population Health, University of Manchester, Manchester Academic Health Science Centre, Manchester, United Kingdom, (8)Liverpool University, Liverpool, United Kingdom, (9)London School Of Hygiene and Tropical Medicine, London, United Kingdom

3:04 ▸ 117.003 Autism in the African American Community of South Los Angeles: A Community Partnered Participatory Research Approach T. Carr[1], C. Franklin[2], A. Gulsrud[3], F. Jones[2], L. Jones[2], C. Kasari[4], E. Lizaola[1], J. Panganiban[5], J. Smith[1], K. White[2], B. L. Williams[6] and A. Wright[2], (1)University of California Los Angeles, Los Angeles, CA, (2)Healthy African American Families, Phase II, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)UCLA Center for Autism Research & Treatment, Westwood, CA, (5)University of California, Los Angeles, Arcadia, CA, (6)University of California Los Angeles, Culver City, CA

3:16 ▸ 117.004 Potential Ethnic Disparities in Special Education Classroom Quality in a Large Urban County A. C. Stahmer[1], J. Suhrheinrich[2] and S. R. Rieth[3], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)University of California, San Diego, La Jolla, CA, (3)Child and Family Development, San Diego State University, San Diego, CA

Oral Session – 4A
118 - Neural Signatures of Social Perception and Reward Motivation in ASD
1:45 PM - 2:35 PM - Grand Ballroom D

Session Chair: R. T. Schultz, *Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA*

1:45 118.001 Parsing Heterogeneity: Additive Effects of Oxytocin Receptor Gene Polymorphisms on Reward Circuitry in ASD L. M. Hernandez[1,2,3], S. A. Green[1,2], K. Krasileva[2,4], L. Sherman[2,5], R. McCarron[1,2], C. Ponting[1,2], D. H. Geschwind[1,4], S. Y. Bookheimer[1,6] and M. Dapretto[1,2], (1)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (2)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA, (3)Interdepartmental Neuroscience Program, UCLA, Los Angeles, CA, (4)Department of Neurology, David Geffen School of Medicine, UCLA, Los Angeles, CA, (5)Department of Psychology, UCLA, Los Angeles, CA, (6)Center for Cognitive Neuroscience, UCLA, Los Angeles, CA

1:57 118.002 Neural Reward Imbalance Between Social Incentives and Circumscribed Interests in Autism Spectrum Disorder G. Kohls[1], M. Mosner[2], L. Antezana[2], R. T. Schultz[2] and B. E. Yerys[3], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, RWTH Aachen University, Aachen, Germany, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Psychiatry, University of Pennsylvania, Philadelphia, PA

2:09 118.003 Joint Attention and Brain Functional Connectivity in Infants and Toddlers A. T. Eggebrecht[1], J. Elison[2], E. Feczko[3], J. D. Lewis[4], S. Kandala[5], A. Todorov[6], J. J. Wolff[2], A. Z. Snyder[7], L. McEvoy[8], A. M. Estes[9], L. Zwaigenbaum[10], K. N. Botteron[11], R. C. McKinstry[12], J. N. Constantino[12], A. Evans[13], H. C. Hazlett[14], S. Dager[15], S. J. Paterson[16], R. T. Schultz[17], M. A. Styner[18], G. Gerig[19], S. Das[4], P. Kostopoulos[20], .. The IBIS Network[21], B. L. Schlaggar[12], S. E. Petersen[12], J. Piven[18,22] and J. R. Pruett[12,22], (1)Radiology, Washington University School of Medicine, St Louis, MO, (2)University of Minnesota, Minneapolis, MN, (3)Emory University, Atlanta, GA, (4)McGill University, Montreal, QC, Canada, (5)Psychiatry, Washington University School of Medicine, Saint Louis, MO, (6)Psychiatry, Washington University School of Medicine, St. Louis, MO, (7)Radiology, Washington University School of Medicine, Saint Louis, MO, (8)Washington University School of Medicine, St. Louis, MO, (9)Speech and Hearing Sciences, University of Washington, Seattle, WA, (10)University of Alberta, Edmonton, AB, Canada, (11)Washington University School of Medicine in St. Louis, St. Louis, MO, (12)Washington University School of Medicine, Saint Louis, MO, (13)McConnell Brain Imaging Centre, McGill University, Montreal, QC, Canada, (14)Carolina Institute for Developmental Disabilities and Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (15)University of Washington, Seattle, WA, (16)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (17)Departments of Pediatrics and Psychiatry, University of Pennsylvania, Philadelphia, PA, (18)University of North Carolina at Chapel Hill, Chapel Hill, NC, (19)School of Computing & Scientific Computing and Imaging Institute SCI, University of Utah, Salt Lake City, UT, (20)McConnell Brain Imaging Centre, Montreal Neurological Institute, Montreal, QC, Canada, (21)Autism Center of Excellence, Chapel Hill, NC, (22)*Shared Senior Author, NC

2:21 118.004 Emotion Processing in Adolescents with ASD: Using Multiple Measures and Varying Intensities R. Luyster[1], C. A. Nelson[2] and E. Auguste[3], (1)Emerson College, Boston, MA, (2)Division of Developmental Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA, (3)Mt. Holyoke College, South Hadley, MA

Oral Session – 4B
119 - Relationships between Behavior and Sensorimotor Circuitry in ASD
2:40 PM - 3:30 PM - Grand Ballroom D

Session Chair: R. T. Schultz, *Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA*

2:40 119.001 Cortico-Cerebellar Dysfunctions Associated with Visuomotor Abnormalities in Autism Spectrum Disorder Vary According to the Quality of Visual Feedback M. W. Mosconi[1], S. P. Coombes[2], L. M. Schmitt[3], G. Magnon[4], D. E. Vaillancourt[2] and J. A. Sweeney[1], (1)Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX, (2)University of Florida, Gainesville, FL, (3)Center for Autism and Development Disabilities, UT Southwestern Medical Center, Dallas, TX, (4)University of Texas Southwestern Medical Center, Dallas, TX

2:52 119.002 Atypical Lateralization of Motor Circuit Connectivity in Children with High-Functioning Autism Is Associated with Motor Deficits D. L. Floris[1,2], A. D. Barber[2,3], M. B. Nebel[2,3] and S. H. Mostofsky[2,3,4], (1)Autism Research Centre, Cambridge, United Kingdom, (2)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (3)Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, (4)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD

3:04 119.003 Post-Movement Beta Rebound Is Decreased in Children with ASD W. C. Gaetz[1], L. Blaskey[2], E. S. Kuschner[2], L. Bloy[2], R. Murray[3], C. Fisk[4], M. Ku[4], D. Chudnovskaya[4], J. W. Dell[5], R. Golembski[4], P. Lam[4], S. E. Levy[6] and T. P. Roberts[2], (1)The Children's Hospital of Philadelphia, Bala Cynwyd, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)Radiology, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)The Children's Hospital of Philadelphia, Philadelphia, PA, (5)CHOP MEG Lab, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Developmental & Behavioral Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA

3:16 119.004 Praxis-Related Alterations of Cortical Oscillations in Children with Autism: Associations with Symptom Severity, Repetitive Behaviors and Motor Planning J. B. Ewen[1], B. M. Lakshmanan[2], A. S. Pillai[3], M. Hallett[4], N. E. Crone[5] and S. H. Mostofsky[6], (1)Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Neurology and Developmental Medicine, Kennedy Krieger Institute, Baltimore, MD, (4)Human Motor Control Section, NIH/NINDS, Bethesda, MD, (5)Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, (6)Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD

Oral Session – 5A
120 - Experiencing Autism: First-Hand and Sibling Perspectives
1:45 PM - 2:35 PM - Grand Salon

Session Chair: A. T. Singer, *Autism Science Foundation, New York, NY*

1:45 120.001 How Should We Describe Autism? Perspectives from the UK Autism Community L. Kenny[1], C. Hattersley[2,3], B. Molins[3], C. Buckley[4], C. Povey[3] and E. Pellicano[1], (1)Centre for Research in Autism and Education (CRAE), Institute of Education, London, United Kingdom, (2)Providence Row, London, United Kingdom, (3)The National Autistic Society, London, England, United Kingdom, (4)Royal College of General Practitioners, London, United Kingdom

1:57 120.002 "What 'Being on the Spectrum' Means to Me": How Adolescents with Autism Spectrum Disorder Understand and Explain Their Diagnoses L. Berkovits[1], B. L. Baker[1] and J. Blacher[2], (1)UCLA, Los Angeles, CA, (2)University of California - Riverside, Los Angeles, CA

2:09 120.003 Encouraging Participant-Centered Autism Research: What We Know from Potential Participants A. R. Marvin[1], C. A. Cohen[2], J. K. Law[3] and P. H. Lipkin[4], (1)3825 Greenspring Avenue/Painter Building 1st Floor, Kennedy Krieger Institute, Baltimore, MD, (2)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (3)Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, (4)Pediatrics/ Neurology and Developmental Medicine, Kennedy Krieger Institute/ Johns Hopkins School of Medicine, Baltimore, MD

2:21 120.004 The Sibling Experience: Quality of Life and Adjustment in Siblings of Individuals with Autism Spectrum Disorder in Adolescence L. L. Green and S. Gavidia-Payne, Health Sciences, RMIT University, Bundoora, Australia

Oral Session – 5B
121 - Social Motivation, Social Reward, and ASD Traits in Clinical and Typical Samples
2:40 PM - 3:30 PM - Grand Salon

Session Chair: J. Blacher, *University of California - Riverside, Los Angeles, CA*

2:40 121.001 Perceived Social Support in Cognitively High Functioning Adults with Autism Spectrum Disorder S. Alvarez-Fernandez[1], H. R. Brown[1], J. A. Raithel[1], S. L. Bishop[2], S. B. Kern[1], C. Lord[3] and A. Di Martino[1], (1)Child Psychiatry, NYU Child Study Center, New York, NY, (2)Psychiatry, University of California, San Francisco, San Francisco, CA, (3)Weill Cornell Medical College, White Plains, NY

2:52 121.002 Measuring the Value of Social Stimuli in Autism Spectrum Disorders I. Dubey[1], D. Ropar[1] and A. Hamilton[2], (1)School of Psychology, University of Nottingham, Nottingham, United Kingdom, (2)Institute of Cognitive Neuroscience, UCL, London, United Kingdom

3:04 121.003 Bridging the Gap Between Social Motivation and Empathy: Autistic Traits Modulate Spontaneous Facial Mimicry of Social Rewards in Individuals with ASD J. Neufeld[1,2], T. B. Sims[1] and B. Chakrabarti[1], (1)Centre for Integrative Neuroscience and Neurodynamics, School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (2)Center for Neurodevelopmental Disorders, Karolinska Institute, Stockholm, Sweden

3:16 121.004 Relative Contributions of BAP Subdomains to Social Relationships and Loneliness J. C. Bush and D. Kennedy, Psychological and Brain Sciences, Indiana University, Bloomington, IN

Poster Session
122 - Family Issues and Stakeholder Experiences
5:30 PM - 7:00 PM - Imperial Ballroom

1 122.001 Face Processing and the Broad Autism Phenotype B. H. Feldman[1] and A. Dimitropoulos[2], (1)Case Western Reserve University Dept. of Psychological Sciences, University Heights, OH, (2)Department of Psychological Sciences, Case Western Reserve University, Cleveland, OH

2 122.002 A First-Hand Account of Raising a Child with ASD A. Mao, Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, TX

3 122.003 Evidence-Based Treatment and Assessment of Autism Spectrum Disorder A. S. Weitlauf, Vanderbilt Kennedy Center, Nashville, TN

4 122.004 Parents with Autism of Children with Autism S. Begeer[1], M. Wierda[2] and H. M. Koot[2], (1)Department of Psychology, Vrije Universiteit Amsterdam, Amsterdam, Netherlands, (2)Developmental Psychology, VU University Amsterdam, Amsterdam, Netherlands

5 122.005 A Compass for Hope: A Parent Training and Support Program for Children with ASD and Problem Behavior A. D. Rodgers[1], A. P. Ables[2], J. A. Odom[1], T. M. Belkin[3], G. Mathai Kuravackel[2], R. J. Reese[1] and L. A. Ruble[1], (1)University of Kentucky, Lexington, KY, (2)University of Louisville, Louisville, KY, (3)Indiana University- Purdue University Indianapolis, Indianapolis, IN

6 122.006 ASD Symptoms As Predictors of Negative Outcomes in Parents and Typically-Developing Siblings T. S. Tomeny[1], L. K. Baker[1] and T. D. Barry[2], (1)Department of Psychology, The University of Alabama, Tuscaloosa, Tuscaloosa, AL, (2)Psychology, The University of Southern Mississippi, Hattiesburg, MS

7 122.007 Applying Principles of Community-Based Participatory Research in Autism Biomarker Discovery A. Yusuf[1] and M. Elsabbagh[2], (1)Department of Pscyhiatry, McGill University, Montreal, QC, Canada, (2)Department of Psychiatry, McGill University, Montreal, QC, Canada

8 122.008 Assessment of Transportation and Mobility Adults on the Autism Spectrum in NJ C. Feeley[1], D. Deka[2], A. Lubin[2] and M. McGackin[3], (1)Center for Advanced Infrastructure and Transportation, Rutgers University, Piscataway, NJ, (2)Alan M. Voorhees Transportation Center, Rutgers, The State University of New Jersey, New Brunswick, NJ, (3)Autism Family Services of New Jersey, Family Support Center of New Jersey, Brick, NJ

9 ▸ 122.009 Autism Spectrum Disorders- Understanding Parental Pursuit to Access Speech-Language Services in the Indian Context S. S. Meera[1], R. G. Shankar[1], B. S. Mathew[2], A. J. S. Mohammed[3] and N. Shivashankar[4], (1)NIMHANS, Bangalore, India, (2)Fr. Muller College of Speech and Hearing, Mangalore, India, (3)Dr. S. R. Chandrasekhar Institute of Speech and Hearing, Bangalore, India, (4)Dept. of Speech Pathology and Audiology, NIMHANS, Bangalore, India

10 122.010 Challenges Facing Families with a Child with ASD C. A. Cohen[1], A. R. Marvin[2], J. K. Law[3] and P. H. Lipkin[4], (1)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (2)3825 Greenspring Avenue/Painter Building 1st Floor, Kennedy Krieger Institute, Baltimore, MD, (3)Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, (4)Pediatrics/Neurology and Developmental Medicine, Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD

11 122.011 Compassion Meditation in Parents of Children with ASD and Potential Effects on Stress, Parenting Skills and Children's Outcomes S. Fernandez-Carriba[1], E. Robbins[2], B. Ozawa-de Silva[3], B. Dodson-Lavelle[4], T. Pace[5], C. L. Raison[6], P. Rochat[2], L. T. Negi[7] and E. Jarzabek[8], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Psychology, Emory University, Atlanta, GA, (3)Life University, Marietta, GA, (4)Mind and Life Institute, Hadley, MA, (5)College of Nursing, University of Arizona, Tucson, AZ, (6)Psychiatry, University of Arizona, Tucson, AZ, (7)Emory-Tibet Partnership, Emory University, Atlanta, GA, (8)Pediatric Neurodevelopmental Clinic, Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

12 122.012 Concerns of Parents and Teachers of Children with Autism in Elementary School G. Azad[1], M. Kim[2] and D. S. Mandell[3], (1)University of Pennsylvania School of Medicine, Hamilton, NJ, (2)Temple University, Philadelphia, PA, (3)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA

13 122.013 Daily Hassles and Relationship Satisfaction in Parents of Pre-School and School-Aged Children with Autism Spectrum Disorder: The Moderating Role of Spousal/Partner Support H. L. Schneider[1], C. S. Ghilain[1], M. V. Parlade[1], N. Ekas[2] and M. Alessandri[1], (1)Psychology, University of Miami, Coral Gables, FL, (2)Texas Christian University, Fort Worth, TX

14 ▸ 122.014 Development of a Parent Mentor Training Program in Japan T. Takezawa[1], H. Haraguchi[2], T. Yoshikawa[3], M. Ogura[4], J. Adachi[5] and M. Inoue[6], (1)Education and Social Service, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Japan, (2)Child and Adolescent Mental Health, National Center of Neurology and Psychiatry, Kodaira, Japan, (3)Child and Adolescent Psychiatry, Central Hospital, Aichi Human Service Center, Kasugai, Japan, (4)School of Basic Research and Improvement of Practice for Education, Naruto University of Education, Naruto, Japan, (5)Special Education, Hokkaido University of Education, Asahikawa, Japan, (6)Faculty of Medicine, Tottori University, Yonago, Japan

15 122.015 Early Access to Care in the Province of Quebec: A Policy Analysis Framework K. Shikako-Thomas[1], T. Savion-Lemieux[2], L. Stern[3], M. Steiman[3], R. Simon[4], L. Girouard[5], A. Yusuf[6] and M. Elsabbagh[7], (1)School of Environmental Design, University of Montreal, Brossard, QC, Canada, (2)Psychiatry, McGill University, Montreal, QC, Canada, (3)Montreal Children's Hospital, Montreal, QC, Canada, (4)Psychology, Montreal Children's Hospital - McGill University Health Centre, Montreal, QC, Canada, (5)2155 Guy Street, 5th Floor, McGill University Health Centre - Research Institute, Montreal, QC, Canada, (6)Department of Pscyhiatry, McGill University, Montreal, QC, Canada, (7)McGill University, Montreal, PQ, Canada

16 122.016 Early Intervention Services and Effects on Parent Stress N. Broderick[1], A. Stainbrook[2], C. G. Herrington[3], A. P. Juárez[4] and Z. Warren[1], (1)Vanderbilt University, Nashville, TN, (2)Department of Pediatrics, Vanderbilt Kennedy Center, Nashville, TN, (3)Vanderbilt Kennedy Center, Vanderbilt University, Nashville, TN, (4)Pediatrics & Psychiatry, Vanderbilt Kennedy Center, Nashville, TN

17 122.017 Effects of Sensory Sensitivity and Intolerance of Uncertainty on Anxiety in Mothers of Children with Autism Spectrum Disorder M. Uljaravic[1], S. Carrington[2], S. Leekam[1] and M. Prior[3], (1)Wales Autism Research Centre, Cardiff University, Cardiff, United Kingdom, (2)Wales Autism Research Centre, Cardiff, Wales, United Kingdom, (3)Department of Psychology, University of Melbourne, Carlton North, Australia

18 122.018 Emotion Regulation and Depression in Parents of Children with Autism Spectrum Disorder A. Costa and G. Steffgen, University of Luxembourg, Walferdange, Luxembourg

19 122.019 Evaluation of a Support Group for Fathers of Children with Autism Spectrum Disorder M. Elfert[1,2] and P. Mirenda[3], (1)Reach Child and Youth Development Society, Delta, BC, Canada, (2)Douglas College, Coquitlam, BC, Canada, (3)University of British Columbia, Vancouver, BC, Canada

20 122.020 Examining Changes in Parental Distress, Self-Efficacy, and Children's Problem Behaviors from Admission to 2-Month Follow-up within the Autism Inpatient Collection (AIC) Sample K. A. Smith[1], T. Flis[2], R. Chappell[3], B. L. Handen[4] and M. Siegel[5], (1)Maine Medical Center Research Institute, Portland, ME, (2)Child and Adolescent Neuropsychiatry Unit, Sheppard Pratt, Baltimore, MD, (3)Sheppard Pratt, Baltimore, MD, (4)Psychiatry, University of Pittsburgh Medical Center, Pittsburgh, PA, (5)Maine Medical Center Research Institute, Westbrook, ME

21 122.021 Factors Influencing Relocation for Military Families with Children with ASD J. Davis and E. H. Finke, Communication Sciences and Disorders, Pennsylvania State University, University Park, PA

22 122.022 Fathers' and Non-Fathers' Physiological Responses to Distress Vocalizations of Infants with Autism Spectrum Disorders G. Esposito[1,2], S. Valenzi[3], T. Islam[3] and M. H. Bornstein[4], (1)Department of Psychology and Cognitive Science, University of Trento, Rovereto, Italy, (2)Nanyang Technological University, Singapore, Singapore, (3)RIKEN Brain Science Institute, Wako-Shi, Japan, (4)Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD

23 ▸ 122.023 First Concerns Among Latino Parents of Children with Autism Spectrum Disorder S. Magana[1], M. Rivera[2] and E. S. Robb[1], (1)Disability and Human Development, University of Illinois at Chicago, Chicago, IL, (2)Communication Sciences and Disorders, University of Wisconsin-Madison, Madison, WI

24 122.024 Implementation of Early Service Interventions and Its Effects on Parent Resilience K. Herrington[1], A. Stainbrook[2], N. Broderick[3], A. P. Juárez[4] and Z. Warren[5], (1)Vanderbilt University, Nashville, TN, (2)Department of Pediatrics, Vanderbilt Kennedy Center, Nashville, TN, (3)Kennedy Center, Vanderbilt University, Nashville, TN, (4)Pediatrics & Psychiatry, Vanderbilt Kennedy Center, Nashville, TN, (5)Pediatrics, Vanderbilt University, Nashville, TN

25 122.025 Influence of Pre and Post Doctoral Fellowships on Autism Research Career Trajectory A. K. Halladay and A. T. Singer, Autism Science Foundation, New York, NY

26 122.026 Intensity of Parenting Stress, Child Negative Emotionality, and the Interaction of Parent's Self-Regulation Skills B. J. Wilson[1], T. Ward[1], E. F. Geib[1], T. Estrada[2], R. Kramer[1], S. Nanda[2], E. Lovell[2] and J. Kim[2], (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Seattle Pacific University, Seattle, WA

27 122.027 Keeping up with the Times: Measuring the Stress of Parents of Children with ASD over Email B. L. Ncube[1], J. M. Bebko[1], M. Thompson[2], M. Spoelstra[2] and L. Verbeek[2], (1)Psychology, York University, Toronto, ON, Canada, (2)Autism Ontario, Toronto, ON, Canada

28 ▸ 122.028 Many Voices at the Table: Collaboration Between Families and Teachers of Somali Students with Autism D. B. Baker, Education, Hobart and William Smith Colleges, Ithaca, NY

29 122.029 Maternal Depressive Symptoms and Child Sleep Quality in Young Children with ASD M. M. Abdullah[1], J. Youssef[2], W. A. Goldberg[3], Y. Guo[4], C. Taylor Lucas[1] and K. Lakes[1], (1)Department of Pediatrics, University of California, Irvine, Irvine, CA, (2)Center for Autism and Neurodevelopmental Disorders, University of California, Irvine, Santa Ana, CA, (3)Psychology and Social Behavior, University of California, Irvine, Irvine, CA, (4)Department of Nursing Science, University of California, Irvine, Irvine, CA

30 122.030 Maternal and Paternal Stress in Parenting Children with ASD H. E. Friedman[1], D. Oosting[1], C. M. Keifer[1], A. J. Schneider[2], C. A. Paisley[2], J. Wolf[1] and P. Ventola[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Center for Translational Developmental Neuroscience, Yale University, New Haven, CT

31 122.031 Mealtime Structure in Families with Children with ASD K. K. Ausderau[1] and E. Laird[2], (1)University of Wisconsin - Madison, Madison, WI, (2)Common Threads, McFarland, WI

32 122.032 Mental Stress in Parents of Autistic Children: A Pilot Study of the Related Psychological Dimensions S. Melli[1], C. Zarbo[2], A. Compare[2] and E. Grossi[1], (1)Autism Research Unit, Villa Santa Maria Institute, Tavernerio, Italy, (2)Human and Social Science Department, Bergamo University, Bergamo, Italy

33 122.033 Modeling Depressive Symptom Trajectories Among Mothers of Children with ASD from Diagnosis to Age 9 A. Zaidman-Zait[1], E. K. Duku[2], P. Mirenda[3], T. A. Bennett[2], P. Szatmari[4], S. E. Bryson[5], E. J. Fombonne[6], I. M. Smith[5], T. Vaillancourt[7], C. Waddell[8], L. Zwaigenbaum[9], S. Georgiades[10], M. Elsabbagh[11] and A. Thompson[2], (1)Tel-Aviv University, Tel-Aviv, Israel, (2)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (3)University of British Columbia, Vancouver, BC, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (6)Oregon Health & Science University, Portland, OR, (7)University of Ottawa, Ottawa, ON, Canada, (8)Faculty of Health Sciences, Simon Fraser University, Vancouver, BC, Canada, (9)University of Alberta, Edmonton, AB, Canada, (10)McMaster University, Hamilton, ON, Canada, (11)Department of Psychiatry, McGill University, Montreal, QC, Canada

34 122.034 Parent Feeding Practices of Picky-Eating Children with and without Autism Spectrum Disorder E. P. Trinh[1], F. J. Biasini[2] and A. R. Lemelman[1], (1)University of Alabama at Birmingham, Birmingham, AL, (2)Psychology, University of Alabama at Birmingham, Birmingham, AL

35 122.035 Parental Disclosure of a Child's Diagnosis of Autism Spectrum Disorder in the Emergency Department B. Muskat[1], A. Greenblatt[2], D. B. Nicholas[3], C. Kilmer[4], P. Burnham Riosa[1], S. Ratnapalan[5], J. Cohen-Silver[6] and L. Zwaigenbaum[7], (1)The Hospital for Sick Children, Toronto, ON, Canada, (2)Social Work, The Hospital for Sick Children, Toronto, ON, Canada, (3)University of Calgary, Edmonton, AB, Canada, (4)Social work, University of Calgary, Edmonton, AB, Canada, (5)Paediatrics and Dalla Lana School of Public Health, The Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, (6)Pediatrics, The Hospital for Sick Children, Toronto, ON, Canada, (7)University of Alberta, Edmonton, AB, Canada

36 122.036 Parental and Child Characteristics That Contribute to Parental Concerns in Toddlers at High Risk for Autism Spectrum Disorder over Time E. A. Karp, L. V. Ibanez, S. R. Edmunds, C. Harker and W. L. Stone, Psychology, University of Washington, Seattle, WA

37 122.037 Parenting Teenagers with an Autism Spectrum Disorder before and after the Transition to Secondary School L. van Esch[1], K. Hannes[2], K. Van Leeuwen[1] and I. Noens[1,3,4], (1)Parenting and Special Education Research Unit, KU Leuven, Leuven, Belgium, (2)Methodology of Educational Sciences, KU Leuven, Leuven, Belgium, (3)Leuven Autism Research (LAuRes), Leuven, Belgium, (4)Psychiatric and Neurodevelopmental Genetics Unit, Massachusetts General Hospital, Boston, USA, Boston, MA

38 122.038 Peer Responses to Mild Social Digressions By College Students Labelled with Autism Spectrum Disorder or Asperger Syndrome M. Brosnan and E. Mills, University of Bath, Bath, United Kingdom

39 122.039 Psychosocial Adjustment and Sibling Relationships in Siblings of Children with Autism Spectrum Disorder: Risk and Protective Factors K. M. Walton[1] and B. Ingersoll[2], (1)Psychology, Nisonger Center, The Ohio State University, Columbus, OH, (2)Psychology, Michigan State University, East Lansing, MI

40 122.040 Questioning, Directing, and Commenting: Parent-Child Talk in Autism C. Kang[1] and C. Kasari[2], (1)Graduate School of Education and Information Studies, University of California, Los Angeles, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA

41 122.041 Raising a Child with Autism: A Developmental Perspective on Parental Adaptation C. Dissanayake[1], R. McStay[1] and D. Trembath[2], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)School of Allied Heath Sciences, Griffith University, Gold Coast, Australia

42 122.042 Rural Parents' Knowledge of Autism and Child Development A. B. Barber[1], L. G. Renfroe[1], L. K. Baker[2], D. Ray[3], T. S. Tomeny[2], S. E. Strickland[3] and A. Evans[4], (1)Communicative Disorders, University of Alabama, Tuscaloosa, AL, (2)Department of Psychology, The University of Alabama, Tuscaloosa, Tuscaloosa, AL, (3)University of Alabama, Tuscaloosa, AL, (4)Pediatrics, University of Alabama, Tuscaloosa, AL

43 ▸ 122.043 Severity of Child Autistic and Comorbid Symptoms, Parent Mental Health and Parenting Behaviors M. Tsujii[1] and H. Ito[2], (1)Chukyo University, Toyota, Aichi, Japan, (2)Hamamatsu University School of Medicine, Nagakute, Aichi, Japan

44 122.044 Silver Linings: Optimism and Positivity As Buffers of Stress and Lower Well-Being in Mothers of Adolescents with ASD J. Blacher[1] and B. L. Baker[2], (1)University of California - Riverside, Los Angeles, CA, (2)UCLA, Los Angeles, CA

45 122.045 Social Support As a Protective Factor for Typically-Developing Siblings in the Presence of Parental Stress: A Moderated Mediation Model T. S. Tomeny[1], T. D. Barry[2] and L. K. Baker[1], (1)Department of Psychology, The University of Alabama, Tuscaloosa, Tuscaloosa, AL, (2)Psychology, The University of Southern Mississippi, Hattiesburg, MS

46 122.046 Stability and Change of Insightfulness Among Mothers of Children with Autism Spectrum Disorder E. R. Hotez[1,2], M. R. Swanson[3], A. Delavenne[4], T. Hutman[5], M. Sigman[6] and M. Siller[7], (1)Psychology, The Graduate Center at the City University of New York, New York, NY, (2)Psychology, Hunter College, New York, NY, (3)University of North Carolina - Chapel Hill, Carrboro, NC, (4)Hunter College, New York, NY, (5)The Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (6)University of California Los Angeles, Los Angeles, CA, (7)Psychology, Hunter College of the City University of New York, New York, NY

47 122.047 Stakeholder Perspectives on the Inclusion of Secondary Students with Autism Spectrum Disorder: Challenges and Support Needs S. Hedges, UNC Chapel Hill, Chapel Hill, NC

48 122.048 The Cost of Autism Spectrum Disorders T. Falkmer, Curtin University, Perth, WA, Australia

49 122.049 The Impact of Children with and without Developmental Disabilities on Relationship Satisfaction and the Parenting Alliance C. E. Walsh, JFK Partners, University of Colorado, Denver, CO

50 122.050 The Relation Between Parent Stress and Children's Communication Skills Following a Theatre-Based Intervention for Children with Autism Spectrum Disorder C. M. Herrington[1], C. R. Newsom[2] and B. A. Corbett[3], (1)Department of Pediatrics, Vanderbilt University Medical Center, Nashville, TN, (2)Peabody Box 74, Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN

51 122.051 Understanding Student-Teacher Relationships Among Children with Autism: The Role of Parental Involvement and Child Behavior S. R. Cohen[1], S. Zeedyk[2], J. Blacher[3] and A. Eisenhower[4], (1)University of California, San Diego, La Jolla, CA, (2)University of California, Riverside, Riverside, CA, (3)University of California - Riverside, Los Angeles, CA, (4)Psychology, University of Massachusetts, Boston, Boston, MA

52 122.052 Understanding and Reducing Endorsement of Stereotypes of Autism: An Intervention Using Counterstereotypic Exemplars M. Freeth and C. Wood, Psychology Department, University of Sheffield, Sheffield, United Kingdom

53 122.053 Understanding and Sharing an Autism Spectrum Disorder Diagnosis: Perspectives of Diverse Families Participating in a Family Navigation Program S. Rajabiun[1], G. I. Orsmond[1], X. Grossman[2], S. Blenner[2], I. Fernandez-Pastrana[2] and M. Augustyn[2], (1)Boston University, Boston, MA, (2)Boston Medical Center, Boston, MA

54 122.054 Well-Being of Mothers of Preschoolers with Autism Is Mediated By Their Children's Treatment-Related Improvements in Every-Day Communication Y. Ozturk[1], C. Dissanayake[2] and G. Vivanti[3], (1)Department of Psychology and Cognitive Science, University of Trento, Rovereto, Italy, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, Northcote, Australia

55 122.055 What Constitutes Autism Knowledge? Insights from Adults on the Autism Spectrum K. Gillespie-Lynch[1], S. Kapp[2], J. T. Pickens[3], P. J. Brooks[4], B. Schwartzman[5] and K. Guardado[6], (1)College of Staten Island, Brooklyn, NY, (2)Department of Psychology, University of California, Los Angeles, Los Angeles, CA, (3)Psychology, The Graduate Center at the City University of New York, New York, NY, (4)Department of Psychology, The Graduate Center - CUNY, New York, NY, (5)Education, UCLA, Los Angeles, CA, (6)UCLA, Los Angeles, CA

Poster Session
123 - Interventions - Non-Pharmacologic - Preschool
5:30 PM - 7:00 PM - Imperial Ballroom

56 123.056 A Telehealth Approach to Parent Coaching in ASD L. Vismara, Department of Psychology, York University, Toronto, ON, Canada

57 123.057 Bayesian Meta-Analysis of Multiple Interventions and Outcomes for the Treatment of Autism Spectrum Disorder C. Fonnesbeck[1], A. S. Weitlauf[2], N. A. Sathe[3], M. McPheeters[4] and Z. Warren[5], (1)Biostatistics, Vanderbilt University, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)Vanderbilt Evidence-based Practice Center, Institute for Medicine and Public Health, Vanderbilt University, Nashville, TN, (4)Vanderbilt Universtiy, Nashville, TN, (5)Vanderbilt University, Nashville, TN

58 123.058 Brief Background of Parent Training in ASD L. Scahill, Pediatrics, Marcus Institute, Emory University, Atlanta, GA; Marcus Autism Center, Atlanta, WITHDRAWN

59 ▸ 123.059 Children with Autism Spectrum Disorder Accessing Early Intervention in the Autism and Developmental Disabilities Monitoring (ADDM) Network A. Messina[1], A. V. Bakian[1], W. Zahorodny[2], M. Kurzius-Spencer[3], S. A. Rosenberg[4], C. E. Rice[5], M. S. Durkin[6], S. Pettygrove[7], L. M. MacLeod[8], J. Shenouda[2], M. Rajan[9] and D. A. Bilder[1], (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)Pediatrics, Rutgers New Jersey Medical School, Newark, NJ, (3)Dept of Pediatrics, University of Arizona, College of Medicine, Tucson, AZ, (4)Department of Psychiatry, University of Colorado School of Medicine, Aurroa, CO, (5)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (6)Population Health Sciences, University of Wisconsin-Madison, Madison, WI, (7)Epidemiology and Biostatistics, University of Arizona, Tucson, AZ, (8)Utah Department of Health, Salt Lake City, UT, (9)Department of Preventive Medicine and Community Health, Rutgers New Jersey Medical School, Newark, NJ

60 123.060 Comparing Two Parent-Implemented Interventions on Direct Observation of Joint Attention and Language of Preschool Children with Autism: A Pilot Study M. E. Kerwin[1], M. E. Soreth[1] and C. Gangemi[2], (1)Psychology, Rowan University, Glassboro, NJ, (2)Family First, LLC, Haddonfield, NJ

61 123.061 Comparison of a Self-Directed and Therapist-Assisted Telehealth Parent Training Intervention for Children with ASD B. Ingersoll, Psychology, Michigan State University, East Lansing, MI

62 123.062 Conducting Assessment and Treatment of Problem Behavior for Children with Autism Via Telehealth K. Pelzel[1], K. Schieltz[2], D. Wacker[3], A. Suess[4], S. Lindgren[5] and T. Kopelman[6], (1)Center for Disabilities and Development, University of Iowa Hospitals and Clinics, Iowa City, IA, (2)University of Missouri - Columbia, Columbia, MO, (3)Pediatrics, University of Iowa Hopsitals and Clinics, Iowa City, IA, (4)University of Iowa, Iowa City, IA, (5)Pediatrics, University of Iowa Children's Hospital, Iowa City, IA, (6)Psychiatry, University of Iowa Hospitals and Clinics, Iowa City, IA

63 123.063 Cost-Effectiveness Analysis Comparing Pre-Diagnosis Autism Spectrum Disorder-Targeted Intervention with Ontario's Autism Intervention Program M. Rayar[1], M. Penner[2], N. Bashir[1], R. L. Hancock-Howard[3], W. Roberts[4] and P. Coyte[5], (1)Hospital for Sick Children, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Institute of Health Policy, Management and Evaluation, Unviersity of Toronto, Toronto, ON, Canada, (4)Integrated Services for Autism and Neurodevelopmental Disorders, Toronto, ON, Canada, (5)Institute of Health Policy, Managment and Evaluation, University of Toronto, Toronto, ON, Canada

64 123.064 Developmental Trajectories of Response to Treatment for Toddlers with Autism: Findings from the Early Social Interaction Project W. Guthrie[1], C. Lord[2] and A. M. Wetherby[1], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Weill Cornell Medical College, White Plains, NY

65 123.065 Dosage Effects of an Early and Intense Motor Skill Intervention in Young Children with ASD L. R. Ketcheson[1] and J. Hauck[2], (1)Sunfield Center for Autism, ADHD and Behavioral Health, Ann Arbor, MI, (2)Kinesiology, Michigan State University, East Lansing, MI

66 123.066 Effect of Comorbid Psychopathology on Response to Pivotal Response Treatment D. Oosting[1], H. E. Friedman[2], C. M. Keifer[2], A. J. Schneider[3], C. A. Paisley[3], A. Jack[2], N. M. McDonald[4], K. Pelphrey[2] and P. Ventola[2], (1)Yale Child Study Center, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Center for Translational Developmental Neuroscience, Yale University, New Haven, CT, (4)Child Study Center, Yale School of Medicine, New Haven, CT

67 123.067 Effectiveness of Using a Mobile App Parent Training Program to Increase Language in Children with Autism G. C. Law, M. F. Neihart and A. S. Dutt, Psychological Studies Academic Group, National Institute of Education, Singapore, Singapore

68 123.068 Effects of School-Based Interactive Book Reading on the Vocabulary and Emergent Literacy of Preschoolers with ASD R. Hudson, I. S. Schwartz and R. M. Greenway, College of Education, University of Washington, Seattle, WA

69 123.069 Enhancing the Social Interactions of Preschool Children with Autism: The Effectiveness of a Peer-Mediated Intervention M. K. McCalla[1], S. E. Edwards Leger[2], A. R. Lemelman[2], E. P. Trinh[2], C. O. Leonczyk[2] and S. Mrug[2], (1)Kennedy Krieger Institute, Baltimore, MD, (2)University of Alabama at Birmingham, Birmingham, AL

70 123.070 Evaluation of the PEERS Play Intervention for Preschoolers with Autism Spectrum Disorder (ASD) K. Toth[1], G. L. Boulware[2], R. Leon-Guerrero[2], A. Wolken[3] and S. J. Webb[3], (1)Center for Child Health, Behavior and Development, Seattle Children's Research Institute, Seattle, WA, (2)PEERS Play, Seattle, WA, (3)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA

71 123.071 Family Implemented TEACCH for Toddlers (FITT) Reduces Parent Stress and Improves Toddler Social-Communication Skills: Results from a Small, Randomized Controlled Trial L. Turner-Brown[1], K. Hume[2], B. A. Boyd[3], K. Kainz[4], S. Jennings[4], S. Zheng[5] and C. C. Arnold[4], (1)Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of North Carolina at Chapel HIll, Chapel Hill, NC, (3)Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)School of Education, University of North Carolina at Chapel Hill, Chapel Hill, NC

72 123.072 Gesture in Toddlers with Autism Spectrum Disorder: Before and after Intervention E. S. LeBarton[1,2] and R. J. Landa[3], (1)Johns Hopkins School of Medicine, Baltimore, MD, (2)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (3)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD

73 123.073 Impact of Parent Training on Parental Competence and Parental Stress L. Lecavalier, Psychology, The Ohio State University, Columbus, OH

74 123.074 Implementation and Impact of Focused Early Intervention Services A. Stainbrook[1], C. G. Herrington[2], N. Broderick[3], Z. Warren[4] and A. P. Juárez[5], (1)Kennedy Center and Department of Pediatrics, Vanderbilt University, Nashville, TN, (2)Vanderbilt Kennedy Center, Vanderbilt University, Nashville, TN, (3)Kennedy Center, Vanderbilt University, Nashville, TN, (4)Vanderbilt University, Nashville, TN, (5)Pediatrics & Psychiatry, Vanderbilt Kennedy Center, Nashville, TN

75 ▸ 123.075 Improved Parent Interaction Style Associated with Improved Child-Parent Joint Engagement 3-Months after a Low-Cost, Group, Parent-Training Workshop K. Houghton[1], A. Rattazzi[2], S. H. Cukier[2], P. Landolfi[2] and C. Lewis[3], (1)Lancaster University, Chatham, NY, (2)PANAACEA, Buenos Aires, Argentina, (3)Psychology, Lancaster University, Lancaster, United Kingdom

76 123.076 Joint Attention during an ABA Intervention Session Can Predict Progress of Preschoolers with Autism Spectrum Disorder S. Van der Paelt, P. Warreyn and H. Roeyers, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium

77 123.077 Lasting Effects of a 12-Week Group Parent Education Model for Pivotal Response Treatment E. Salzman[1], S. Schapp[1], E. Solomon[2], K. L. Berquist[3], M. B. Minjarez[4], T. W. Frazier[5], J. M. Phillips[6], G. W. Gengoux[6] and A. Y. Hardan[6], (1)PGSP-Stanford Psy.D. Consortium, Palo Alto, CA, (2)PGSP-Stanford Psy.D. Consortium, Mountain View, CA, (3)Stanford University, Stanford, CA, (4)Psychiatry and Behavioral Sciences, Seattle Children's Hospital, Seattle, WA, (5)Cleveland Clinic, Center for Autism, Cleveland Clinic Children's, Cleveland, OH, (6)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

78 123.078 Long-Term Outcomes of Early Intervention in 6-Year-Old Children with Autism A. M. Estes[1], S. J. Rogers[2], J. Greenson[1], J. Munson[3], J. Winter[4] and G. Dawson[5], (1)Speech and Hearing Sciences, University of Washington, Seattle, WA, (2)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (3)University of Washington, Seattle, WA, (4)Psychiatry, Weill Cornell Medical College, White Plains, NY, (5)Psychiatry and Behavioral Sciences, Duke University, Durham, NC

79 ▸ 123.079 Parent-Mediated Intervention for Hispanic Families of Young Children with Autism J. Kinard[1] and L. R. Watson[2], (1)The University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Division of Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC

80 123.080 Pilot Randomized Controlled Trial of the Effects of Reciprocal Imitation Training on Children with Autism S. Malik[1], C. Oliver[1], J. Moss[1], B. Ingersoll[2], C. Stefanidou[1] and J. McCleery[3], (1)School of Psychology, University of Birmingham, Birmingham, United Kingdom, (2)Psychology, Michigan State University, East Lansing, MI, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

81 123.081 Pivotal Response Treatment Alters Brain Function in Children with Autism G. Rosenblau[1], A. T. Friedman[2], B. C. Vander Wyk[3], K. Pelphrey[3] and P. Ventola[3], (1)Center for Translational Developmental Neuroscience, Yale Child Study Center, Yale University, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)Child Study Center, Yale University, New Haven, CT

82 123.082 Pivotal Response Treatment Improves Neural Efficiency for Social Perception in Children with Autism Spectrum Disorder M. Rolison[1], J. H. Foss-Feig[2], R. Tillman[3], H. S. Reuman[2], A. Naples[2], K. Pelphrey[2], P. Ventola[2] and J. C. McPartland[2], (1)Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)University of Maryland, College Park, MD

83 123.083 Predicting Growth of Communication Skills of Preschoolers with Autism Spectrum Disorder during Treatment in a Community-Based Pivotal Response Treatment Program K. L. Fossum[1], L. Williams[2] and I. M. Smith[3], (1)Psychological Services, IWK Health Centre, Halifax, NS, Canada, (2)Psychology & Neuroscience, Dalhousie University, Halifax, NS, Canada, (3)Dalhousie University / IWK Health Centre, Halifax, NS, Canada

84 123.084 Predictors of Successful Parent Training in Pivotal Response Treatment during the Jumpstart Program: Parent Mental Health and Self-Efficacy N. L. Matthews[1], B. Conti[2], B. Harris[1] and C. J. Smith[3], (1)Southwest Autism Research and Resource Center, Phoenix, AZ, (2)Clinical Programs, Southwest Autism Research & Resource Center, Phoenix, AZ, (3)Research, Southwest Autism Research & Resource Center, Phoenix, AZ

85 123.085 Prevalence and Correlates of Use of Complementary and Alternative Medicine in Children with Autism Spectrum Disorder in Europe E. Salomone[1], T. Charman[1], H. McConachie[2] and P. Warreyn[3], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium

86 123.086 Receipt of Early Childhood Special Education and Therapeutic Services Prior to Autism Diagnostic Evaluations in Children Referred to a Regional Autism Clinic S. Monteiro[1], L. Berry[2], A. Spinks-Franklin[3], D. Treadwell-Deering[4], S. Broton[4], J. Dempsey[5], R. P. Goin-Kochel[6] and R. G. Voigt[3], (1)Pediatrics, Baylor College of Medicine/Texas Childrens Hospital, Houston, TX, (2)Suite 180, Baylor College of Medicine, Houston, TX, (3)Pediatrics, Baylor College of Medicine, Houston, TX, (4)Pediatrics, Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (5)Baylor College of Medicine, Houston, TX, (6)Autism Center, Texas Children's Hospital, Houston, TX

87 123.087 Reliability of Retrospective Parent Report: Hours and Type of Intervention L. D. Haisley, M. L. Barton and D. A. Fein, Psychology, University of Connecticut, Storrs, CT

88 123.088 Sensory Treatment for Autism to Alleviate Tactile Abnormalities Reduces Severity of Autism and Improves Self-Regulation: A Randomized Controlled Trial in 100 Pre-School Children L. Silva and M. Schalock, Teaching Research Institute, Western Oregon University, Monmouth, OR

89 123.089 Student Change in Response to Early Achievements Intervention Translated for Public Preschool Classrooms K. P. Wilson[1], R. J. Landa[2] and E. Stripling[3], (1)8000 York Road, Towson University, Towson, MD, (2)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD

90 123.090 Telehealth Delivery of Cognitive-Behavioral Intervention for Anxiety in Youth with ASD: Perspectives of Parents in Rural Communities S. L. Hepburn[1], J. Reaven[2] and A. Blakeley-Smith[2], (1)Psychiatry & Pediatrics, JFK Partners/University of Colorado School of Medicine, Aurora, CO, (2)Psychiatry, JFK Partners/University of Colorado School of Medicine, Aurora, CO

91 123.091 The Effect of an Outdoor Adventure Program on Functioning of Children with Autism Spectrum Disorder D. A. Zachor[1], S. Vardi[2], I. Brodai-Meir[3], S. Eitan[3] and E. Ben Itzchak[4], (1)Pediatrics, Assaf Harofeh Medical Center, Tel Aviv University, Zerifin, Israel, (2)Etgarim non-profit organization, Tel Aviv, Israel, (3)Ariel University, Ariel, Israel, (4)Ariel University/ Assaf Harofeh Medical Center, Ariel, Israel

92 123.092 The Effects of Teacher Perceptions on Fostering Engagement during Dyadic Play Interactions with Students with ASD J. Panganiban[1], H. Gould[2], Y. C. Chang[3], S. Y. Shire[4] and C. Kasari[5], (1)University of California, Los Angeles, Arcadia, CA, (2)UCLA, Los Angeles, CA, (3)Semel Institute, UCLA, Los Angeles, CA, (4)University of California Los Angeles, Los Angeles, CA, (5)UCLA Center for Autism Research & Treatment, Westwood, CA

93 123.093 Toddlers and Families Together: Caregiver Implementation and Perceptions of Strategies to Facilitate Joint Engagement C. Wong[1,2], K. C. Gallagher[1], J. Page[1], K. Wong[1], G. Arellano[1] and S. Arbiv[1], (1)UNC Frank Porter Graham Child Development Institute, Chapel Hill, NC, (2)UCSD Child & Adolescent Services Research Center, San Diego, CA

94 123.094 Using EEG to Target GABA-a for the Treatment of Social Disability in Young Adults with Autism Spectrum Disorders S. Loo[1], S. J. Webb[2], I. Mohammad-Rezazadeh[3], G. Frishkoff[4], R. T. Amoss[5], B. H. King[6], L. Scahill[7] and J. T. McCracken[8], (1)Psychiatry and Biobehavioral Sciences, UCLA David Geffen School of Medicine, Los Angeles, CA, (2)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (3)Semel Institute for Neuroscience and Human Behavior, UCLA, Los Angeles, CA, (4)Cognitive Sciences Program, Georgia State University, Atlanta, GA, (5)Marcus Autism Center, Emory University School of Medicine, Atlanta, GA, (6)Psychiatry and behavioral sciences, University of Washington, Seattle, WA, (7)Pediatrics, Marcus Autism Center, Atlanta, GA, (8)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

95 123.095 Why High-Risk Families Decline Early Treatment: Barriers to Treating at-Risk Siblings K. K. Powell[1], E. Schoen Simmons[1] and K. Chawarska[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT

96 123.096 Efficacy of Adapted Responsive Teaching in a Community Sample of One-Year-Olds at-Risk for ASD L. R. Watson[1], E. R. Crais[1], G. T. Baranek[2], L. Turner-Brown[3], J. Sideris[4], J. S. Reznick[5], L. Wakeford[2], J. Kinard[6] and K. L. Martin[7], (1)Division of Speech and Hearing Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Division of Occupational Science and Occupational Therapy, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)TEACCH Division, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Frank Porter Graham Child Development Institute, Chapel Hill, NC, (5)Psychology, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)The University of North Carolina at Chapel Hill, Chapel Hill, NC, (7)Carolina Institute for Developmental Disabilities, The University of North Carolina at Chapel Hill, Chapel Hill, NC

Poster Session
124 - Early Development (<48 Months)
5:30 PM - 7:00 PM - Imperial Ballroom

97 124.097 18-Month Predictors of Later Outcomes in Younger Siblings of Children with Autism Spectrum Disorder: A Bsrc Study K. Chawarska[1], F. Shic[1], S. Macari[1], D. J. Campbell[2], J. A. Brian[3], R. J. Landa[4], T. Hutman[5], C. A. Nelson[6], S. Ozonoff[7], H. Tager-Flusberg[8], G. S. Young[9], I. L. Cohen[10], T. Charman[11], D. S. Messinger[12], S. Johnson[13], L. Zwaigenbaum[14], A. Klin[15] and S. E. Bryson[16], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Amgen, Inc., Thousand Oaks, CA, (3)150 Kilgour Rd., Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (4)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (5)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (6)Division of Developmental Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA, (7)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (8)Boston University, Boston, MA, (9)MIND Institute, University California Davis, Sacramento, CA, (10)Psychology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (11)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (12)University of Miami, Coral Gables, FL, (13)University of California Los Angeles, Los Angeles, CA, (14)University of Alberta, Edmonton, AB, Canada, (15)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (16)Autism Research Centre, Dalhousie/IWK Health Centre, Halifax, NS, Canada

98 124.098 A Comparison of Live Versus Video Modalities for Measurement of Eye Contact in Infants at Age 6 Months As 'Red Flags' for ASD A. Townsend[1], J. A. Chevallier[2], P. A. Filipek[1], C. Laufer[1], M. M. Abdullah[3], P. Horner[3], J. T. Phan[3], K. Pham[3], K. Jung[1] and J. M. Williams[1], (1)University of Texas Health Science Center at Houston, Houston, TX, (2)UT Houston, Houston, TX, (3)University of California, Irvine, Irvine, CA

99 124.099 A Computational Approach to Eye-Tracking Analysis Reveals Slower Orienting to Movements in Social Scenes in Toddlers with ASD Q. Wang, S. Macari, K. Chawarska and F. Shic, Child Study Center, Yale University School of Medicine, New Haven, CT

100 124.100 A Dynamic Eye-Tracking Paradigm: Eye Gaze Patterns in Typically Developing and Infants at-Risk for Autism C. Parikh and A. M. Mastergeorge, Family Studies and Human Development, University of Arizona, Tucson, AZ

101 124.101 A Novel Parent Report Questionnaire of Early Behavioral Signs Between 6 and 24 Months of Age: The Autism Parent Screen for Infants S. E. Bryson[1], L. A. Sacrey[2], L. Zwaigenbaum[2], J. A. Brian[3], I. M. Smith[4], W. Roberts[5], P. Szatmari[6], T. Vaillancourt[7], C. Roncadin[8] and N. Garon[9], (1)Autism Research Centre, Dalhousie/IWK Health Centre, Halifax, NS, Canada, (2)University of Alberta, Edmonton, AB, Canada, (3)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)University of Toronto, Bracebridge, ON, Canada, (6)University of Toronto, Toronto, ON, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)Kinark Child and Family Services, Markham, ON, Canada, (9)Psychology, Mount Allison University, Sackville, NB, Canada

102 ▸ 124.102 A Preliminary Investigation of Child, Caregiver and Sociocultural Factors Influencing Caregiver-Reported Autistic Trait Scores on the Quantitative – Checklist for Autism in Toddlers (Q-CHAT) in an Unselected Sample of Asian Toddlers I. Magiati[1], D. A. Goh[2], D. Gan[3], J. Kung[3], B. F. Broekman[4], A. Rifkin-Graboi[5], P. K. Agarwal[6], H. Y. Chen[7], S. M. Saw[8], Y. S. Chong[9], K. Y. Kwek[10], P. Gluckman[11] and M. Meaney[12], (1)National University of Singapore, Singapore, Singapore, (2)Department of Psychology, National University of Singapore, Singapore, Singapore, (3)Psychology, National University of Singapore, Singapore, Singapore, (4)Singapore Institute for Clinical Sciences, Singapore, Singapore, (5)Growth, development, and metabolism, A-Star, Singapore institute for clinical sciences, Singapore, Singapore, (6)Psychology, KK Women's and Children's Hospital, Singapore, Singapore, (7)KK Women's and children's Hospital, Department of Psychological Medicine, Singapore, Singapore, (8)Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore, (9)Yong Loo Lin School of Medicine, Department of Obstetrics and Gynaecology, National University of Singapore, Singapore, Singapore, (10)KK Women's and Children's Hospital, Singapore, Singapore, (11)Liggins Institute, University of Auckland, Auckland, Australia, (12)Singapore Institute of Clinical Sciences, A-Star, Singapore, Singapore

103 124.103 Acoustic Properties of Affective Vocalizations Produced By Six-Month-Old High- and Low-Risk Infants L. DiNicola[1], E. Schoen Simmons[1], F. Shic[2], R. Paul[3] and K. Chawarska[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Sacred Heart University, Fairfield, CT

104 124.104 Adaptive Behavior Profiles in Toddlers with Autism Spectrum Disorders R. E. Nevill[1], D. Hedley[2], N. Fields[3], Y. Monroy Moreno[4], J. Wilkins[5], J. A. Mulick[6] and E. Butter[5], (1)The Ohio State University, Columbus, OH, (2)LaTrobe University, Melbourne, Australia, (3)Kent State University, Kent, OH, (4)National Autonomous University of Mexico, Iztacala, Mexico, (5)Nationwide Children's Hospital, Westerville, OH, (6)Pediatrics, The Ohio State University, Westerville, OH

105 ▸ 124.105 An Autism Screening Tool for Underserved Young Children: Preliminary Findings Y. Janvier[1], J. Harris[2], D. S. Mandell[3], M. Xie[3] and M. Zuniga[2], (1)Medicine, Children's Specialized Hospital, Toms River, NJ, (2)Children's Specialized Hospital, Mountainside, NJ, (3)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA

106 124.106 Anogenital Distance (AGD): A Novel Biomarker of Elevated Fetal Androgen Activity in Toddlers with Autism? A. L. Pohl[1], L. Ruta[2,3], A. Gagliano[4], M. L. Eisenberg[5], M. Hsieh[6] and S. Baron-Cohen[1,7], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Stella Maris Scientific Institute, Calambrone (Pisa), Italy, (3)Institute of Clinical Physiology, National Research Council of Italy, Messina, Italy, (4)Department of Paediatrics, University of Messina, Messina, Italy, (5)Department of Urology, Stanford University, Stanford, CA, (6)Department of Urology, Children's National Health System, Washington, DC, (7)CLASS Clinic, Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom

107 124.107 Associations Between Behavior Problems and Dopaminergic Variants in High- and Low-Risk Siblings D. N. Gangi[1], D. S. Messinger[2], L. V. Ibanez[3], W. L. Stone[3], M. L. Cuccaro[4] and E. R. Martin[4], (1)5665 Ponce de Leon Blvd, University of Miami, Coral Gables, FL, (2)University of Miami, Coral Gables, FL, (3)Psychology, University of Washington, Seattle, WA, (4)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL

108 124.108 Attention Shifting from Emotional Faces in High-Risk Infants and Relations with Later Social-Communicative Behavior J. B. Wagner[1], B. Keehn[2], H. Tager-Flusberg[3] and C. A. Nelson[4], (1)Department of Psychology, College of Staten Island, CUNY, Staten Island, NY, (2)Purdue University, West Lafayette, IN, (3)Boston University, Boston, MA, (4)Division of Developmental Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA

109 124.109 Attention and Proximity to Threat Among Toddlers with Autism Spectrum Disorders G. Greco[1], S. Macari[2], L. DiNicola[1], L. Flink[2], S. S. Lansiquot[2] and K. Chawarska[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT

110 124.110 Attention to Conspecific Auditory Information in Infants at-Risk for Autism J. D. Ference[1], A. Sorcinelli[2], S. Curtin[1] and A. Vouloumanos[2], (1)University of Calgary, Calgary, AB, Canada, (2)New York University, New York, NY

111 124.111 Attentional Protective Factors in Typically-Developing 6-Month-Old Girls at High-Risk for Autism F. Shic[1], S. Macari[2] and K. Chawarska[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT

112 124.112 Can ASD and ADHD Symptoms in Children with Autism Predict Early Attentional Disengagement in Their Infant Siblings? C. H. Cheung[1], E. Jones[2], T. Gliga[2], G. Pasco[1], M. H. Johnson[2] and T. Charman[1], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom

113 124.113 Catching up Vs. Falling behind: Longitudinal Investigation of Developmental and Adaptive Skills in Toddlers with ASD J. Lorenzi[1,2], C. Klaiman[2], C. A. Saulnier[2] and S. Hoffenberg[2], (1)Virginia Tech, Blacksburg, VA, (2)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

114 124.114 Cerebellum Enlargement in 4-6-Month-Old Infants at High Familial Risk of Autism Spectrum Disorders I. Pote[1], S. Wang[2], A. Blasi[3], T. Charman[4], E. Daly[1], M. H. Johnson[3], M. Kuklisova-Murgasova[5], S. Lloyd-Fox[3], E. Mercure[6], V. Sethna[1], S. Williams[7], D. G. Murphy[1] and G. M. McAlonan[1], (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Department of Engineering Science, Institute of Biomedical Engineering, University of Oxford, Oxford, United Kingdom, (3)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom, (4)Department of Psychology, Henry Wellcome Building, King's College London, London, United Kingdom, (5)Division of Imaging Sciences and Biomedical Engineering, King's College London, London, United Kingdom, (6)University College London, Institute of Cognitive Neuroscience, London, United Kingdom, (7)Department of Neuroimaging, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

115 124.115 Characterising 'other Developmental Concerns (ODC)' at 36 Months in Infants at Familial High-Risk for Autism Spectrum Disorder: A Bsrc Study T. Charman[1], J. A. Brian[2], K. Chawarska[3], S. Georgiades[4], I. Hertz-Picciotto[5], J. M. Iverson[6], E. Jones[7], R. J. Landa[8], S. Macari[3], D. S. Messinger[9], C. A. Nelson[10], S. Ozonoff[11], C. A. Saulnier[12], W. L. Stone[13], T. Hutman[14], S. J. Webb[15], N. Yirmiya[16] and G. S. Young[17], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)150 Kilgour Rd., Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (3)Child Study Center, Yale University School of Medicine, New Haven, CT, (4)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (5)Public Health Sciences, University of California, Davis, Davis, CA, (6)University of Pittsburgh, Pittsburgh, PA, (7)Birkbeck College, University of London, London, United Kingdom, (8)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (9)University of Miami, Coral Gables, FL, (10)Education, Harvard Univesity, cambridge, MA, (11)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (12)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (13)Psychology, University of Washington, Seattle, WA, (14)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (15)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (16)Psychology Department, Hebrew University, Jerusalem, Israel, (17)MIND Institute, University California Davis, Sacramento, CA

116 124.116 Clinical Correlates of Social Affect in Early Infancy: Implications for Early Identification of Autism Spectrum Disorder J. Bradshaw[1], L. K. Koegel[2] and R. L. Koegel[2], (1)Clinical, Counseling, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, (2)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

117 124.117 Cognitive and Adaptive Functioning of Children Who Lose Their ASD Diagnosis E. Moulton[1], M. L. Barton[1] and D. A. Fein[2], (1)Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT

118 124.118 Contingent Maternal Vocal Responses to 9-Month-Old Infant Siblings of Children with Autism M. R. Talbott[1], C. A. Nelson[2] and H. Tager-Flusberg[3], (1)University of California, Davis, MIND Insitute, Sacramento, CA, (2)Education, Harvard Univesity, Cambridge, MA, (3)Boston University, Boston, MA

119 124.119 Contingent Smiling Behavior in 2-to 5-Month-Old Infants with and without ASD during Dyadic Interactions R. Sandercock[1], W. Jones[1], A. Klin[1] and S. Shultz[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

120 124.120 Decreased Neural Response to Touch As a Marker of Autism Risk Across the First Year of Life H. M. Fichtenholtz[1], N. M. McDonald[2], L. C. Anderson[3], C. M. Keifer[4], H. E. Friedman[5], J. A. Eilbott[6] and K. Pelphrey[4], (1)Yale School of Medicine, West Haven, CT, (2)Yale School of Medicine, Fairfield, CT, (3)Psychology, University of Maryland, College Park, MD, (4)Child Study Center, Yale University, New Haven, CT, (5)Yale Child Study Center, New Haven, CT, (6)Yale University, New Haven, CT

121 124.121 Developmental Plateaus in Gaze Following in 24-Month-Old Toddlers with ASD: An Eye-Tracking Study L. DiNicola[1], E. S. Kim[1], C. A. Wall[1], G. Greco[2], S. S. Lansiquot[2], L. Flink[2], Q. Wang[1], S. Macari[2], F. Shic[1] and K. Chawarska[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT

122 124.122 Differences in Means-End Exploration Between Infants at Risk for Autism and Typically Developing Infants in the First 15 Months of Life S. Srinivasan[1], M. Kaur[1] and A. N. Bhat[1,2], (1)Department of Physical Therapy, University of Delaware, Newark, DE, (2)Center for Health, Intervention & Prevention, Department of Psychology, University of Connecticut, Storrs, CT

123 124.123 Does Functional Gaze Following of Children with an Autism Spectrum Disorder Really Rely on Gaze Direction? an Eye-Tracking Study L. Van Schuerbeeck[1], M. A. Braeken[1], R. Meesen[2], J. Steyaert[3] and M. Vanvuchelen[4], (1)Hasselt University, Diepenbeek, Belgium, (2)Faculty of Medicine and Life Sciences, Hasselt University, Diepenbeek, Belgium, (3)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (4)Hasselt University Faculty of Medicine and Life Sciences, Diepenbeek, Belgium

124 124.124 Early Gross and Fine Motor Abilities in Infants at Heightened Vs. Low Risk for ASD: A Bsrc Study J. M. Iverson[1], F. Shic[2], C. A. Wall[3], Y. Bensinger-Brody[4], S. Curtin[5], A. M. Estes[6], J. M. Gardner[7], T. Hutman[8], S. Johnson[9], B. Z. Karmel[7], R. J. Landa[10], A. R. Levin[11], K. Libertus[1], D. S. Messinger[12], C. A. Nelson[13], S. Ozonoff[14], J. Piven[15], S. J. Rogers[16], L. A. Sacrey[17], K. Sheperd[18], W. L. Stone[19], H. Tager-Flusberg[20], J. J. Wolff[21], N. Yirmiya[22] and G. S. Young[23], (1)University of Pittsburgh, Pittsburgh, PA, (2)Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Yale University, New Haven, CT, (4)Physical Therapy, Touro College, Bay Shore, NY, (5)University of Calgary, Calgary, AB, Canada, (6)Speech and Hearing Sciences, University of Washington, Seattle, WA, (7)Infant Development, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (8)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (9)University of California Los Angeles, Los Angeles, CA, (10)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (11)Neurology, Boston Children's Hospital, Boston, MA, (12)University of Miami, Coral Gables, FL, (13)Division of Developmental Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA, (14)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (15)*Shared Senior Author, NC, (16)University of California at Davis, Sacramento, CA, (17)University of Alberta, Edmonton, AB, Canada, (18)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (19)Psychology, University of Washington, Seattle, WA, (20)Boston University, Boston, MA, (21)Department of Educational Psychology, University of Minnesota, Minneapolis, MN, (22)Psychology Department, Hebrew University, Jerusalem, Israel, (23)MIND Institute, University California Davis, Sacramento, CA

125 124.125 Early Social Communication Predictors of Clinical Diagnosis from 18 to 24 Months T. N. Day[1], W. Guthrie[1], C. Schatschneider[2] and A. M. Wetherby[1], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Florida State University, Tallahassee, FL

126 124.126 Early Social Development in Preschoolers with Autism Spectrum Disorders: A Comparison of DSM-5 Profiles T. A. Bennett[1], P. Szatmari[2], E. K. Duku[1], S. Georgiades[3], S. E. Bryson[4], E. J. Fombonne[5], I. M. Smith[6], P. Mirenda[7], J. Volden[8], C. Waddell[9], L. Zwaigenbaum[8], W. Roberts[10], T. Vaillancourt[11], M. Elsabbagh[12], A. Zaidman-Zait[13] and A. Thompson[1], (1)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (2)University of Toronto, Toronto, ON, Canada, (3)McMaster University, Hamilton, ON, Canada, (4)Autism Research Centre, Dalhousie/IWK Health Centre, Halifax, NS, Canada, (5)Oregon Health & Science University, Portland, OR, (6)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (7)University of British Columbia, Vancouver, BC, Canada, (8)University of Alberta, Edmonton, AB, Canada, (9)Faculty of Health Sciences, Simon Fraser University, Vancouver, BC, Canada, (10)Pediatrics, University of Toronto, Toronto, ON, Canada, (11)University of Ottawa, Ottawa, ON, Canada, (12)Department of Psychiatry, McGill University, Montreal, QC, Canada, (13)Tel-Aviv University, Tel-Aviv, Israel

127 ▸ 124.127 Effects of Race, Ethnicity, and Maternal Education on Reported Regression in Children with Autism Spectrum Disorder (ASD) J. B. Swanson[1], A. Spinks-Franklin[1], L. Berry[2], D. Guffey[3], C. G. Minard[3], R. G. Voigt[1] and R. P. Goin-Kochel[1], (1)Pediatrics, Baylor College of Medicine, Houston, TX, (2)Texas Children's Hospital, Autism Center, Baylor College of Medicine, Houston, TX, (3)Dan L. Duncan Institute for Clinical and Translational Research, Baylor College of Medicine, Houston, TX

128 124.128 Emotional Reactivity in Toddlers with ASD: Diminished Response to Threatening Stimuli during the Laboratory Temperament Assessment Battery (Lab-TAB) S. Macari[1], L. DiNicola[1], A. C. Dowd[2], L. Flink[1], E. B. Gisin[1], G. Greco[1], S. S. Lansiquot[1], E. Prince[1], S. H. Kim[1], F. Shic[1] and K. Chawarska[1], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Department of Psychology, University of Texas at Austin, Austin, TX

129 124.129 Empathy Emerges: Attention and Affective Responses to Maternal and Experimenter Distress in Infants at Risk for Autism at 12- and 15-Months A. C. Dowd[1], B. G. Davidson[2], J. G. Hixon[1] and A. R. Neal-Beevers[1], (1)Department of Psychology, University of Texas at Austin, Austin, TX, (2)Dept of Psychology, University of Texas at Austin, Austin, TX

130 124.130 Examining the Structure of Temperament Traits in Toddlers with and without ASD C. A. Wall[1], L. Flink[2], S. S. Lansiquot[2], S. H. Kim[1], F. Shic[2], J. Koller[3], K. Chawarska[2] and S. Macari[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT, (3)The School of Education, The Hebrew University of Jerusalem, Jerusalem, Israel

131 124.131 Exploring the Relationships Between Visual Preference for Biological Motion, Joint Attention Behaviors and Language Development in Young Children with Autism Spectrum Disorders M. Franchini[1], H. Wood de Wilde[1], B. Glaser[2], E. Gentaz[3], S. Eliez[2] and M. Schaer[1,4], (1)Office Médico-Pédagogique, University of Geneva, Geneva, Switzerland, (2)University of Geneva Medical School, Geneva, Switzerland, (3)Faculty of Psychology and Educational Sciences, University of Geneva, Geneva, Switzerland, (4)Stanford Cognitive & Systems Neuroscience Laboratory, Stanford University, Palo Alto, CA

132 124.132 Frequencies of Vaccine Uptake in Children with Autism Spectrum Disorder and Type of Onset Described By Parents R. P. Goin-Kochel[1,2], S. S. Mire[3], R. H. Fein[4], A. G. Dempsey[5], D. Guffey[6], C. G. Minard[7], R. M. Cunningham[8], L. C. Sahni[9] and J. A. Boom[8], (1)Pediatrics, Baylor College of Medicine, Houston, TX, (2)Autism Center, Texas Children's Hospital, Houston, TX, (3)Educational Psychology, University of Houston, Houston, TX, (4)University of Houston, Houston, TX, (5)Pediatrics, University of Texas Health Sciences Center, Houston, TX, (6)Baylor College of Medicine, Houston, TX, (7)Dan L. Duncan Institute for Clinical and Translational Research, Baylor College of Medicine, Houston, TX, (8)Texas Children's Hospital, Houston, TX, (9)Immunization Project, Texas Children's Hospital, Houston, TX

133 124.133 Gaze Following in Infants at Risk for Autism: The Role of Eye Information, Head Turns and Salient Objects E. Thorup[1], P. Nystrom[1], G. Gredebäck[1], S. Bolte[2] and T. Falck-Ytter[3], (1)Department of Psychology, Uppsala University, Uppsala, Sweden, (2)Division of Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden, (3)Dept. of Women's & Children's Health, Karolinska Institute, Stockholm, Sweden

134 124.134 Growth Trajectories in Initiating Joint Attention during the First Three Years of Life in Siblings of Children with Autism Spectrum Disorder M. Dereu, H. Roeyers, S. Van der Paelt, P. Warreyn and I. Schietecatte, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium

135 124.135 Infants and the Emerging Autism Phenotype A. Gulsrud[1], T. Carr[2], L. Huynh[3], K. Berry[3], T. Paparella[2] and C. Kasari[4], (1)UCLA, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)UCLA Center for Autism Research & Treatment, Westwood, CA

136 124.136 Inhibited Toddlers and ASD Screening A. Ben-Sasson, University of Haifa, Haifa, Israel

137 124.137 Jealousy and Social Engagement in Very Young Children with Autism Spectrum Disorders N. Bauminger, Bar-Ilan University, Ramat Gan, Israel

138 124.138 Joint Attention and Language Development in Infants at Risk for Autism B. G. Davidson[1], A. R. Neal-Beevers[2] and J. Cartwright[3], (1)Dept of Psychology, University of Texas at Austin, Austin, TX, (2)Department of Psychology, University of Texas at Austin, Austin, TX, (3)UT Southwestern, Dallas, TX

139 124.139 Latency to Share Interest at 12 Months Is Associated with Joint Attention Trajectories in Infants at High and Low Risk for ASD C. Ponting, M. La-Vu, C. Dull and T. Hutman, Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA

140 124.140 Longitudinal Development of Preferential Attention to Biological Motion in Infants at Low and High Risk for Developing ASD L. Olson[1], R. D. Sifre[2], S. Shultz[3], W. Jones[4] and A. Klin[4], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, Atlanta, GA, (2)Marcus Autism Center, Emory University School of Medicine, Children's Healthcare of Atlanta, Atlanta, GA, (3)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

141 124.141 M-CHAT-R with Follow-up Phone Interview (M-CHAT-R/F): Analysis of Changed Responses K. R. Bradbury[1], D. L. Robins[2], M. L. Barton[1] and D. A. Fein[1], (1)Psychology, University of Connecticut, Storrs, CT, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

142 124.142 Measuring the Importance of Fyi Screener Items in Predicting Adost Totals at 12 and 18 Months: A Machine Learning Approach E. S. Kim[1], S. H. Kim[2], S. Macari[3], K. Chawarska[3] and F. Shic[3], (1)Yale University, New Haven, CT, (2)40 Temple St., Suite 7D, Yale University, New Haven, CT, (3)Child Study Center, Yale University School of Medicine, New Haven, CT

143 124.143 Motor Development, Autism Symptoms, and Emerging Executive Functioning in Infants and Toddlers at High and Low Risk for ASD T. St. John[1], A. M. Estes[2], S. L. Alvarez[3], S. Dager[3], S. J. Paterson[4], J. Pandey[5], R. T. Schultz[4], J. R. Pruett[6], K. N. Botteron[7], H. C. Hazlett[8] and J. Piven[6], (1)University of Washington Autism Center, Seattle, WA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA, (3)University of Washington, Seattle, WA, (4)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Children's Hospital of Philadelphia, Philadelphia, PA, (6)*Shared Senior Author, NC, (7)Washington University School of Medicine in St. Louis, St. Louis, MO, (8)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC

144 124.144 Online Queries of Parents Suspecting Their Child Has ASD: A Clinician Mediated Machine Learning Prediction of ASD Risk E. Yom-Tov[1] and A. Ben-Sasson[2], (1)Microsoft Research Israel, Herzeliya, Israel, (2)University of Haifa, Haifa, Israel

145 124.145 Optimizing Stimulus Selection for Early Detection of ASD Based on Preferential Attention to Audiovisual Synchrony in Toddlers A. Abraham[1], A. Trubanova[2], J. B. Northrup[3], D. Lin[4], P. Lewis[5], A. Klin[1], W. Jones[1] and G. J. Ramsay[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (3)University of Pittsburgh, Pittsburgh, PA, (4)Department of Neurology, Massachusetts General Hospital, Boston, MA, (5)Marcus Autism Center, Atlanta, GA

146 124.146 Parent Education Level and Developmental Progress in Toddlers with ASD T. Aronson[1], J. Lorenzi[1,2] and S. Hoffenberg[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Virginia Tech, Blacksburg, VA

147 124.147 Parent Prediction of ASD in Infants at Risk C. Wang[1], M. Feldman[2], R. A. Ward[3], M. L. Hudson[4] and X. Liu[5], (1)Centre for Applied Disability Studies, Brock University, New Westminster, BC, Canada, (2)Centre for Applied Disability Studies, Brock University, St. Catharines, ON, Canada, (3)Applied Disability Studies, Brock University, St. Catharines, ON, Canada, (4)Psychiatry, Queen's University, Kingston, ON, Canada, (5)Psychiatry, Queen's University, Kingston, ON, Canada

148 124.148 Parental Concerns and Their Relation to Early Intervention and Social-Communicative Functioning within the First Two Years of Life L. V. Ibanez[1], E. A. Karp[2], Z. Warren[3], D. S. Messinger[4] and W. L. Stone[2], (1)University of Washington, Seattle, WA, (2)Psychology, University of Washington, Seattle, WA, (3)Pediatrics, Vanderbilt University, Nashville, TN, (4)University of Miami, Coral Gables, FL

149 124.149 Patterns of Repetitive Behavior with Objects in Infants Developing ASD M. Miller[1], G. S. Young[2], A. Belding[3], A. M. Hill[1], A. Tubbs[1] and S. Ozonoff[4], (1)UC Davis MIND Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (3)Psychiatry, UC Davis MIND Institute, Sacramento, CA, (4)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA

150 124.150 Perception of Biological Motion and Integration of Audio-Visual Stimuli in Infants at Risk for Autism H. S. Reuman[1], R. Tillman[2], T. Kim[3], E. J. Levy[1], K. Law[1], A. Naples[1], K. K. Stavropoulos[1], A. T. Odonkor[3], S. H. Kim[1], E. Schoen Simmons[1], K. K. Powell[1], S. Macari[4], F. Shic[1,4], K. Chawarska[4] and J. C. McPartland[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Clinical Psychology, University of Maryland, College Park, MD, (3)Yale University, New Haven, CT, (4)Child Study Center, Yale University School of Medicine, New Haven, CT

151 124.151 Predictors of Functioning in Preschool and School Age Children with ASD M. C. Lyons[1], R. Paul[2], K. D. Tsatsanis[3] and F. Shic[4], (1)Yale University, New Haven, CT, (2)Sacred Heart University, Fairfield, CT, (3)Child Study Center, Yale University School of Medicine, New Haven, CT, (4)Child Study Center, Yale University, New Haven, CT

152 124.152 Reduced Attention to Fearful Faces in 10 Month Old Infants at Risk for Autism J. L. Kleberg[1], P. Nyström[1], G. Gredebäck[1], S. Bolte[2,3] and T. Falck-Ytter[1,4], (1)Department of Psychology, Uppsala University, Uppsala, Sweden, (2)Division of Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden, (3)Center of neurodevelopmental disorders, Karolinska Institutet, Stockholm, Sweden, (4)Dept. of Women's & Children's Health, Karolinska Institute, Stockholm, Sweden

153 124.153 Referral Patterns and Early Signs of Possible ASD Among Children Referred for Generic Developmental Early Intervention N. Rasuratnam[1], M. Penner[2], C. Saul[3], J. A. Brian[4], L. Vismara[5] and W. Roberts[1], (1)Integrated Services for Autism and Neurodevelopmental Disorders, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)York Region Early Intervention Services, Newmarket, ON, Canada, (4)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (5) Department of Psychology, York University, Toronto, ON, Canada

154 124.154 Response to Name: Increasing the Sensitivity of This Very Specific Sign of ASD J. Miller[1], J. Shamash[2], J. E. Norry[3] and T. P. Gabrielsen[4], (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadlephia, Philadelphia, PA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)CPSE, Brigham Young University, Provo, UT

155 124.155 Sensory Responsiveness in Infants at-Risk for Autism Spectrum Disorders within the First Two Years of Life M. Kaur[1], S. Srinivasan[1] and A. N. Bhat[1,2,3], (1)Department of Physical Therapy, University of Delaware, Newark, DE, (2)Department of Kinesiology, University of Connecticut, Storrs, CT, (3)Center for Health, Intervention & Prevention, Department of Psychology, University of Connecticut, Storrs, CT

156 124.156 Sex Differences Do Not Distinguish High-Risk ASD, High-Risk No ASD, and Low-Risk Children through Three Years: A Bsrc Study D. S. Messinger[1], G. S. Young[2], S. J. Webb[3], S. Ozonoff[4], L. Zwaigenbaum[5], K. Chawarska[6], R. J. Landa[7], K. R. Dobkins[8], W. L. Stone[9], A. Klin[10], M. C. Lai[11], S. Baron-Cohen[12] and A. S. Carter[13], (1)University of Miami, Coral Gables, FL, (2)MIND Institute, University California Davis, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (4)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (5)University of Alberta, Edmonton, AB, Canada, (6)Child Study Center, Yale University School of Medicine, New Haven, CT, (7)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (8)Psychology, University of California, San Diego, La Jolla, CA, (9)Psychology, University of Washington, Seattle, WA, (10)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (11)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (12)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (13)Department of Psychology, University of Massachusetts Boston, Boston, MA

157 124.157 Sex Differences in Adaptive Skill Trajectories from 12 to 36 Months in Infants at High and Low Risk for ASD T. Hutman, L. Gomez, B. E. McCarthy and M. Del Rosario, Psychiatry & Biobehavioral Sciences, UCLA, Los Angeles, CA

158 124.158 Sex Differences in Visual Attention to the Mouth in Infancy: Implications for Language Development and ASD R. Burger-Caplan[1,2], W. Jones[1] and A. Klin[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Psychology, Emory University, Atlanta, GA

159 124.159 Sex and ASD Risk Status Predict Both 3-Year Expressive Language and Expressive Language Growth from 1 to 3 Years in Children at High and Low Risk for ASD S. R. Edmunds[1], L. V. Ibanez[2], C. Harker[2], E. A. Karp[3] and W. L. Stone[3], (1)UW Mailbox 357920, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Psychology, University of Washington, Seattle, WA

160 124.160 Stability of Temperament in Toddlers with Autism Spectrum Disorders S. S. Lansiquot[1], L. Flink[1], C. A. Wall[2], S. H. Kim[2], F. Shic[1], J. Koller[3], K. Chawarska[1] and S. Macari[1], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)The School of Education, The Hebrew University of Jerusalem, Jerusalem, Israel

161 124.161 Temperamental Features in Toddlers with ASD Are Independent of Symptom Severity L. Flink[1], S. S. Lansiquot[1], C. A. Wall[2], S. H. Kim[2], F. Shic[1], J. Koller[3], K. Chawarska[1] and S. Macari[1], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)The School of Education, The Hebrew University of Jerusalem, Jerusalem, Israel

162 124.162 The Role of Audiovisual Synchrony in Modulating Attention to Biological Motion in Infancy R. D. Sifre[1], W. Jones[2], A. Klin[2] and S. Shultz[3], (1)Marcus Autism Center, Emory University School of Medicine, Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (3)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

163 124.163 The Role of Early Gesture on Expressive and Receptive Vocabulary in Infants at High and Low Risk for Autism Spectrum Disorder S. R. Edmunds[1], L. V. Ibanez[2] and W. L. Stone[3], (1)UW Mailbox 357920, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Psychology, University of Washington, Seattle, WA

164 124.164 Visual Attention Patterns of Toddlers with ASD: Comparison of Performance on the Visual Exploration Task (VET) and the VET-Toddler S. Zheng[1], L. Turner-Brown[2], K. Hume[3] and B. A. Boyd[4], (1)School of Education, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel HIll, Chapel Hill, NC, (4)Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

165 124.165 Visual-Motor Integration Associated with Familial Liability for Autism M. B. Nebel[1,2], J. L. Haworth[3,4], C. Hess[3], S. H. Mostofsky[1,2,4] and R. J. Landa[3,4], (1)Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, (2)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (3)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (4)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD

166 124.166 When an Early Diagnosis of ASD Resolves, What Remains? L. H. Shulman[1,2], E. D'Agostino[1], M. D. Valicenti-McDermott[1,2], R. M. Seijo[1,2], E. Tulloch[1,2], D. J. Meringolo[1,2], N. L. Tarshis[1,2] and S. J. Lee[1], (1)Pediatrics/CERC, Albert Einstein College of Medicine, Bronx, NY, (2)Children's Hospital at Montefiore, Bronx, NY

Poster Session
125 - Genetics
5:30 PM - 7:00 PM - Imperial Ballroom

167 125.167 A Comparison of Gene Expression in Inflamed Ileocolonic Tissue and Peripheral Blood from GI Symptomatic ASD Children S. J. Walker[1] and A. Krigsman[2], (1)Wake Forest Health Sciences, Winston-Salem, NC, (2)Pediatric Gastroenterology Resources of New York and Texas, Far Rockaway, NY

168 125.168 A Comprehensive Meta-Analysis of Common Genetic Variants in Autism Spectrum Conditions V. Warrier[1], V. Chee[2], P. L. Smith[3], B. Chakrabarti[4] and S. Baron-Cohen[5], (1)University of Cambridge, Cambridge, England, United Kingdom, (2)Autism Research Centre, Cambridge, United Kingdom, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (4)Centre for Integrative Neuroscience and Neurodynamics, School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (5)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

169 125.169 A Genetic Multi-Mutation Model of Autism Spectrum Disorder I. Kramer[1], A. R. Marvin[2], P. H. Lipkin[3], J. K. Law[4] and P. A. Law[5,6], (1)Physics Department, University of Maryland Baltimore Country, Baltimore, MD, (2)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (3)Pediatrics/Neurology and Developmental Medicine, Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD, (4)Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, (5)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6)School of Medicine, Congo Protestant University, Kinshasa, Congo-Kinshasa

170 125.170 A Peripheral Blood-Based Biomarker for Gastrointestinal Inflammation in ASD GI-Symptomatic Children S. J. Walker[1] and A. Krigsman[2], (1)Neuroscience Graduate Program, Wake Forest University Health Sciences, Winston-Salem, NC, (2)Pediatric Gastroenterology Resources of New York and Texas, Far Rockaway, NY

171 125.171 Advances in the Genetics of Dup15q Syndrome: Insights Gained from Induced Pluripotent Stem Cells S. Chamberlain, Genetics and Developmental Biology, University of Connecticut, Farmington, CT

172 ▸ 125.172 Analysis of Genomic Copy Number Variations and Exome Sequencing in Japanese Autism Spectrum Disorder Subjects K. Nakamura[1], I. Thanseem[2], N. Mori[2], M. Tsujii[3] and N. Matsumoto[4], (1)Department of Neuropsychiatry, Graduate School of Medicine, Hirosaki University, Hirosaki, Japan, (2)Department of Psychiatry, Hamamatsu University School of Medicine, Shizuoka, Japan, (3)Chukyo Univesity, Toyota, Japan, (4)Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

173 125.173 Autism Traits in Extended Family Members
M. L. Cuccaro[1,2], N. D. Dueker[2], J. M. Lee[2], J. R. Gilbert[2], E. R. Martin[2] and M. A. Pericak-Vance[2], (1)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, (2)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL

174 125.174 Autism-Risk, Schizophrenia-Risk, and Central Nervous System-Related Genes Display Genomic Features Common to Genes of Developmental Regulation E. L. Casanova[1], A. E. Switala[2] and M. F. Casanova[3], (1)University of Louisville, Louisville, KY, (2)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (3)Psychiatry and Behavioral Science, University of Louisville, Louisville, KY

175 125.175 Characterization of Gene Variants Involved in Synaptic Pathways in Extended Utah ASD Pedigrees K. Ramachandran[1], T. M. Darlington[2], D. A. Bilder[2], J. Mollah[1], M. Williams[3], A. Shcheglovitov[3], G. Schellenberg[4], K. Filbrandt[1], D. H. Coon[2], (1)Biomedical Informatics, University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT, (3)Neurobiology & Anatomy, University of Utah, Salt Lake City, UT, (4)Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, PA

WITHDRAWN

176 125.176 Characterization of Neuronal Development in Autism Using iPSCs Reveals Disease-Specific Changes in Axon Formation and Expression of Synaptic Function Genes D. M. Dykxhoorn[1,2], B. A. DeRosa[1], H. N. Cukier[1,2], K. C. Belle[1], J. M. Lee[2], M. L. Cuccaro[1,2], J. M. Vance[1,2] and M. A. Pericak-Vance[1,2], (1)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, (2)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL

177 125.177 Chromosomal Microarray Results and Medical Management for Children with Autism Spectrum Disorder and Other Developmental Conditions K. S. Ho, R. J. Vanzo, A. Peiffer and C. H. Hensel, Lineagen, Inc., Salt Lake City, UT

178 125.178 Circadian Network and Autism: Unusual Alternative Splicing Pattern of the JARID1 Genes Z. Talebizadeh[1], A. Shah[1] and L. DiTacchio[2], (1)Children's Mercy Hospital, Kansas City, MO, (2)University of Kansas Medical Center, Kansas City, KS

179 125.179 Common Autism Genetic Polymorphisms Hidden in HLA and KIR Genes A. Torres[1], M. Benson[2], P. L. Bray-Ward[1], D. C. Ward[1] and R. Johnson[3], (1)Center for Persons with Disabilities, Utah State University, Logan, UT, (2)Research and Evaluation, Utah State University; CPD, Logan, UT, (3)BSP CCR Genetics Core at Frederick National Laboratory, Leidos Biomedical Research, Inc., Frederick, MD

180 125.180 Contribution of Small Copy Number Variations (CNVs) to Autism Spectrum Disorder (ASD) I. M. W. Silva[1], E. S. Moreira[1], N. C. V. Lourenço[2], A. L. Bossolani-Martins[3], M. Lazar[4], K. M. Rocha[4], M. Aguena[4], D. S. Marco Antonio[1], A. C. Fett-Conte[5], C. Rosenberg[6], E. Vadasz[7] and M. R. Passos- Bueno[8], (1)Department of Genetics and Evolutionary Biology, University of Sao Paulo, Sao Paulo, Brazil, (2)University of Sao Paulo - USP, Sao Paulo, Brazil, (3)Federal University of Mato Grosso do Sul, Mato Grosso do Sul, Brazil, (4)University of Sao Paulo, Sao Paulo, Brazil, (5)School of Medicine in São Jose do Rio Preto- FAMERP, Sao Jose do Rio Preto, Brazil, (6)Department of Genetics and Evolutionary Biology, University Sao Paulo, Biosciences Institute, Sao Paulo, Brazil, (7)university of sao paulo-institute of psychiatry, Sao Paulo, Brazil, (8)Department of Genetics and Evolutionary Biology, University of Sao Paulo - USP, Sao Paulo, Brazil

181 125.181 Differences in Small Non-Coding RNA Expression in Primary Auditory and Temporal Lobe Association Cortex May Have Effects on Cell Cycle, Immune and Other Pathways in Autism Spectrum Disorders B. P. Ander[1], N. Barger[2], B. Stamova[3], F. R. Sharp[3] and C. M. Schumann[2], (1)Neurology, UC Davis MIND Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (3)MIND Institute and Department of Neurology, University of California Davis Medical Center, Sacramento, CA

182 125.182 Distribution and Mutational Specificity of Autistic Trait Severity in Neurofibromatosis Type 1 (NF1) J. N. Constantino[1], Y. Zhang[2], S. Sant[2], K. Long[3], L. Malik[4] and D. H. Gutmann[5], (1)Washington University School of Medicine, Saint Louis, MO, (2)Psychiatry, Washington University School of Medicine, Saint Louis, MO, (3)Psychiatry, Washington University in St Louis, St. Louis, MO, (4)Psychiatry, Washington University School of Medicine, st louis, MO, (5)Neurology, Washington University in St Louis, St Louis, MO

183 125.183 Do Parental Medical and Psychiatric Conditions Have Sex-Differential Risk Effects for Autism? M. C. Lai[1,2], A. L. Pohl[3], M. Whitehall[1] and S. Baron-Cohen[1,4], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)CLASS Clinic, Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom

184 125.184 Documentation of HLA-DRB1*1302 As a Maternal Prenatal Risk Factor for Autism Using Imputation in a Maternal-Fetal Incompatibility Model W. G. Johnson[1], E. S. Stenroos[2] and S. Buyske[3], (1)661 Hoes Lane, Rutgers University, Piscataway, NJ, (2)Neurology, Rutgers University - Robert Wood Johnson Medial School, Piscataway, NJ, (3)Statistics and Biostatistics, Rutgers University, Piscataway, NJ

185 125.185 Dysregulation of Regulatory Small Non-Coding RNAs in the Superior Temporal Gyrus Brain Region of Autism Spectrum Disorders B. Stamova[1], B. P. Ander[1], N. Barger[2], F. R. Sharp[3] and C. M. Schumann[2], (1)Neurology, UC Davis MIND Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (3)MIND Institute and Department of Neurology, University of California Davis Medical Center, Sacramento, CA

186 125.186 Exploring Non-Coding Regulatory SNPs As Genetic Markers for Autism Spectrum Disorders L. Peixoto[1], S. Poplawski[1], C. Kao[2], H. Hakonarson[2], R. T. Schultz[3] and T. Abel[1], (1)University of Pennsylvania, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

187 125.187 Genetic Variation in Melatonin Pathway Enzymes in Children with Autism Spectrum Disorder and Comorbid Sleep Onset Delay O. J. Veatch[1], J. S. Pendergast[1], R. M. Leu[2], C. H. Johnson[1], S. H. Elsea[3] and B. A. Malow[4], (1)Vanderbilt University, Nashville, TN, (2)Pediatrics, Emory University, Atlanta, GA, (3)Baylor College of Medicine, Houston, TX, (4)Vanderbilt Kennedy Center, Vanderbilt University Medical Center, Nashville, TN

188 125.188 Homozygous Deletions of Non-Coding Transcriptional Control Sites Leads to Autism Spectrum Disorder K. Schmitz-Abe, Boston Children's Hospital, Boston, MA

189 125.189 Identification of Gene-Environment Interactions Associated with Autism Spectrum Disorders C. Ladd-Acosta[1], B. Lee[2], B. Sheppard[3], N. B. Gidaya[4], L. A. Weiss[5], G. C. Windham[6], A. M. Reynolds[7], L. A. Croen[8], D. E. Schendel[9], C. J. Newschaffer[10] and M. D. Fallin[11], (1)Johns Hopkins University, Baltimore, MD, (2)Drexel University School of Public Health, Philadelphia, PA, (3)Johns Hopkins School of Public Health, Baltimore, MD, (4)Drexel University, Kennett Square, PA, (5)Psychiatry, University of California San Francisco, San Francisco, CA, (6)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (7)University of Colorado Denver, Aurora, CO, (8)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (9)University of Aarhus, Aarhus, Denmark, (10)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (11)Mental Health & Wendy Klag Center for Autism and Developmental Disabilities, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

190 125.190 Imaging Autism in Mouse and Man J. P. Lerch and J. Ellegood, Hospital for Sick Children, Toronto, ON, Canada

191 125.191 Integrating Analytical Methods to Identify Rare Variants Associated with ASD in High-Risk Utah Pedigrees T. M. Darlington[1], V. Rajamanickam[2], R. Sargent[2], A. V. Bakian[1], D. A. Bilder[1], G. Schellenberg[3], N. J. Camp[2] and H. Coon[1], (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)Genetic Epidemiology, University of Utah, Salt Lake City, UT, (3)Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, PA

192 ▸ 125.192 Intergenerational Patterns of Quantitative Autistic Traits in Hispanic Families A. Abbacchi[1], Y. Zhang[2], K. A. Zambrana[3], D. S. Messinger[4] and J. N. Constantino[5], (1)Washington University School of Medicine, St. Louis, MO, (2)Psychiatry, Washington University School of Medicine, Saint Louis, MO, (3)Department of Psychology, University of Miami, Coral Gables, FL, (4)University of Miami, Coral Gables, FL, (5)Washington University School of Medicine, Saint Louis, MO

193 125.193 Investigation of Parent-of-Origin Effects in Autism Spectrum Disorders S. Connolly[1], R. J. Anney[2], L. Gallagher[2] and E. A. Heron[1], (1)Psychiatry, Trinity College Dublin, Dublin, Ireland, (2)Trinity College Dublin, Dublin, Ireland

194 125.194 Linkage Analysis of Whole Exome Sequence Data in Multiplex Autism Families Including Cholesterol Covariates C. L. Simpson[1], Y. Kim[1], C. A. Wassif[2], J. Mullikin[3], E. Tierney[4], F. D. Porter[2] and J. E. Bailey-Wilson[1], (1)Computational and Statistical Genomics Branch, National Human Genome Research Institute, National Institutes of Health, Baltimore, MD, (2)Section on Molecular Dysmorphology, National Institute of Child Health, National Institutes of Health, Bethesda, MD, (3)NIH Intramural Sequencing Center, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, (4)Kennedy Krieger Institute, Baltimore, MD

195 125.195 Modulating RBFOX1 Expression in Human Stem Cell-Derived Glutamatergic Neurons H. N. Cukier[1], B. A. DeRosa[1,2], K. C. Belle[1,2], Y. Park[1,2], A. J. Griswold[1], J. M. Lee[1], J. L. Haines[3], M. L. Cuccaro[1,2], J. R. Gilbert[1,2], D. M. Dykxhoorn[1,2] and M. A. Pericak-Vance[1,2], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, (3)Department of Epidemiology and Biostatistics, Case Western Reserve University, Cleveland, OH

196 125.196 Mutation Characteristics in Families with Two or More Siblings with Autism Spectrum Disorder S. W. Scherer, Hospital for Sick Children, University of Toronto, Toronto, ON, Canada

197 125.197 PTEN Mutation in Children with Autism and Macrocephaly: A Case Report of Two Previously Unrecognized Promoter Region Mutations D. U. Menon, Kennedy Krieger Institute, Baltimore, MD

198 125.198 Penetrance and Specificity of Significant Chromatin Pathway Sequence Risk Variants in Utah Extended ASD Pedigrees L. Jiang[1], T. M. Darlington[2], A. V. Bakian[1], J. Morgan[2], G. Schellenberg[3], K. Eilbeck[1] and H. Coon[2], (1)Biomedical Informatics, University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT, (3)Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, PA

199 125.199 Province of Ontario Neurodevelopmental Disorders Network: Integrated Discovery from Genes to Treatment E. Anagnostou[1], J. P. Lerch[2], S. W. Scherer[3], P. Szatmari[4], R. Nicolson[5], R. Schachar[6], P. D. Arnold[7] and R. Weksberg[8], (1)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Medical Biophysics, University of Toronto, Toronto, ON, Canada, (3)Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)Psychiatry, Western University, London, ON, Canada, (6)Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada, (7)Psychiatry, Hospital for Sick Children, Toronto, ON, Canada, (8)Dept. of Paediatrics and the Institute of Medical Science, University of Toronto, Toronto, ON, Canada

200 125.200 Quantification of FMRP in Human and Mouse Tissues By Capture Immunoassays W. T. Brown[1], T. Adayev[2], C. Dobkin[3], R. J. Kascsak[4], R. Kascsak[4], S. Nolin[1] and G. LaFauci[2], (1)Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Developmental Biochemistry, Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Institute for Basic Research in Developmental DIsabilities, Staten Island, NY, (4)Monoclonal Antibody Facility, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY

201 125.201 Recurrence Rates for Autism in Multiplex Families and Twins Demonstrate Sex Differences in Familial Genetic Liability D. M. Werling[1] and D. H. Geschwind[2], (1)Psychiatry, UCSF, San Francisco, CA, (2)Department of Neurology, David Geffen School of Medicine, UCLA, Los Angeles, CA

202 125.202 Scalable Sequencing Pipeline on Cloud J. Y. Jung[1,2], A. Lancaster[1,2], Y. Souilmi[1], P. J. Tonellato[1] and D. Wall[2], (1)Center for Biomedical Informatics, Harvard Medical School, Boston, MA, (2)Stanford University, Palo Alto, CA

203 125.203 Sleep Problem Profiles of Individuals with ASD-Associated Mutations R. K. Earl[1], C. M. Hudac[1], T. Ward[2], J. Gerdts[1], E. E. Eichler[3] and R. Bernier[1], (1)University of Washington, Seattle, WA, (2)Clinical Psychology, Seattle Pacific University, Seattle, WA, (3)Howard Hughes Medical Institute, Seattle, WA

204 125.204 Social Communication Skills and Impairments in Children with Dup15q Syndrome: Is There a Distinctive Phenotype That May Inform Intervention Targets? S. S. Jeste[1], A. Gulsrud[1] and C. Kasari[2], (1)UCLA, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA

205 125.205 Social-Communication and Restricted and Repetitive Behavior (RRB) Profiles in Children with Phelan-Mcdermid Syndrome Compared to Non-Syndromic Autism Spectrum Disorder (ASD) L. V. Soorya[1], C. Farmer[2], L. Bush[3], S. Youngkin[1], A. Kolevzon[4] and A. Thurm[5], (1)Psychiatry, Rush University Medical Center, Chicago, IL, (2)NIH, Bethesda, MD, (3)Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, (4)Pediatrics, Icahn School of Medicine at Mount Sinai, New York, NY, (5)Pediatrics & Developmental Neuroscience, National Institute of Mental Health, Bethesda, MD

206 125.206 Strategies for Detecting Increased ASD Risk in Male and Female Probands S. J. Sanders, UCSF, San Francisco, CA

207 125.207 Systems Biology Approaches to Determine Genetic Risk Factors for Autism Spectrum Disorders A. Yousaf[1], R. Waltes[1], D. Haslinger[1], S. M. Klauck[2], M. Sachse[1], A. Voran[3], M. Schaefer[4], M. Schulte-Rüther[5], S. Chichon[6], M. Noethen[6], J. Ackermann[7], I. Koch[7], C. M. Freitag[1] and A. G. Chiocchetti[1], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University, Frankfurt a. M., Germany, (2)Cancer Genome Research Group, German Cancer Research Center (DKFZ), Heidelberg, Germany, (3)Department of Child and Adolescent Psychiatry, Saarland University, Homburg, Germany, (4)Department of Child and Adolescent Psychiatry, Psychotherapy, and Psychosomatics, University Medical Center Freiburg, University Medical Centre Freiburg, Freiburg, Germany, (5)University Hospital Aachen (UKA), Aachen, Germany, (6)Institute of Human Genetics, University of Bonn, Germany., Bonn, Germany, (7)Molecular Bioinformatics, Institute of Computer Science, Goethe-University Frankfurt am Main, Frankfurt, Germany

208 125.208 Systems Biology of Late-Onset Severe Regressive Autism A. R. Gupta, Yale University School of Medicine, New Haven, CT

209 125.209 Targeted Behavioral Intervention for Children with Dup15q Syndrome Focuses on Language and Joint Attention C. DiStefano[1] and C. Kasari[2], (1)Center for Autism Research and Treatment, University of California, Los Angeles, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA

210 125.210 The Language Phenotype of the 16p11.2 Deletion and Duplication in Children with and without Autism Spectrum Disorders (ASD): The Svip Study S. H. Kim[1], C. Lord[2], L. Green-Snyder[3], R. Bernier[4], W. Chung[5], E. Hanson[6] and R. P. Goin-Kochel[7], (1)40 Temple St., Suite 7D, Yale University School of Medicine, New Haven, CT, (2)Weill Cornell Medical College, White Plains, NY, (3)Boston Children's Hospital, Boston, MA, (4)University of Washington, Seattle, WA, (5)Pediatrics and Medicine, Columbia University Medical Center, New York, NY, (6)Developmental Medicine, Boston Children's Hospital, Boston, MA, (7)Autism Center, Texas Children's Hospital, Houston, TX

211 125.211 Tissue-Specific Expression Quantitative Trait Loci (eQTL) in GI Symptomatic ASD Children S. J. Walker[1,2,3], A. Krigsman[4] and C. D. Langefeld[1,2], (1)Wake Forest Health Sciences, Winston Salem, NC, (2)Center for Public Health Genomics and Department of Biostatistical Sciences, Winston Salem, NC, (3)Wake Forest Institute for Regenerative Medicine, Winston Salem, NC, (4)Pediatric Gastroenterology Resources of New York and Texas, Far Rockaway, NY

212 125.212 Use of Blood Transcriptomes to Characterize ASD Phenotypes B. Stamova[1], Y. Tian[1], C. W. Nordahl[2], M. D. Shen[2], S. J. Rogers[2], D. G. Amaral[2] and F. R. Sharp[1], (1)MIND Institute and Department of Neurology, University of California Davis Medical Center, Sacramento, CA, (2)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA

213 125.213 Use of a Quantitative Autism Score (QAS) Reveals Genetic Associations E. R. Martin[1,2], N. D. Dueker[1], A. J. Griswold[1], H. N. Cukier[1], D. Van Booven[1], J. M. Lee[1], P. L. Whitehead[1], J. R. Gilbert[1,2], J. L. Haines[3], J. P. Hussman[4], M. L. Cuccaro[1,2] and M. A. Pericak-Vance[1,2], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, (3)Case Western, Cleveland, OH, (4)Hussman Institute for Autism, Baltimore, MD

Poster Session
126 - Other
5:30 PM - 7:00 PM - Imperial Ballroom

214 126.214 Locomotor, Anxiety, and Risk Assessment Related Phenotyping and Striatal Transcriptome Analysis in Four Autism Mouse Models E. Elliott and O. Oron, Faculty of Medicine, Bar Ilan University, Safed, Israel

215 126.215 Extracellular Signal Related Kinase Activation in Autistic Disorder C. Erickson[1], L. K. Wink[1], E. V. Pedapati[1], T. L. Schaefer[1], R. Shaffer[1], B. Bayon[2], B. Ray[2] and D. K. Lahiri[3], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Indiana University School of Medicine, Indianapolis, IN, (3)Psychiatry and Molecular Genetics, Indiana University School of Medicine, Indianapolis, IN

Special Interest Groups (SIGs)

Friday, May 15, 2015: 7:15 AM - 8:45 AM
Location listed under each session

127 - Creating Patient-Centric Information Commons for Autism Research

Room: Envoy

Session Chairs: Isaac Kohane and Megan O'Boyle

Presenters: Geraldine Bliss, Megan O'Boyle, Paul Avillach and Isaac Kohane

Phelan McDermid Foundation http://22q13.org
Center of Biomedical Informatics at Harvard Medical School https://cbmi.med.harvard.edu

Analysis of large-scale systems of biomedical data provides a perspective on neuropsychiatric disease that may be otherwise elusive. An analysis of large-scale systems of data from autism spectrum disorder (ASD) and of ASD research as an exemplar of what might be achieved from study of such data. Those with experience in creating large data sets from multiple, heterogeneous sources with wide heterogeneity in both the 'big'ness of the data in bandwidth/storage as well as complexity will recognize that finding the right data and matching it up correctly to the right individual across these sources is so fraught with difficulty that it has contributed to the substantive shortfall if not outright failure of both large scale national population-scale efforts and local single institution/single population studies. As a result there is no widely available implementation of a framework to support a clinical information commons. We have had some success at the national and international multi-institutional level.

Without getting this right, the core of the Precision Medicine agenda—linking data to specific patients/subjects—is at risk. As an example, the emerging use of electronic health record systems and other large clinical databases that allow the data acquired during the course of care to be used to identify distinct subpopulations, clinical trajectories, and pathophysiological substructures of ASD.

128 - Anxiety in Autism: Mechanisms, Measurement, and Treatment

Room: Savoy

Session Chairs: Mikle South, Amy Van Hecke, Alana McVey

Symptoms of anxiety significantly increase individual impairment and the burden of care on families and communities. We have organized our meeting around three broad topics of a) basic research including physiology and imaging; b) measurement groups including international collaborations to review existing instruments and those in progress; c) clinical treatment groups including both behavioral and medication treatments. Smaller groups will meet for a short time to identify priorities and mechanisms for future collaboration then present findings to the whole group for discussion. Graduate student Alana McVey will work as a liaison for matching student and group member interests within the SIG and discuss issues and career opportunities in this area.

129 - Minimally Verbal Individuals

Room: Murano

Session Chairs: Nancy Jones, Terry Katz, Connie Kasari

The goal of the 2015 SIG is continue work to develop practice parameters and to improve ways to evaluate minimally verbal individuals (MVI) in the areas of: characterization, intervention, developmental considerations and underserved populations. Leaders will organize project teams with mentors partnered with junior faculty and student members.
The objectives for 2015 build on the discussions and objectives outlined by each workgroup at the last meeting:

- Each working group leader will provide a brief update of discussion and activities since IMFAR 2014
- Depending on state of the literature for each workgroup's topic, they will:
  - Work on developing proposals for research projects that will address the critical information gaps
  - Work on outlining and drafting one or two specific practice parameters

Following this year's SIG, our aim would be for groups to submit the research proposals for funding, or publish an article on information gaps or the practice parameter as applicable.

130 - Multiple-Risk Factors for ASD: Genetic Predisposition and Environmental Influences

Room: Grand Salon

Session Chairs: Heather Volk and Gayle Windham

While increasingly accepted that ASD arises from complex interactions of genetic and environmental factors (GxE), investigations of joint effects and evaluation of underlying mechanisms are limited. The goal of this SIG is to bring together researchers from multiple disciplines to overcome barriers and brainstorm strategies to facilitate collaboration and research progress in this complex field. To identify and address challenges in this area, the 2015 session will use relevant materials from GxE workshops held to address other diseases and discuss how to apply them to ASD, establishing a common language for interdisciplinary collaboration. Further, we will briefly review existing evidence for GxE in autism etiology through short presentations from experts with experience in structural and functional genetic data, epigenetics, and environmental epidemiology to be followed by group discussion, feedback, and networking.

Welcome Address and Sponsor Update

8:45 AM - Welcome from IMFAR Organizers
8:50 AM - Simons Foundation Update, Wendy Chung, M.D., Ph.D.
Grand Ballroom

Keynote Address
131 - Reflections on 50 years of ASD Early Intervention Science
9:00 AM - 10:00 AM - Grand Ballroom

Speaker: Sally J. Rogers, University of California at Davis, Sacramento, CA

In May of 1965, *Life Magazine* published a cover story on Ivar Lovaas's UCLA autism intervention study, bringing autism and the challenges it creates for children and families into the public eye for the first time. Fifty years later, early autism intervention is the topic of lawsuits, protests, and hope. The powerful effects of high quality intensive early intervention delivered in the first few years of life provide new insights into the multiple mechanisms underlying developmental and behavioral impairments associated with early ASD. This keynote will (1) describe and illustrate the kinds of gains that high quality intervention can facilitate, (2) identify treatment elements common to the most successful approaches, highlighting research from the Early Start Denver Model (Dawson and Rogers 2010), and (3) consider varying ways of conceptualizing treatment response.

Keynote Panel Session
132 - Responses to Early Intervention and Mechanisms of Change
10:30 AM - 12:30 PM - Grand Ballroom B

Session Chair: Sally J. Rogers, *University of California at Davis, Sacramento, CA*

Discussant: C. A. Nelson, *Harvard University Boston Children's Hospital, Boston, MA*

New studies of early intervention effects in ASD are being published monthly, with varying designs, methods, measures, and outcomes. There is growing acceptance of the ideas that (1) individual outcomes in autism reflect transactional processes among environmental and biological variables throughout life and (2) that developmental processes and rates may be particularly malleable in early childhood. There is increasing impetus among families and care professionals for early intervention research findings to be incorporated into an increased range, sophistication, and availability of services to young children and their families. However, this impetus is tempered by concerns about overemphasis on early childhood services, unreliability of early symptoms, difficulties with assessment processes, and lack of community services for early identification, diagnosis, and treatment. In order to guide public services and clinical practice, early intervention science must move more deeply into two areas (among many): (1) mechanisms by which specific intervention practices may be changing children's developmental trajectories or rates, (2) individual or subgroup patterns of response to specific interventions, and (3) variables that mediate and moderate intervention response. This international panel brings together a distinguished group of scientists involved in studying the processes and mechanisms involved in response to early interventions.

10:30 132.001 The Social Brain and Language Learning P. K. Kuhl, University of Washington, Seattle, WA

10:55 132.002 Studying Why and for Whom Intervention Works P. J. Yoder, Special Education, Vanderbilt University, Nashville, TN

11:20 132.003 Social Learning Processes Underlying Treatment-Related Changes in Children with ASD Receiving the Early Start Denver Model G. Vivanti, Olga Tennison Autism Research Centre, Melbourne, Australia

11:45 132.004 Early Interventions for Autism: Mechanism and Developmental Science J. Green[1], A. Pickles[2], H. McConachie[3], E. Jones[4], T. Gliga[5], T. Charman[6] and M. H. Johnson[5], (1)Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom, (2)Department of Biostatistics, King's College London, London, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Birkbeck College, University of London, London, United Kingdom, (5)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom, (6)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

12:10 Discussant

Panel Session
133 - EU-AIMS: Translating Cellular and Animal Models of Synaptic Gene Deficits to Large-Scale Clinical Studies
10:30 AM - 12:30 PM - Grand Ballroom A

Session Chair: E. Loth, *Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom*

Discussant: J. Buitelaar, *Department of General Psychiatry and Child and Adolescent Psychiatry, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands*

Autism spectrum disorders are one of the most common and severe neurodevelopmental disorders yet effective treatments for the core symptoms are still lacking. This is mainly due to a) the high clinical, etiological and genetic heterogeneity between affected individuals, b) restricted knowledge of the underpinning pathophysiological mechanism(s), and c) the absence of reliable biomarkers to identify more biologically homogeneous subgroups. This panel will present examples of the integrated translational approach adopted in EU-AIMS, a large-scale public-private partnership, to identify biomarkers and new treatment targets for ASD. First, we combine patient-derived pluripotent stem cells (Price) and animal models (Steckler) of monogenic forms of ASD to understand pathophysiological mechanisms. Here, we focus on genes affecting synapse development and function (SHANKs, neurexins, neuroligins) and their downstream effects on excitatory-inhibitory balance and brain connectivity. Next, we translate this to patients using methods such as MRS. Preliminary findings from a pharmacological study validate the Glutamate/ GABA system as a tractable treatment target. Finally, we carry out linked large-scale clinical studies spanning children and adults with ASD and patients with specific synaptic gene deficits to identify biomarkers (including markers of E/I imbalances) for patient stratification that can be used in future clinical trials.

10:30 133.001 Utility of Rodent Mutants with Altered Synaptic Signaling Pathways to Test Possible Pharmacological Interventions for ASD T. Steckler[1], S. Baudouin[2], T. M. Boeckers[3], F. Esclassan[4], G. Gilmour[5], G. Kumar[6], M. E. Modi[7], M. M. Petrinovic[8], J. Talpos[9] and P. Scheiffele[10], (1)Neuroscience Therapeutic Area, Janssen Research and Development, Johnson & Johnson, Beerse, Belgium, (2)Cardiff School of Biosciences, Cardiff, United Kingdom, (3)Institute for Anatomy and Cell Biology, Ulm University, Ulm, Germany, (4)Eli Lilly, Sunningdale, United Kingdom, (5)In Vivo Pharmacology, Eli Lilly, Sunningdale, United Kingdom, (6)Neurosciences, Janssen Pharmaceuticals, Beerse, Belgium, (7)Neuroscience, Pfizer, Cambridge, MA, (8)F. Hoffmann-La Roche, Basel, Switzerland, (9)Janssen Pharmaceuticals, Beerse, Belgium, (10)Biozentrum University of Basel, Basel, BS, Switzerland

10:55 133.002 Cellular Phenotypes in Induced Pluripotent Stem Cells from Autistic Individuals **J. Price**[1], G. Cocks[1], A. Kathuria[2], K. Warre-Cornish[1], R. Taylor[3] and L. Andreae[4], (1)Cells and Behaviour Unit, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)MRC Centre for Developmental Neurobiology, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)MRC Centre for Developmental Neurobiology, King's College London, London, United Kingdom

11:20 133.003 EU-AIMS Clinical Research Platform to Identify Biomarkers for Patient-Stratification **E. Loth**[1], D. G. Murphy[2], T. Banaschewski[3], S. Baron-Cohen[4], S. Bolte[5], T. Bourgeron[6], T. Charman[7], S. Durston[8], J. Horder[9], M. H. Johnson[10], E. Jones[11], L. Mason[11], L. O'Dwyer[12], A. M. M. Persico[13] and J. Buitelaar[12], (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (3)University of Heidelberg, Heidelberg, Germany, (4)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (5)Division of Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden, (6)Pasteur Institute, Paris Cedex 15, France, (7)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (8)Psychiatry, Brain Centre Rudolf Magnus, University Medical Center Utrecht, Utrecht, Netherlands, (9)De Crespigny Park, Institute of Psychiatry, King's College London, London, England, United Kingdom, (10)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom, (11)Birkbeck College, University of London, London, United Kingdom, (12)Department of General Psychiatry and Child and Adolescent Psychiatry, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (13)Child and Adolescent Neuropsychiatry Unit & Lab of Molecular Psychiatry and Neurogenics, Rome, Italy

11:45 133.004 Glutamate and GABA in Autism Spectrum: A Clinical in-Vivo Magnetic Resonance Spectroscopy Assay **L. A. Ajram**[1], J. Horder[2], M. A. Mendez[3], A. Galanopoulos[4], L. Brennan[5], R. Wichers[6], D. J. Lythgoe[7], S. C. Williams[8], D. G. Murphy[9] and G. M. McAlonan[9], (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Kings College London, London, United Kingdom, (2)De Crespigny Park, Institute of Psychiatry, King's College London, London, England, United Kingdom, (3)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (4)Behavioural and Developmental Clinical Academic Group, King's Health Partners, London, United Kingdom, (5)Institute of Psychiatry, Kings College London, London, United Kingdom, (6)Institute of Psychiatry, King's College London, London, United Kingdom, (7)King's College London, London, United Kingdom, (8)Neuroimaging, Centre for Neuroimaging Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (9)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

12:10 Discussant

Panel Session
134 - Factors Associated with Adult Outcomes for Individuals with ASD
10:30 AM - 12:30 PM - Grand Ballroom C

Session Chair: L. G. Klinger, *TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC*

Discussant: P. H. Bell, *Eden Autism Services, Princeton, NJ*

There is a growing literature documenting the social, employment, and mental health difficulties faced by adults with ASD. With the increasing rates of ASD diagnoses, the number of individuals with ASD entering adulthood each year will double over the next 6 years. While we know that employment rates are extremely low, little research has examined what factors are related to positive adult outcome. The talks in this panel describe the results of four separate large-scale studies focused on identifying factors that affect adult outcome. The presentations incorporate a range of methodologies including a long term follow up study from childhood, two prospective studies from adolescence into adulthood, and a high school employment intervention program. Further, the presentations incorporate a variety of adult outcome measures including employment, adaptive behavior, social connectedness, mental health, motor skills, and quality of life. Across these studies, the importance of several childhood and adolescent factors emerges and potential intervention targets are identified. Each presentation will address implications for promoting positive adult outcomes.

10:30 134.001 Correlates of Middle Adult Outcome: A Follow-up Study of Children Diagnosed with ASD from 1970-1999 **L. G. Klinger**[1], M. R. Klinger[2], J. L. Mussey[1], S. P. Thomas[2] and P. S. Powell[3], (1)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (2)Allied Health Sciences, University of North Carolina, Chapel Hill, NC, (3)Psychology, University of North Carolina, Chapel Hill, NC

10:55 134.002 Longitudinal Development of Manual Motor Performance in Autism Spectrum Disorder from Childhood to Mid-Adulthood and Predictions of Adaptive Daily Living Skills **B. G. Travers**[1], E. D. Bigler[2], M. D. Prigge[3], A. Froehlich[4], N. Lange[5], A. Alexander[6] and J. E. Lainhart[7], (1)Kinesiology, Program of Occupational Therapy, Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)Psychiatry, University of Utah, Salt Lake City, UT, (3)Pediatrics, University of Utah, Salt Lake City, UT, (4)University of Utah, Salt Lake City, UT, (5)McLean Hospital, Belmont, MA, (6)Waisman Center, University of Wisconsin-Madison, Madison, WI, (7)Psychiatry, Waisman Center, University of Wisconsin-Madison, Madison, WI

11:20 134.003 Disconnection from Postsecondary Education and Employment Among Young Adults on the Autism Spectrum **P. T. Shattuck**, A. M. Roux, J. Rast and J. Rava, AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

11:45 134.004 Evaluating the Effectiveness of Project Search to Support Employment for Young Adults with Autism Spectrum Disorder **M. R. Klinger**[1], A. W. Duncan[2], L. G. Klinger[3], M. M. Daston[4] and E. Riehle[5], (1)Allied Health Sciences, University of North Carolina, Chapel Hill, NC, (2)Div of Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (4)Project SEARCH, Cincinnati Children's Hospital, Cincinnati, OH, (5)Cincinnati Children's Hospital, Cincinnati, OH

12:10 Discussant

Panel Session
135 - From Genomic Discovery to Genetically Defined Autism Subtypes
10:30 AM - 12:30 PM - Grand Ballroom D

Session Chair: B. J. O'Roak, *Oregon Health & Science University, Portland, OR*

Discovering the genetic basis of idiopathic autism spectrum disorder has been challenging. Recently, new genomic approaches leveraging exome sequencing have identified large numbers of new candidate genes based on new or "de novo" mutations in families with a single affected child, so called simplex families. Even with the likelihood of hundreds of genes involved, many genes are now moving beyond candidates to bona fide risk factors for autism. Detailed analysis of genetically defined autism subtypes may revolutionize our understanding of the disorder and provide significant targets for interventions. In this session, the results of the complete sequencing of the Simons Simplex Collection, ~2,500 families will be presented. The roles of different mutation types and classes of genes will be addressed, as well as how roles may differ in boys and girls with autism. We will also explore how novel biomolecular modules relevant to autism are being discovered using emerging data from the developing brain and new computational approaches. These potentially link many risk genes together into common pathways. Finally, the session will end with detailed discussions of two new genetically defined autism subtypes, unexpected clinical associations, and rationale for moving forward with this genotype first approach.

10:30 135.001 Defining the Contribution of Different Classes of De Novo Mutation to Autism I. Iossifov[1], B. J. O'Roak[2], S. J. Sanders[3], M. Ronemus[4], N. Krumm[5], D. Levy[4], J. Shendure[6], E. E. Eichler[7], M. W. State[3] and M. Wigler[4], (1)Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, (2)Oregon Health & Science University, Portland, OR, (3)Psychiatry, UCSF, San Francisco, CA, (4)CSHL, Cold Spring Harbor, NY, (5)University of Washington, Seattle, WA, (6)Department of Genome Sciences, University of Washington, Seattle, WA, (7)Howard Hughes Medical Institute, Seattle, WA

11:00 135.002 The Discovery of Gene Modules for Autism Utilizing Co-Expression and PPI Networks F. Hormozdiari[1], O. Penn[1], E. Borenstein[1] and E. E. Eichler[2], (1)University of Washington, Seattle, WA, (2)Howard Hughes Medical Institute, Seattle, WA

11:30 135.003 Disruptive CHD8 Mutations Define a Subtype of Autism Early in Development R. Bernier[1], H. A. Stessman[2], B. Coe[1], J. Gerdts[1], B. J. O'Roak[3] and E. E. Eichler[4], (1)University of Washington, Seattle, WA, (2)Genome Sciences, University of Washington, Seattle, WA, (3)Oregon Health & Science University, Portland, OR, (4)Howard Hughes Medical Institute, Seattle, WA

12:00 135.004 The Transcriptional Regulator Adnp Links the Nbaf(mSWI/SNF) Complexes with Autism F. Kooy[1], G. Vandeweyer[1], C. Helsmoortel[1], A. Van Dijck[1], C. Romano[2], B. de Vries[3], E. E. Eichler[4] and N. Van der Aa[1], (1)University of Antwerp, Antwerp, Belgium, (2)Oasi Institute, Troina, Italy, (3)Radboud Universtiy Medical Center, Nijmegen, Netherlands, (4)Howard Hughes Medical Institute, Seattle, WA

Panel Session
136 - Co-Occurring Psychiatric Disorders and the Lifecourse in ASD: Clinical and Epidemiological Perspectives
10:30 AM - 12:30 PM - Grand Salon

Session Chair: C. M. Kerns, *Drexel University, Philadelphia, PA*

Discussant: B. Lee, *Drexel University School of Public Health, Philadelphia, PA*

There is a growing body of evidence that individuals with autism spectrum disorder (ASD) frequently experience co-occurring psychiatric symptoms. This scientific panel integrates clinical and epidemiological perspectives to examine the conceptualization, measurement, and negative outcomes of this co-occurrence. Our first talk highlights key insights regarding the conceptualization of psychiatric syndromes in ASD derived from clinical evaluations of several thousand children and adolescents with ASD, other psychiatric syndromes and typical development. Talk 2 synthesizes the literature on comorbid psychopathology in ASD, examining how different measurement approaches may influence prevalence estimates. Using national data, talks 2 and 3 then examine the relationship of co-occurring psychiatric symptoms in ASD to life course outcomes, in particular adverse childhood experiences and criminality. The overarching goal of this panel will be to consider the implications of co-occurring psychiatric syndromes in ASD to epidemiologic research, clinical practice and public health – that is, to consider how our conceptualization of psychiatric co-occurrence may inform etiological models, measurement and treatment development as well as our ability to address the real-word service needs of individuals with ASD.

10:30 136.001 Programmatic Research into Co-Occurring Psychiatric Syndromes in Autism Spectrum Disorder K. D. Gadow, Psychiatry, Stony Brook University, Stony Brook, NY

10:55 136.002 Modifying Symptom and Diagnostic Criteria for Additional Psychiatric Disorders in ASD: What Is the Evidence? E. Simonoff, Department of Child and Adolescent Psychiatry, King's College London, London, United Kingdom

11:20 136.003 Adverse Childhood Experiences and ASD: The Role of Co-Occurring Psychiatric Symptoms C. M. Kerns[1] and B. Lee[2], (1)Drexel University, Philadelphia, PA, (2)Drexel University School of Public Health, Philadelphia, PA

11:45 136.004 Autism Spectrum Disorders and Criminal Convictions: The Role of Psychiatric Comorbidity R. Heeramun[1], C. Magnusson[2], C. H. Gumpert[3], S. Granath[4], C. Dalman[5], M. Lundberg[5] and D. Rai[6,7], (1)Avon and Wiltshire Mental Health Trust, Bristol, England, United Kingdom, (2)Karolinska Institutet, Stockholm, Sweden, (3)Centre for Psychiatry Research & Education, Karolinska Institutet, Stockholm, Sweden, (4)Research and Development Unit, The Swedish National Council for Crime Prevention, Stockholm, Sweden, (5)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (6)Avon and Wiltshire Partnership NHS Mental Health Trust, Bristol, United Kingdom, (7)Centre for Academic Mental Health, University of Bristol, Bristol, United Kingdom

12:10 Discussant

Tech Demo Session
137 - Innovative Technology Demonstrations
10:00 AM - 1:30 PM - Imperial Ballroom

1 137.001 Shared Genomic Segments (SGS) Analysis Method: Application to Extended Utah Pedigrees at High Risk for ASD V. Rajamanickam[1], T. M. Darlington[2], R. Sargent[1], N. J. Camp[1] and H. Coon[2], (1)Genetic Epidemiology, University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT

2 137.002 Creating a Spatial Data Architecture for the National Database for Autism Research M. L. Miranda[1,2], P. Maxson[1], N. Sandberg[1] and D. Hall[3], (1)National Center for Geospatial Medicine, University of Michigan, Ann Arbor, MI, (2)School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI, (3)Omnitec Solutions Inc., Bethesda, MD

3 137.003 Delsia: An Innovative Funding Vehicle That Is Turning Science and Technology into Reality for the Autism Community D. G. Smith[1], E. Clayton[2] and R. H. Ring[3], (1)Autism Speaks, Boston, MA, (2)Autism Speaks, New York, NY, (3)Autism Speaks, Princeton, NJ

4 137.004 A Novel Approach for Efficient Submission of Research Data to the National Database for Autism Research (NDAR) P. Langhorne, F. Farach, D. Voccola, C. Tirrell and L. Rozenblit, Prometheus Research, LLC, New Haven, CT

5 137.005 Olfactory Detection Thresholds in Children with Autism Spectrum Disorders Using Pulse Ejection Systems H. Kumazaki[1,2], A. Tomoda[1], K. Okada[3], T. Muramatsu[2] and M. Mimura[2], (1)Research Center for Child Mental Development, University of Fukui, Yoshida-gun, Fukui Prefecture, Japan, (2)Department of Neuropsychiatry, School of Medicine, Keio University, Tokyo, Japan, (3)Department of Information & Computer Science , Graduate School of Science and Technology, Keio University, Yokohama, Japan

6 137.006 Feasibility of Ecological Momentary Assessment of Emotion in Adolescents with Autism Spectrum Disorders M. L. Kovac[1], E. Hanna[2], S. Miller[3] and G. S. Dichter[4], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Duke University, Durham, NC, (3)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Carrboro, NC, (4)University of North Carolina, Chapel Hill, NC

7 137.007 Can Virtual Reality be Used for Behavioral Analysis in Autism Spectrum Disorder? a Simulation for Interpersonal Distance Preference Assessment M. Simoes[1,2], S. Mouga[1,3], A. C. Pereira[1], P. Carvalho[2], G. G. Oliveira[1,3,4,5] and M. Castelo-Branco[1,6,7], (1)Institute for Biomedical Imaging and Life Sciences, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (2)Center for Informatics and Systems, University of Coimbra, Coimbra, Portugal, (3)Unidade de Neurodesenvolvimento e Autismo do Serviço do Centro de Desenvolvimento da Criança, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (4)University Clinic of Pediatrics, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (5)Centro de Investigação e Formação Clínica, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (6)ICNAS Produção, Coimbra, Portugal, (7)ICNAS, University of Coimbra, Coimbra, Portugal

8 137.008 Eye Tracking Analysis of Attention to Text for Children with Autism Spectrum Disorders J. B. Plavnick[1], L. Skibbe[2], J. L. Thompson[1] and S. Bak[1], (1)Michigan State University, East Lansing, MI, (2)Human Development and Family Studies, Michigan State University, East Lansing, MI

9 137.009 The Effect of Gaze-Contingent Feedback on the Performance of Adolescents with ASD in a Virtual Reality Driving Environment J. W. Wade[1], D. Bian[1], J. Fan[1], L. Zhang[1], A. Swanson[2], M. S. Sarkar[3], Z. Warren[2] and N. Sarkar[4], (1)Electrical Engineering and Computer Science, Vanderbilt University, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Computer Science, Middle Tennessee State University, Murfreesboro, TN, (4)Mechanical Engineering, Vanderbilt University, Nashville, TN

10 137.010 Littlehelper: Using Google Glass to Assist Individuals with Autism in Job Interviews Q. Xu[1], S. C. S. Cheung[2] and N. Soares[3], (1)University of Kentucky, Lexington, KY, (2)Center for Visualization and Virtual Environments, University of Kentucky, Lexington, KY, (3)Geisinger Autism & Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA

11 137.011 Using Wearables to Augment Social Interactions for Adults with ASD L. E. Boyd[1], A. Rangel[2], S. Hirano[1], L. Escobedo[3], M. Tentori[2] and G. R. Hayes[1], (1)Informatics, UCI, Irvine, CA, (2)Computer Science, Center for Scientific Research and Higher Education of Ensenada, Ensenada, Mexico, (3)Computacion y sistemas, Instituto Tecnologico de Tijuana, Tijuana, Mexico

12 137.012 Teaching Executive Function and Social Cognition Using a Kinect-Based Intervention Tool C. Whalen, M. Casale, M. Small, A. Mittal and J. Quiocho, Research and Development, West Health Insitute, La Jolla, CA

13 137.013 Socially Animated Machine (SAM): A Novel Design for Robotic Research in Children with Autism Spectrum Disorders S. A. Koch[1], C. D. Clesi[1], J. B. Lebersfeld[1], C. E. Stevens[1], A. G. Parker[1], M. E. McNew[1], M. I. Hopkins[2], F. R. Amthor[2] and F. J. Biasini[2], (1)University of Alabama at Birmingham, Birmingham, AL, (2)Psychology, University of Alabama at Birmingham, Birmingham, AL

14 137.014 Social Personalized Human-Machine Interaction for People with Autism: A Close Look at Proprioceptive and Visual Orientation Integration P. Chevalier[1], A. Tapus[2], J. C. Martin[3], C. Bazile[4] and B. Isableu[5], (1)ENSTA ParisTech, Palaiseau, France, (2)Computer Science and System Engineering, ENSTA-ParisTech, Palaiseau, France, (3)LIMSI, CNRS/ Université paris-Sud, Orsay, France, (4)FAM-La Lendemaine, Les Molières, France, (5)Université Paris Sud, Orsay, France

15 137.015 Using Robots As Therapeutic Agents to Teach Children with Autism Recognize Facial Expression S. Mavadati[1], H. Feng[2], P. B. Sanger[1], S. Silver[1], A. Gutierrez[3] and M. H. Mahoor[2], (1)University of Denver, Denver, CO, (2)Electrical and Computer Engineering, University of Denver, Denver, CO, (3)Psychology, Florida International University, Miami, FL

16 137.016 Affect and Social Behaviors of School-Aged, High Functioning Children with ASD during Robot Interaction C. Daniell[1], E. S. Kim[1], C. Makar[1], J. Elia[1], B. Scassellati[2] and F. Shic[3], (1)Yale University, New Haven, CT, (2)Computer Science and Mechanical Engineering, Yale University, New Haven, CT, (3)Child Study Center, Yale University School of Medicine, New Haven, CT

17 137.017 Understanding Interaction Dynamics in Socially Assistive Robotics with Children with ASD E. Short[1] and M. J. Mataric[2], (1)University of Southern California, Los Angeles, CA, (2)Computer Science, University of Southern California, Los Angeles, CA

18 137.018 A 3-D Learning Environment for Infants and Toddlers at-Risk for ASD: Can Technology Improve Early Social Communication Vulnerabilities Z. Zheng[1], Q. Fu[1], H. Zhao[1], A. Swanson[1], A. S. Weitlauf[2], N. Sarkar[3] and Z. Warren[4], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)Mechanical Engineering, Vanderbilt University, Nashville, TN, (4)Pediatrics, Vanderbilt University, Nashville, TN

19 137.019 The Benefits of Online Play: An Investigation of Virtual Worlds for Children with Autism Spectrum Disorder K. E. Ringland[1], C. T. Wolf[1] and G. R. Hayes[2], (1)Informatics, University of California, Irvine, Irvine, CA, (2)Informatics, UCI, Irvine, CA

20 137.020 ASC-Inclusion – a Virtual World Teaching Children with ASC about Emotions S. Newman[1], O. Golan[2], S. Baron-Cohen[3], S. Bolte[4], A. Rynkiewicz[5], A. Baranger[6], B. Schuller[7], P. Robinson[8], A. Camurri[9], M. Sezgin[10], N. Meir-Goren[1], S. Tal[2], S. Fridenson-Hayo[2], A. Lassalle[3], S. Berggren[4], N. Sullings[6], D. Pigat[3], K. Ptaszek[5], E. Marchi[7], S. Piana[9] and T. Baltrusaitis[8], (1)Compedia, Ramat-Gan, Israel, (2)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)Center of neurodevelopmental disorders, Karolinska Institutet, Stockholm, Sweden, (5)Spectrum ASC-Med, Gdansk, Poland, (6)Autism Europe, Brussels, Belgium, (7)Institute for Human-Machine Communication, Technische Universität München, Munich, Germany, (8)Computer Laboratory, University of Cambridge, Cambridge, United Kingdom, (9)University of Genova, Genova, Italy, (10)Department of Computer Engineering, Koç University, Istanbul,, Turkey

21 137.021 Design of a Collaborative Virtual Environment to Foster Collaborative Skills for Children with ASD L. Zhang[1], A. Swanson[1], A. S. Weitlauf[2], Z. Warren[3] and N. Sarkar[4], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)Pediatrics, Vanderbilt University, Nashville, TN, (4)Mechanical Engineering, Vanderbilt University, Nashville, TN

22 137.022 Generative Language Learning in Severe Autism: Experimental Evaluation of a Mobile Application O. Wendt[1], N. Hsu[2], A. Torelli[3], K. Warner[3] and A. Goss[3], (1)Heav 202D, Purdue University, West Lafayette, IN, (2)Educational Studies, Purdue University, West Lafayette, IN, (3)Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN

23 137.023 Creating Exploratory Touch-Screen Games That Include Novel and Surprising Aspects As Motivators of Communication for Children with Autism A. M. Alcorn[1], J. Good[2], H. Pain[3] and S. Fletcher-Watson[4], (1)School of Informatics, University of Edinburgh, Edinburgh, United Kingdom, (2)Department of Informatics, University of Sussex, Falmer, Brighton, England, (3)School of Informatics, University of Edinburgh, Edinburgh, Scotland, (4)University of Edinburgh, Edinburgh, Scotland, United Kingdom

24 137.024 Design and Assessment of a Web-Based Training Tutorial Developed to Empower Parents with the Knowledge and Skills Necessary to Effectively Improve Their Child's Communication and Behavior during Daily Activities K. A. Kobak[1], A. Swanson[2], L. Wallace[3], Z. Warren[2] and W. L. Stone[4], (1)Center for Psychological Consultation, Madison, WI, (2)Vanderbilt University, Nashville, TN, (3)Vanderbilt Kennedy Center, Nashville, TN, (4)Psychology, University of Washington, Seattle, WA

25 137.025 Investigating the Usability of a Tablet-Based Interface for Management of Anxiety-Related Arousal in Children with Autism Spectrum Disorder T. A. Chiu[1] and A. Kushki[1,2], (1)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, ON, Canada

26 137.026 Seeing the Doctor without Fear: Systematic Desensitization for Medical Visits in ASD V. Pensosi[1] and B. Villamia[2], (1)28223 Pozuelo de Alarcon, Fundación Orange, Madrid, MAD, Spain, (2)Fundación Orange, Madrid, Spain

27 137.027 A Smartphone Application Designed for Teaching Emergency Safety Skills to Children with Autism Spectrum Disorders J. Huber[1,2,3,4], S. So[5], T. Jegathesan[1], S. Davis[1], M. Goodman[1], E. Young[1,3], N. Mistry[1], D. M. Campbell[1,6,7], H. J. Bonifacio[1,7,8] and A. Mihailidis[4,5], (1)Pediatrics, St.Michael's Hospital, Toronto, ON, Canada, (2)Division of Neurology, Hospital for Sick Children, Toronto, ON, Canada, (3)Division of Developmental Pediatrics, Department of Pediatrics, University of Toronto, Toronto, ON, Canada, (4)Department of Rehabilitation Sciences, University of Toronto, Toronto, ON, Canada, (5)Artificial Intelligence & Robotics in Rehab Team, Toronto Rehabilitation Institute/University Health Network, Toronto, ON, Canada, (6)Allan Waters Family Simulation Centre, St.Michael's Hospital, Toronto, ON, Canada, (7)Pediatrics, University of Toronto, Toronto, ON, Canada, (8)Divisions of Adolescent Medicine and Emergency Medicine, Hospital for Sick Children, Toronto, ON, Canada

28 137.028 An Interactive App for Social Skills Training in Autism Spectrum Disorder B. Kinsella[1] and A. Kushki[1,2], (1)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, ON, Canada

29 137.029 Mebook – a First-Person Social Narrative Game N. M. Uzuegbunam[1], W. H. Wong[2], S. C. S. Cheung[3] and L. A. Ruble[2], (1)Electrical Engineering, University of Kentucky, Center for Visualization and Virtual Environments, Lexington, KY, (2)University of Kentucky, Lexington, KY, (3)Center for Visualization and Virtual Environments, University of Kentucky, Lexington, KY

30 137.030 Using Mobile Phones Screen Mirroring to Improve Social Skills for Children with Autism M. Habash, Leeds Becket University, Ottawa, ON, Canada

31 ▸ 137.031 Technology-Based Framework to Improve Quality of Life of Parents of Children with Autism in Gaza Strip M. Habash, Leeds Becket University, Ottawa, ON, Canada

32 137.032 Enhancing the Perceptive and Cognitive Visual Processes in Low-Functioning Autism: Sigueme (FOLLOW-ME) V. Pensosi, 28223 Pozuelo de Alarcon, Fundación Orange, Madrid, MAD, Spain

33 137.033 AMP: An Autism Management Platform E. J. Linstead, R. Burns, D. Nguyen and D. Tyler, Schmid College of Science and Technology, Chapman University, Orange, CA

34 137.034 Use of Behavior Imaging to Assess Inter-Rater Reliability in a Multi-Site Pharmaceutical Trial R. M. Oberleitner[1], U. Reischl[2] and K. G. Gazieva[1], (1)Behavior Imaging Solutions, Boise, ID, (2)Department of Community and Environmental Health, Boise State University, Boise, ID

35 137.035 Analysis of Parent Responses to Using a Remote Autism Diagnostic Assessment System N. L. Matthews[1], C. J. Smith[1], N. Nazneen[2], R. M. Oberleitner[3], A. Rozga[4], G. D. Abowd[4] and R. Arriaga[5], (1)Research, Southwest Autism Research & Resource Center, Phoenix, AZ, (2)UserWise Usability Research and Consulting, Mountain View, CA, (3)Behavior Imaging Solutions, Boise, ID, (4)School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA, (5)Georgia Institute of Technology, Atlanta, GA

36 137.036 Web-Based Toolkit for Multimodal Data Analysis in ASD Research O. O. Wilder-Smith and M. S. Goodwin, Northeastern University, Boston, MA

37 137.037 Tablet-Based Method for Handwriting Assessment B. Dirlikov[1], M. B. Nebel[2], A. J. Bastian[3], L. Younes[4] and S. H. Mostofsky[5], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (3)Johns Hopkins School of Medicine, Kennedy Krieger Institute, Baltimore, MD, (4)Applied Mathematics and Statistics, Johns Hopkins University, Baltimore, MD, (5)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD

Poster Session
138 - Diagnostic, Behavioral and Intellectual Assessment
11:30 AM - 1:30 PM - Imperial Ballroom

41 138.041 A Comparison of Clinical Versus Self-Report Measures: An Evaluation of the Broad Autism Phenotype in Parents of Individuals with Autism **J. Barstein**, K. Nayar, N. M. Heckel, L. Bush and M. C. Losh, Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL

42 138.042 A Comparison of Diagnostically Relevant Item Response Characteristics Between Females and Males with Autism **R. A. Embacher**[1], A. Y. Hardan[2] and T. W. Frazier[3], (1)Center for Autism, Cleveland Clinic Children's Hospital, Cleveland, OH, (2)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (3)Cleveland Clinic, Center for Autism, Cleveland Clinic Children's, Cleveland, OH

43 138.043 A Longitudinal Evaluation of Restricted Behaviors and Sensory Interests in Angelman's Syndrome Using the Behavior and Sensory Interests Questionnaire **D. Peterson**[1], J. Love-Nichols[1], S. Maisel[2] and E. Hanson[2], (1)Division of Development Medicine and Program in Genomics, Boston Children's Hospital, Boston, MA, (2)Boston Children's Hospital, Boston, MA

44 138.044 A Method for Universal Screening of Social Challenges in Elementary School Students **C. J. Smith**[1], E. Pollard[2], S. E. Ober-Reynolds[3], N. L. Matthews[4], A. J. Stein[5], R. Melmed[6] and D. Openden[7], (1)Southwest Autism Research & Resource Center, Phoenix, AZ, (2)Research, SARRC, Phoenix, AZ, (3)Southwest Autism Research & Resource Center (SARRC), Phoenix, AZ, (4)Research, Southwest Autism Research & Resource Center, Phoenix, AZ, (5)Neurology, University of Colorado, Anschutz Medical Campus, Aurora, CO, (6)Southwest Autism Research Center and Melmed Cente, Scottsdale, AZ, (7)Southwest Autism Research and Resource Center, Phoenix, AZ

45 138.045 Ability and Disability in Autism Spectrum Disorder: A Systematic Literature Review Employing the International Classification of Functioning, Disability and Health-Children and Youth Version (ICF-CY) **S. Mahdi**, Karolinska Institutet, Kista, Sweden

46 ▸ 138.046 Accuracy of ASD Diagnoses in a Sample of Black and Hispanic School-Aged Children **J. M. Jamison**[1], M. Oliphant[1], P. M. Weinger[1], J. Krata[2], E. Holl[2], J. Shaoul[2], B. Hernandez[2], J. D. Buxbaum[1,3,4,5,6] and A. Kolevzon[1,7,8], (1)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (2)YAI, New York, NY, (3)The Mindich Child Health and Development Institute,, Icahn School of Medicine at Mount Sinai, New York, NY, (4)Fishberg Department of Neuroscience, Icahn School of Medicine at Mount Sinai, New York, NY, (5)Friedman Brain Institute, Icahn School of Medicine at Mount Sinai, New York, NY, (6)Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, NY, (7)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (8)Pediatrics, Icahn School of Medicine at Mount Sinai, New York, NY

47 138.047 Additional Testing Shows High Performance of Machine Learning Classifiers and Supports Potential for Rapid, Mobile Autism Risk Detection **D. Wall**, Stanford University, Palo Alto, CA

48 138.048 An Item Response Theory Analysis of the Childhood Autism Rating Scale, Second Edition (CARS-2) **M. C. Davis**[1], M. D. Toland[1], J. Campbell[1], L. Murphy[2] and L. Gardner[2], (1)Department of Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (2)University of Tennessee Health Science Center, Memphis, TN

49 138.049 An Online Verbal IQ Test: Development, Validity, and Standardization of an Adaptive Vocabulary Test for Remote Phenotyping of Parents **C. C. Clements**[1], G. K. Bartley[2], L. DePolo[3], L. Bateman[3], H. Morton[4], J. Parish-Morris[5], N. Stein[6] and R. T. Schultz[7], (1)Psychology, University of Pennsylvania, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Malvern, PA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)The Children's Hospital of Philadelphia, Philadelphia, PA, (5)Children's Hospital of Philadelphia, Philadelphia, PA, (6)Statistics, University of Pennsylvania, Philadelphia, PA, (7)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

50 138.050 Assessment of Intelligence in Young Autistic Children: A Comparison of Tests Available Under and over Age 3 **V. Courchesne**[1], C. Jacques[2], A. M. Nader[3], M. Descamps[4], É. Danis[5], L. Mottron[6], M. Dawson[7] and I. Soulières[7], (1)Rivière-des-Prairies Hospital, Centre de recherche de l'Institut universitaire en santé mentale de Montréal, Montréal, QC, Canada, (2)Université du Québec en Outaouais, Gatineau, QC, Canada, (3)Department of Psychology, Université du Québec à Montréal, Montréal, QC, Canada, (4)Université du Québec à Montréal, Montreal, QC, Canada, (5)Psychology, University of Quebec at Montreal, Montréal, QC, Canada, (6)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (7)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montréal, QC, Canada

51 ▸ 138.051 Autism-Spectrum Quotient (AQ): A Preliminary Study of Its Diagnostic Validity in a Clinical Spanish Sample, More Than a Psychometric Test? **C. D. Jimenez de Espinoza**[1] and J. L. González-Mora[2], (1)Physiology, University of La Laguna, Santa Cruz de Tenerife, Spain, (2)University of La Laguna, La Laguna, Spain

52 138.052 Child Characteristics As Moderators of Parent-Clinician Agreement on Autism Symptoms **E. E. Neuhaus**[1], R. Bernier[2], S. J. Webb[3], S. Faja[4] and K. Pelphrey[5], (1)PO Box 5371, Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (4)Developmental Medicine, Boston Children's Hospital/Harvard School of Medicine, Boston, MA, (5)Child Study Center, Yale University, New Haven, CT

53 138.053 Classifying Autism Spectrum Disorders By ADI-R: Separate Subtypes or Severity Gradient? **H. Cholemkery**[1] and C. M. Freitag[2], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University, Frankfurt am Main, Germany, (2)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University, Frankfurt am, Main, Germany

54 138.054 Comparing Remote Diagnosis of ASD to Gold Standard, in-Person Assessment **C. J. Smith**[1], N. L. Matthews[2], A. Rozga[3], N. Nazneen[4], R. M. Oberleitner[5], R. Melmed[6] and G. D. Abowd[3], (1)Southwest Autism Research & Resource Center, Phoenix, AZ, (2)Research, Southwest Autism Research & Resource Center, Phoenix, AZ, (3)School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA, (4)UserWise Usability Research and Consulting, Mountain View, CA, (5)Behavior Imaging Solutions, Boise, ID, (6)Southwest Autism Research Center and Melmed Cente, Scottsdale, AZ

55 138.055 Construct Validity and Measurement Invariance of the Children's Scale for Hostility and Aggression: Reactive/Proactive (C-SHARP) **C. Farmer**[1], A. J. Kaat[2] and M. G. Aman[2], (1)NIMH, NIH, Bethesda, MD, (2)Nisonger Center, Ohio State University, Columbus, OH

56 138.056 DSM-IV-TR Criteria That Best Differentiate Intellectual Disability from Autism Spectrum Disorders A. L. Pedersen[1,2], S. Pettygrove[3], Z. Lu[2], J. Andrews[2], F. J. Meaney[4], M. Kurzius-Spencer[2], L. C. Lee[5], M. S. Durkin[6] and C. Cunniff[2,7], (1)Psychology & Child Development, California State University, Stanislaus, Turlock, CA, (2)Department of Pediatrics, College of Medicine, University of Arizona, Tucson, AZ, (3)Epidemiology and Biostatistics, University of Arizona, Tucson, AZ, (4)University of Arizona, Tucson, AZ, (5)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6)Waisman Center, University of Wisconsin-Madison, Madison, WI, (7)Division of Medical Genetics, Weill Cornell Medical College, New York, NY

57 138.057 Descriptive Assessment of Problem Behavior in a Large-Scale Randomized Trial in Young Children with Autism Spectrum Disorder T. L. Burrell[1], K. Bearss[2], N. Minshawi-Patterson[3], C. Johnson[4], L. Lecavalier[5], T. Smith[6], N. Swiezy[3] and L. Scahill[7], (1)Research, Marcus Autism Center, Atlanta, GA, (2)Pediatrics, Emory University School of Medicine, Atlanta, GA, (3)Indiana University School of Medicine, Indianapolis, IN, (4)University of Pittsburgh, Pittsburgh, PA, (5)Psychology, The Ohio State University, Columbus, OH, (6)601 Elmwood Ave, Box 671, University of Rochester, Rochester, NY, (7)Pediatrics, Marcus Autism Center, Atlanta, GA

58 138.058 Developing ASD Screening Criteria for the Brief Infant Toddler Social Emotional Assessment (BITSEA) I. Giserman Kiss and A. S. Carter, Department of Psychology, University of Massachusetts Boston, Boston, MA

59 138.059 Development of a New Measure to Identify Fundamental Emotion Regulation Processes Across the ASD Spectrum: Application to the Autism Inpatient Collection C. A. Mazefsky[1], M. Siegel[2], R. Gabriels[3], L. Yu[4], D. L. Williams[5], J. Pierri[6], C. Peura[7] and P. A. Pilkonis[1], (1)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (2)Maine Medical Center Research Institute, Westbrook, ME, (3)Children's Hospital Colorado, Aurora, CO, (4)University of Pittsburgh School of Medicine, Pittsburgh, PA, (5)Duquesne University, Pittsburgh, PA, (6)University of Pittsburgh Medical Center, Pittsburgh, PA, (7)Spring Harbor Hospital, Westbrook, ME

60 138.060 Development of an Autism Risk Index Using Remote Eye Tracking to Social Stimuli: A Preliminary Proof-of-Principle Investigation T. W. Frazier[1] and E. W. Klingemier[2], (1)Cleveland Clinic Children's, Cleveland, OH, (2)Pediatrics, Cleveland Clinic, Cleveland, OH

61 138.061 Developmental Changes in the Cognitive Profile of Individuals with Autism Spectrum Disorders A. R. Lemelman[1], J. E. Bice[1] and R. K. Kana[2], (1)University of Alabama at Birmingham, Birmingham, AL, (2)Department of Psychology, University of Alabama at Birmingham, Birmingham, AL

62 138.062 Developmental Differences Associated with Early Diagnosis: A Comparison of Toddlers Diagnosed with ASD at Age 2 Versus Age 3 S. Hoffenberg[1], J. Cash[1], C. Klaiman[1], J. Lorenzi[1,2] and C. Hall[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Virginia Tech, Blacksburg, VA

63 ▸ 138.063 Diagnostic Accuracy of ASRS and SRS in Screening ASD in Chinese Community Children X. Xu[1], B. Zhou[1], H. Zhou[1], L. Wu[2], X. Zou[3], X. Luo[4], W. Yan[1] and Y. Wang[1], (1)Children's Hospital of Fudan University, Shanghai, China, (2)Department of Children's and Adolescent Health, Public Health, Harbin Medical University, Harbin, China, (3)Pediatrics, Child Developmental & Behavioral Center, The 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, MD, (4)Central South University, Changsha, China

64 138.064 Diagnostic Trends in an ASD Population P. F. Turcotte, K. Miller and M. Mathew, A.J. Drexel Autism Institute, Philadelphia, PA

65 ▸ 138.065 Discriminant Validity of the ADI-R in Latino Families: Identifying Differences Between Autism Spectrum Disorder and Developmental Delay S. B. Vanegas, S. Magana and M. Morales, Disability and Human Development, University of Illinois at Chicago, Chicago, IL

66 138.066 Early Diagnosis of Autism Spectrum Disorder Via a Transdisciplinary Clinic P. J. Thaxter[1], V. Nanclares-Nogués[2] and L. Daley[1], (1)Autism Treatment Program, Advocate Children's Hospital, Park Ridge, IL, (2)Advocate Illinois Masonic Medical Center, Chicago, IL

67 138.067 Early Predictors of Academic Achievement in School-Aged Children with Autism Spectrum Disorders L. E. Miller[1], E. Troyb[2], K. Knoch[3], L. E. Herlihy[4] and D. A. Fein[1], (1)Psychology, University of Connecticut, Storrs, CT, (2)Alpert Medical School of Brown University, Providence, RI, (3)MassGeneral for Children at North Shore Medical Center, Salem, MA, (4)Yale School of Medicine Child Study Center, New Haven, CT

68 138.068 Early Temperamental Persistence and Associations with Later Executive Functioning L. D. Ankeny[1], N. M. Reyes[2] and S. L. Hepburn[3], (1)Psychology, University of Denver, Denver, CO, (2)JFK Partners, Aurora, CO, (3)Psychiatry & Pediatrics, JFK Partners/University of Colorado School of Medicine, Aurora, CO

69 138.069 Examining the Interaction of Social Function and Language Skills in ASD A. Kushki[1], N. Kong[2], J. A. Brian[3], A. Dupuis[4], S. Chow[2] and E. Anagnostou[5], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)150 Kilgour Rd., Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (4)The Hospital for Sick Children, Toronto, ON, Canada, (5)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

70 138.070 Extension of the PDD Behavior Inventory to Adolescents I. L. Cohen, 1050 Forest Hill Rd, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY

71 138.071 Factor Structure and Psychometric Properties of the Revised Home Situations Questionnaire for Autism Spectrum Disorder M. Chowdhury[1], M. G. Aman[2], L. Lecavalier[3], T. Smith[4], C. Johnson[5], N. Swiezy[6], J. T. McCracken[7], B. H. King[8], C. J. McDougle[9], K. Bearss[10] and L. Scahill[11], (1)Psychology, Allegheny College, Meadville, PA, (2)The Nisonger Center UCEDD, Ohio State University, Columbus, OH, (3)Psychology, The Ohio State University, Columbus, OH, (4)601 Elmwood Ave, Box 671, University of Rochester, Rochester, NY, (5)University of Pittsburgh, Pittsburgh, PA, (6)Indiana University School of Medicine, Indianapolis, IN, (7)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (8)Psychiatry, University of Washington & Seattle Children's Hospital, Seattle, WA, (9)Harvard School of Medicine, Massachusettes General Hospital, Lexington, MA, (10)Pediatrics, Emory University School of Medicine, Atlanta, GA, (11)Pediatrics, Marcus Autism Center, Atlanta, GA

72 138.072 Follow-up ASD Screening Identifies Children Missed at Initial Screening Timepoint C. Cordeaux[1], K. L. Anderson[1], M. L. Barton[1], D. A. Fein[1] and D. L. Robins[2], (1)Psychology, University of Connecticut, Storrs, CT, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

73 138.073 From a Heterogeneous ASD Phenotype to Quantitatively Distinct Putative ASD Subtypes A. P. Whitten[1] and J. W. Bodfish[2], (1)Hearing & Speech Sciences, Vanderbilt University, Nashville, TN, (2)Vanderbilt Brain Institute, Nashville, TN

74 138.074 Gender Differences in ASD Symptoms: Do Women with HFASD Display Fewer Socio-Communicative Difficulties Than Men? W. T. Brooks[1], H. M. Scott[2] and B. A. Benson[2], (1)TEACCH Autism Program, UNC, Chapel Hill, NC, (2)Nisonger Center, Columbus, OH

75 138.075 Heterogeneity at the Minimally Verbal End of the Spectrum C. DiStefano[1], C. Kasari[2], A. P. Kaiser[3], R. J. Landa[4] and P. Mathy[5], (1)Center for Autism Research and Treatment, University of California, Los Angeles, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA, (3)Special Education, Vanderbilt University, Nashville, TN, (4)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (5)Kennedy Krieger Institute, Baltimore, MD

76 138.076 How Useful Are the Parent-Completed Ages and Stages Questionnaires for Screening of Motor Problems in Preschoolers with High-Functioning Autism? M. Vanvuchelen[1], M. A. Braeken[2] and L. Van Schuerbeeck[2], (1)Hasselt University Faculty of Medicine and Life Sciences, Diepenbeek, Belgium, (2)Hasselt University, Diepenbeek, Belgium

77 138.077 Identifying Homogeneous Subgroups of Children with ASD, ADHD, and OCD A. Dupuis[1], S. Georgiades[2], A. Charach[1], E. Anagnostou[3], P. D. Arnold[4], R. Schachar[5], P. Szatmari[6], R. Nicolson[7] and A. Kushki[8], (1)The Hospital for Sick Children, Toronto, ON, Canada, (2)McMaster University, Hamilton, ON, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Psychiatry, Hospital for Sick Children, Toronto, ON, Canada, (5)Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada, (6)University of Toronto, Toronto, ON, Canada, (7)Psychiatry, Western University, London, ON, Canada, (8)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

78 138.078 Inter-Rater Reliability of Multi-Disciplinary Autism Spectrum Disorder Diagnoses L. Speer[1], C. Muhvic[2], H. Sydorwicz[3], M. Clampitt[2], L. Best[2], K. Ziegler[2], S. Parikh[3], E. E. Schulte[3], K. Giuliano[4] and T. W. Frazier[1], (1)Cleveland Clinic, Center for Autism, Cleveland Clinic Children's, Cleveland, OH, (2)Cleveland Clinic, Center for Autism, Cleveland, OH, (3)Cleveland Clinic Children's, Cleveland, OH, (4)Pediatrics, Cleveland Clinic Children's, Cleveland, OH

79 138.079 Links Between ASD and Self-Regulation Abilities on Adaptive Functioning Skills T. Estrada[1], H. N. Davis[1], B. J. Wilson[1], K. McGill[2], O. Dorn[2] and J. Mackee[2], (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Psychology, Family, and Community, Seattle Pacific University, Seattle, WA

80 138.080 Long-Term Development of Children with Autism Spectrum Disorders Following Early Intensive Behavioral Intervention: Adaptive Functioning L. McCombe[1,2], M. S. Lee[1,2], C. Chand[2], T. Martin[1,2] and C. T. Yu[1,2], (1)St.Amant Research Centre, Winnipeg, MB, Canada, (2)Psychology, University of Manitoba, Winnipeg, MB, Canada

81 138.081 Machine Learning and Autism Diagnostics: Promises and Potential Pitfalls D. K. Bone[1], M. S. Goodwin[2], M. P. Black[3], C. C. Lee[4], K. Audhkhasi[1] and S. Narayanan[1], (1)Signal Analysis and Interpretation Lab (SAIL), University of Southern California, Los Angeles, CA, (2)Northeastern University, Boston, MA, (3)Information Sciences Institute (ISI), University of Southern California, Marina del Rey, CA, (4)Department of Electrical Engineering, National Tsing Hua University, Hsinchu, Taiwan

82 138.082 Measurement of Nonverbal and Verbal Abilities in Minimally Verbal Children with Autism Spectrum Disorders C. T. Moody[1] and C. Lord[2], (1)Psychology, University of California, Los Angeles, Los Angeles, CA, (2)Weill Cornell Medical College, White Plains, NY

83 138.083 Measuring Autistic Traits in the General Population: A Systematic Review of the Autism-Spectrum Quotient (AQ) in a Nonclinical Population Sample of 6,900 Typical Adult Males and Females E. Ruzich[1], C. Allison[2], P. Smith[3], P. Watson[4], B. Auyeung[5], H. Ring[6] and S. Baron-Cohen[7], (1)Department of Psychiatry, Autism Research Centre, Cambridge, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Centre, Cambridge University, Cambridge, United Kingdom, (4)MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom, (5)Department of Psychology, University of Edinburgh, Edinburgh, United Kingdom, (6)University of Cambridge, Cambridge, United Kingdom, (7)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

84 138.084 Measuring Treatment Effect in Children with Autism with the Brief Observation of Social Communication Change (BOSCC) A. Nordahl-Hansen[1], S. Fletcher-Watson[2], H. McConachie[3] and A. Kaale[4], (1)University of Oslo, Oslo, Oslo, Norway, (2)University of Edinburgh, Edinburgh, Scotland, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Oslo University Hospital, Vinderen, Oslo, Norway

85 ▸ 138.085 Moderating Effects of Spoken Language in the Home on the Relations Between Age at Diagnosis and ASD Symptoms and Expressive Language for Young Children with ASD Screened in Early Intervention F. Martinez-Pedraza, M. Maye and A. S. Carter, Department of Psychology, University of Massachusetts Boston, Boston, MA

86 138.086 Parent Reports of Social Functioning Provide Evidence of Criterion-Validity for the Social Responsiveness Scale, Second Edition in a High Functioning Sample of Youth with ASD K. Johnston[1] and G. Iarocci[2], (1)Simon Fraser University, Burnaby, BC, Canada, (2)Department of Psychology, Simon Fraser University, Burnaby, BC, Canada

87 138.087 Parent and Teacher Perceptions of ASD Severity and Comorbid Emotional and Behavioral Symptoms: Differences for Children with Regressive Onset S. S. Mire[1], N. S. Raff[1], S. L. McKee[1] and R. P. Goin-Kochel[2], (1)Educational Psychology, University of Houston, Houston, TX, (2)Pediatrics, Baylor College of Medicine, Houston, TX

88 138.088 Predictability of Self-Report Questionnaires (RAADS-R-NL, AQ-28 AND AQ-10) in the Assessment of Autism Spectrum Disorders in Adults B. B. Sizoo[1] and H. M. Geurts[2], (1)Dimence, Deventer, Netherlands, (2)Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands

89 138.089 Predicting and Modeling Distinct Developmental Trajectories of Adaptive Behavior during Pre-School to School-Age in Children with ASD C. Farmer, L. Swineford and A. Thurm, Pediatrics & Developmental Neuroscience, National Institute of Mental Health, Bethesda, MD

90 138.090 Prediction of Intellectual Impairment By Developmental Assesments in Children with Autism Spectrum Disorder Compared to Globally Delayed Children L. Gabis[1] and S. Shefer[2], (1)PEDIATRICS, CHILD DEVELOPMENT CENTER, Rehovot, Israel, (2)Pediatrics, Child Dev Center, Ramat Gan, Israel

91 138.091 Preliminary Analysis of the Function of Self Injurious Behavior in the Autism Inpatient Collection (AIC) Sample T. Flis[1], K. A. Smith[2], R. Chappell[3], B. L. Handen[4] and M. Siegel[5], (1)Child and Adolescent Neuropsychiatry Unit, Sheppard Pratt, Baltimore, MD, (2)Maine Medical Center Research Institute, Portland, ME, (3)Sheppard Pratt, Baltimore, MD, (4)Psychiatry, University of Pittsburgh Medical Center, Pittsburgh, PA, (5)Maine Medical Center Research Institute, Westbrook, ME

92 138.092 Prevalence and Age-Modulated Presentation of Subthreshold Attention Deficit and Hyperactivity Disorder Comorbidity in Young People with Autism Spectrum Disorders E. Serrano Drozdowskyj, Psychiatry, Gregorio Marañon General University Hospital, Madrid, Spain

93 138.093 Promises and Limits: Exploring Relationships Between the First Year Inventory (FYI) and Autism Diagnostic Observation Schedule (ADOS) from 12 to 18 Months of Age with Machine Learning S. H. Kim[1], E. S. Kim[2], S. Macari[3], K. Chawarska[3] and F. Shic[3], (1)40 Temple St., Suite 7D, Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Child Study Center, Yale University School of Medicine, New Haven, CT

94 138.094 Psychometric Properties of a New Video-Referenced Rating of Quantitative Autistic Traits in Toddlers N. Marrus[1], Y. Zhang[2], E. L. Mortenson[2], L. Malik[3], S. Sant[2], L. Cole[4], K. Long[5], A. Glowinski[6] and J. N. Constantino[4], (1)Washington University School of Medicine, Webster Groves, MO, (2)Psychiatry, Washington University School of Medicine, Saint Louis, MO, (3)Psychiatry, Washington University School of Medicine, st louis, MO, (4)Washington University School of Medicine, Saint Louis, MO, (5)Psychiatry, Washington University in St Louis, St. Louis, MO, (6)Psychiatry, Washington University, St. Louis, MO

95 138.095 Quantifying the Behavioural Relationship Between ASD and Nonverbal Learning Disabilities: More Than Social Imperception M. E. Stothers[1] and J. Oram Cardy[2], (1)Western University, Canada, London, ON, Canada, (2)Western University, London, ON, Canada

96 138.096 Re-Evaluating the Structure of the Autism Quotient: A Novel 3-Factor Solution J. Burk[1], J. Zeman[2], T. Thrash[3] and C. L. Dickter[4], (1)College of William and Mary, Williamsburg, VA, (2)College of WIlliam and Mary, Williamsburg, VA, (3)College of William & Mary, Williamsburg, VA, (4)College of Wiliam and Mary, Williamsburg, VA

97 138.097 Reliability of Direct Behavior Ratings – Social Competence (DBR-SC) Data: How Many Ratings Are Necessary? S. P. Kilgus[1], T. C. Riley-Tillman[2], J. Stichter[2] and S. A. Owens[2], (1)Department of Educational, School, & Counseling Psychology, University of Missouri, Columbia, MO, (2)University of Missouri, Columbia, MO

98 138.098 Restricted and Repetitive Behaviors: Restricted By IQ? J. Viskochil[1], M. Stevenson[1], D. A. Bilder[1], A. Bakian[2], K. J. Cottle[1], W. M. McMahon[1] and H. Coon[1], (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah School of Medicine, Salt Lake City, UT

99 138.099 SASA: A Sensory Reactivity Measure for Severely Affected Individuals with Global Developmental Delay and/or Autism Spectrum Disorder T. Tavassoli[1], P. M. Weinger[2], A. Kolevzon[2] and J. D. Buxbaum[3], (1)Seaver Autism Center, New York, NY, (2)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Seaver Autism Center for Research and Treatment, Department of Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY

100 138.100 Sensitivity and Specificity of the ADOS 2 Algorithms in a Large German Sample J. Medda[1], H. Cholemkery[2] and C. M. Freitag[3], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University Hospital, Frankfurt am Main, Germany, 60528 Frankfurt am Main, Germany, (2)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University, Frankfurt am Main, Germany, (3)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University, Frankfurt am, Main, Germany

101 138.101 Sensory Processing Abnormalities – a Constant Across the Autistic Spectrum J. Horder[1], C. E. Wilson[2], J. E. Faulkner[3], M. A. Mendez[4], V. Stoencheva[4], D. Spain[2], E. L. Woodhouse[5], C. M. Murphy[6], C. Ohlsen[6], G. M. McAlonan[7], D. M. Robertson[8] and D. G. Murphy[7], (1)De Crespigny Park, Institute of Psychiatry, King's College London, London, England, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (5)Institute of Psychiatry, King's College London, London, United Kingdom, (6)Behavioural Genetics Clinic, Maudsley Hospital, London, United Kingdom, (7)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (8)Behavioural Genetics Clinic, South London and Maudsley NHS Foundation Trust, London, United Kingdom

102 138.102 Simultaneous Administration of an Autism-Specific and General Developmental Screener in an Urban Pediatric Population C. J. Newschaffer[1], S. Khan[2], J. Guevara[3] and Y. S. Huang[4], (1)Drexel University, Philadelphia, PA, (2)Drexel University School of Public Health, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA, (4)General Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA

103 138.103 Social Communication and Cognitive Profiles: How Do Males and Females Compare? N. C. Ginn, J. L. Mussey and L. G. Klinger, TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC

104 138.104 Stability of Symptom Severity and Adaptive Function from Preschool to Elementary Age in Children with Autism Spectrum Disorder Y. J. Lee[1], C. H. Chiang[1], C. C. Wu[2], Y. M. Hou[3], J. H. Liu[4] and C. L. Chu[5], (1)Department of Psychology, National Chengchi University, Taipei, Taiwan, (2)Department of Psychology, Kaohsiung Medical University, Kaohsiung, Taiwan, (3)Department of Psychiatry, Chia-Yi Christian Hospital, Chia-Yi, Taiwan, (4)Psychiatry, Liouying, Chi Mei Medical Center, Tainan, Taiwan, (5)Department of Psychiatry, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, Taiwan

105 138.105 The Autism Inpatient Collection (AIC): Methods and Sample Desription M. Siegel[1], K. A. Smith[2], C. A. Mazefsky[3], R. Gabriels[4], D. Kaplan[5], E. M. Morrow[6], L. K. Wink[7], C. Erickson[7] and S. L. Santangelo[8], (1)Maine Medical Center Research Institute, Westbrook, ME, (2)Maine Medical Center Research Institute, Portland, ME, (3)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (4)Children's Hospital Colorado, Aurora, CO, (5)Child and Adolescent Neuropsychiatric Inpatient Unit at, Baltimore, MD, (6)Molecular Biology, Cell Biology and Biochemistry; Psychiatry and Human Behavior, Brown University/Bradley Hospital, Providence, RI, (7)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (8)Psychiatry, Maine Medical Center/Maine Med Ctr Research Institute, Portland, ME

106 138.106 The Autism Mental Status Exam: Psychometric Validity of a Brief Screening Tool B. Lewis[1], J. M. Jamison[2], C. Farrell[3] and D. Grodberg[4], (1)Yale Child Study Center, New Haven, CT, (2)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Developmental and Behavioral Pediatrics, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, (4)Box #1230, Icahn School of Medicine at Mount Sinai, New York, NY

107 138.107 The Autism Speaks Autism Treatment Network (AS ATN) Registry Data: Opportunities for Investigators A. Fedele[1] and A. M. Shui[2], (1)Autism Speaks, Philadelphia, PA, (2)Biostatistics Center, Massachussetts General Hospital, Boston, MA

108 138.108 The Broader Autism Phenotype and College Students' Choice of Majors: Validity of the Broad Autism Phenotype Questionnaire (BAP-Q) J. I. Cline[1] and J. C. Cox[2], (1)Brigham Young University, Provo, UT, (2)Counseling and Psychological Services, Brigham Young University, Provo, UT

109 138.109 The Food Flexibility Challenge Task (FFCT): Developing an Ecologically Valid Measure of Food Flexibility in Children with Autism Spectrum Disorder H. Morton[1], J. Worley[1] and E. S. Kuschner[2], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA

110 138.110 The Mullen Scales of Early Learning: Ceiling Effect Among Preschool Children A. Harel, N. Yitzhak, M. Yaari, E. Friedlander and N. Yirmiya, Psychology Department, Hebrew University, Jerusalem, Israel

111 138.111 The New DSM-5 Impairment Criterion for Autism Spectrum Disorder in Toddlers and Young Preschoolers E. Zander[1] and S. Bolte[2], (1)Center of Neurodevelopmental Disorders, Karolinska Institutet, Taby, Sweden, (2)Center of neurodevelopmental disorders, Karolinska Institutet, Stockholm, Sweden

112 138.112 The Role of Internalizing Symptoms on Family Functioning in Adolescents with ASD and Their Families S. Iadarola[1], L. A. Oakes[2] and T. Smith[3], (1)University of Rochester Medical Center, Rochester, NY, (2)Clinical Psychology, University of Rochester, Rochester, NY, (3)University of Rochester, Rochester, NY

113 138.113 The Social Attention and Communication Study: A School Age Follow-up M. Clark[1], J. Barbaro[2] and C. Dissanayake[3], (1)La Trobe University, Melbourne, VIC, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Victoria, Australia, (3)Olga Tennison Autism Research Centre, Melbourne, Australia

114 138.114 The Social Phenotype of ASD and Parent Report of Joint Attention in School Aged Children P. C. Mundy[1], N. S. McIntyre[2], L. E. Swain-Lerro[3] and T. Oswald[4], (1)2825 50Th Street, UC Davis, Sacramento, CA, (2)University of California at Davis, Davis, CA, (3)School of Education, UC Davis, Santa Rosa, CA, (4)MIND Institute, UC Davis, Davis, CA

115 138.115 The Value of Implementing the First Year Inventory - Lite for Screening in a Healthcare A. Ben-Sasson[1], E. Tirosh[2] and S. Habib[3], (1)University of Haifa, Haifa, Israel, (2)Hannah Khousy Child Development Center, Bnai Zion Medical Center and Rappoport Faculty of Medicine, Haifa, Israel, (3)Ministry of Health, Haifa, Israel

116 138.116 The "True" Interrater Reliability of the ADOS in Clinical Settings – a Never Ending Story? C. M. Willfors[1], E. Zander[2], N. Choque Olsson[3], C. Coco[4], S. Berggren[5], R. Kosieradzki[6], I. Jifält[7], A. M. Elmund[8], Å. Hedfors Moretti[9], A. Holm[10], V. Nordin[11], J. Linder[12], K. Olafsdottir[13] and S. Bolte[14], (1)Karolinska Institute Center for Neurodevelopmental Disorders, Stockholm, Sweden, (2)Karolinska Institutet, Taby, Sweden, (3)Karolinska Institutet, Pediatric Neuropsychiatry Unit, Department of Women's and Children's Health, Stockholm, Sweden, (4)Stockholm County Council, Child and Youth Psychiatry KIND, Stockholm, Sweden, (5)Center of neurodevelopmental disorders, Karolinska Institutet, Stockholm, Sweden, (6)Region Skåne, Child and Youth Psychiatry Malmö, Malmö, Sweden, (7)Vårdbolaget Tiohundra AB, Child and School Health services Norrtälje, Norrtälje, Sweden, (8)Prima Child and Youth Psychiatry AB, Stockholm, Sweden, (9)Stockholm County Council, Child and Youth Psychiatry Sollentuna, Stockholm, Sweden, (10)Stockholm County Council, Karolinska University Hospital, Stockholm, Sweden, (11)Stockholm County Council, Neuropediatric Unit, Sachs' Child and Youth Hospital, Stockholm South General Hospital,, Stockholm, Sweden, (12)Västra Götalandsregionen, Child and Youth Psychiatry SÄS Borås, Borås, Sweden, (13)Region Skåne, Child and Youth Psychiatry Malmö, Lund, Sweden, (14)Division of Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden

117 138.117 Timed Perceptual Tasks: Better Index of Processing Speed in Autistic Children? S. M. Duplan[1], V. Courchesne[2,3], G. Thermidor[2], M. P. Poulin-Lord[1,3] and I. Soulières[4,5], (1)Rivière-des-Prairies Hospital, Centre de recherche de l'Institut universitaire en santé mentale de Montréal, Montreal, QC, Canada, (2)Rivière-des-Prairies Hospital, Centre de recherche de l'Institut universitaire en santé mentale de Montréal, Montréal, QC, Canada, (3)University of Montreal, Montréal, QC, Canada, (4)Department of Psychology, Université du Québec à Montréal, Montréal, QC, Canada, (5)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montréal, QC, Canada

118 138.118 Use of Expressed Emotion (EE) in Assessing the Quality of Parent-Child Relationships: A Comparison of Young Children with and without ASD C. Shulman[1] and J. Koller[2], (1)School of Social Work, The Hebrew University in Jerusalem, Jerusalem, Israel, (2)The School of Education, The Hebrew University of Jerusalem, Jerusalem, Israel

119 138.119 Using Temperament Traits to Identify Subgroups of School-Aged Children with Autism Spectrum Disorder S. Georgiades[1], E. K. Duku[1], P. Szatmari[2], L. Zwaigenbaum[3], S. E. Bryson[4], T. A. Bennett[1], S. Al Balkhi[1], E. J. Fombonne[5], P. Mirenda[6], I. M. Smith[4], M. Elsabbagh[7], C. Waddell[8], T. Vaillancourt[9], J. Volden[3], W. Roberts[10] and A. Zaidman-Zait[11], (1)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (2)University of Toronto, Toronto, ON, Canada, (3)University of Alberta, Edmonton, AB, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)Oregon Health & Science University, Portland, OR, (6)University of British Columbia, Vancouver, BC, Canada, (7)Department of Psychiatry, McGill University, Montreal, QC, Canada, (8)Faculty of Health Sciences, Simon Fraser University, Vancouver, BC, Canada, (9)University of Ottawa, Ottawa, ON, Canada, (10)Pediatrics, University of Toronto, Toronto, ON, Canada, (11)Tel-Aviv University, Tel-Aviv, Israel

120 138.120 Validation and Factor Structure of the 3Di Short Version in a DSM-5 Context G. Slappendel[1,2], W. Mandy[3], J. van der Ende[1], F. C. Verhulst[1], J. Duvekot[1] and K. Greaves-Lord[1,2], (1)Department of Child & Adolescent Psychiatry/psychology, Erasmus MC - Sophia Children's Hospital, Rotterdam, Netherlands, (2)Yulius Autisme Expertisecentrum, Rotterdam/Dordrecht, Netherlands, (3)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom

121 138.121 Validation of Temporally-Sensitive Eye-Tracking Indices of Social Disability As Treatment Endpoints in School-Age Children with ASD A. R. Wrencher[1], J. Moriuchi[1], A. Klin[1], S. Shultz[2] and W. Jones[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

122 138.122 Validation of a Quantitative Approach of the Application of Autism Diagnostic Observation Schedule (ADOS): A Preliminary Eye-Tracking Study S. Mouga[1,2], J. Castelhano[1,3], J. Almeida[2], C. Café[2], F. Duque[2,4], G. G. Oliveira[1,2,4,5] and M. Castelo-Branco[1,3,6], (1)Institute for Biomedical Imaging and Life Sciences, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (2)Unidade de Neurodesenvolvimento e Autismo do Serviço do Centro de Desenvolvimento da Criança, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (3)ICNAS, University of Coimbra, Coimbra, Portugal, (4)University Clinic of Pediatrics, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (5)Centro de Investigação e Formação Clínica, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (6)ICNAS Produção, Coimbra, Portugal

123 138.123 Validation of an Observational Screening Measure of Red Flags of ASD at 18-24 Months D. Tracy[1], W. Guthrie[2], S. T. Stronach[3], C. Nottke[2] and A. M. Wetherby[2], (1)Florida State University, Tallahassee, FL, (2)Florida State University Autism Institute, Tallahassee, FL, (3)Speech-Language-Hearing Sciences, University of Minnesota-Twin Cities, Minneapolis, MN

124 138.124 What Could be Driving Phenotypic Heterogeneity? Deep Characterization of Young Children with and without Autism Spectrum Disorder from the Study to Explore Early Development (SEED) J. Pandey[1], J. A. Pinto-Martin[2], J. Chittams[3], L. A. Croen[4], M. D. Fallin[5], A. Thompson[3], E. Moody[6], D. Reinhartsen[7], A. M. Reynolds[8], L. D. Wiggins[9], G. C. Windham[10], J. S. Woodford[11], L. M. Young[12] and S. E. Levy[13], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Biobehavioral Health Sciences, University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (5)Mental Health & Wendy Klag Center for Autism and Developmental Disabilities, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6)13121 E 17th Avenue, JFK Partners/University of Colorado School of Medicine, Aurora, CO, (7)University of North Carolina, Greensboro, NC, (8)Department of Pediatrics, University of Colorado Denver School of Medicine, Aurora, CO, (9)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (10)CA Department of Public Health, Richmond, CA, (11)College of Education and Human Development, University of Delaware, Newark, DE, (12)U Penn, Philadelphia, PA, (13)Developmental & Behavioral Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA

125 138.125 "Making Sense of It All." Sensory-Processing Sensitivity, Negative Affect, Extraversion and Effortful Control in Children with and without ASD S. D. Boterberg, H. Roeyers and P. Warreyn, Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium

Poster Session
139 - Interventions Pharmacologic
11:30 AM - 1:30 PM - Imperial Ballroom

126 139.126 A Randomized, Placebo Controlled Trial of Omega-3 Fatty Acids in the Treatment of Young Children with Autism D. Mankad[1], A. Dupuis[2], S. Smile[3], W. Roberts[4], J. A. Brian[5], T. B. Lui[6], L. Genore[7], D. Zaghloul[8], A. Iaboni[6], M. Marcon[9] and E. Anagnostou[10], (1)Holland Bloorview Kids Rehabilitation Hospital, Scarborough, ON, Canada, (2)Clinical Research Services, The Hospital for Sick Children, Toronto, ON, Canada, (3)Developmental Paediatrics, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Integrated Services for Autism and Neurodevelopmental Disorders, Toronto, ON, Canada, (5)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (6)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (7)Autism Research Centre, Bloorview Research Institute, Toronto, ON, Canada, (8)Autism Research Centrre, Bloorview Research Institute, Toronto, ON, Canada, (9)Pediatrics, The Hospital for Sick Children, Toronto, ON, Canada, (10)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

127 139.127 Atomoxetine Tolerability and Adverse Events in Autism Spectrum Disorders in the Multisite Charts Study J. A. Hellings[1], S. L. Hyman[2], B. L. Handen[3], T. Smith[4], P. Corbett-Dick[5], R. Tumuluru[6], L. E. Arnold[7] and M. G. Aman[8], (1)Psychiatry, The Ohio State University Nisonger Center McCampbell Hall, Columbus, OH, (2)Pediatrics, University of Rochester School of Medicine, Rochester, NY, (3)University of Pittsburgh School of Medicine, Pittsburgh, PA, (4)601 Elmwood Ave, Box 671, University of Rochester, Rochester, NY, (5)Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (6)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (7)Nisonger Center, The Ohio State University, Columbus, OH, (8)The Nisonger Center UCEDD, Ohio State University, Columbus, OH

128 139.128 Atomoxetine, Placebo, and Parent Training in Autism T. Smith[1], B. L. Handen[2], M. G. Aman[3], L. E. Arnold[4], S. L. Hyman[5], X. Pan[6] and K. A. Buchan-Page[4], (1)601 Elmwood Ave, Box 671, University of Rochester, Rochester, NY, (2)Psychiatry, University of Pittsburgh Medical Center, Pittsburgh, PA, (3)The Nisonger Center UCEDD, Ohio State University, Columbus, OH, (4)Nisonger Center, The Ohio State University, Columbus, OH, (5)Pediatrics, University of Rochester School of Medicine, Rochester, NY, (6)Center for Biostatistics, The Ohio State University, Columbus, OH

WITHDRAWN

129 139.129 Citalopram Treatment of Young Children with Autism Spectrum Disorder (ASD): Correlation with Maternal History of Depression A. W. Zimmerman[1], K. Singh[2] and S. L. Connors[3], (1)55 Lake Ave. N, UMass Medical School, Worcester, MA, (2)Pediatrics, UMass Medical School, Worcester, MA, (3)Pediatrics and Medicine, MGH Lurie Center for Autism, Lexington, MA

130 139.130 Developing and Testing an Intervention to Reduce Challenging Behaviors within Community and School-Based Mental Health Services L. I. Brookman-Frazee[1], W. Ganger[2], M. Dyson[3], C. Chlebowski[2], M. Baker-Ericzen[4] and N. Stadnick[3], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)University of California, San Diego, San Diego, CA, (4)Child and Adolescent Services Research Center, Rady Children's Hospital, San Diego, San Diego, CA

131 139.131 Effect of Treatment with OMEGA-3 Polyunsaturated Fatty Acids on Behavioural Measures in Children and Adolescents with Autism Spectrum Disorders C. Moreno[1], R. Calvo Escalona[2], S. Gutierrez[3], M. Graell[3], J. Romo[1], M. L. Dorado[1], M. Giraldez[4], C. Llorente[1], C. Arango[1] and M. Parellada[1], (1)Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañon, IiSGM., Hospital General Universitario Gregorio Marañón, Madrid, Spain, (2)Hospital Clinic of Barcelona, Barcelona, Spain, (3)Hospital Niño Jesús. Servicio de Psiquiatría., Madrid, Spain, (4)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañññon, Madrid, Spain

132 139.132 Effect of Two Doses of Basimglurant on Behavioral Symptoms in Adolescent and Adult Patients with Fragile X Syndrome; Results from Fragxis, a Double-Blind, Placebo Controlled Study J. Quiroz[1], E. Wasef[1], C. Y. Wong[1], A. Kurian[1], D. Deptula[1], L. Banken[2], M. Rabbia[1], P. Fontoura[2] and L. Santarelli[2], (1)Roche Innovation Center New York, New York, NY, (2)Roche Innovation Center Basel, Basel, Switzerland

133 139.133 Effectiveness of Over-the-counter Therapies for Autism S. Bittker, Sole Researcher, Darien, CT

134 139.134 From Experimental to Investigational: The Potential for Eye Tracking As a Biomarker for Outcome in Clinical Trials F. Shic[1], M. del Valle Rubido[2], E. Hollander[3], S. S. Jeste[4], J. T. McCracken[5], L. Scahill[6], O. Khwaja[7], L. Squassante[8], S. Sadikhov[9], J. Dukart[10], E. S. Kim[11], M. Perlmutter[1], E. Sharer[12], R. Paul[13], R. J. Jou[14], M. C. Lyons[11], T. Apelian[15], G. Berlin[16], C. J. Ferretti[16], A. Gavaletz[14], R. L. Loomis[17], J. N. Cowen[4], T. Shimizu[18], B. P. Taylor[19], C. A. Wall[11], R. Noone[20], L. N. Antar[16], L. Boak[21], P. Fontoura[22] and D. Umbricht[23], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Roche, Basel, Switzerland, (3)Dept. of Psychiatry and Behavioral Sciences, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (4)UCLA, Los Angeles, CA, (5)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (6)Pediatrics, Marcus Autism Center, Atlanta, GA, (7)F. Hoffmann - La Roche AG, Basel, Switzerland, (8)Product Development, Biometrics, F-Hoffmann-La Roche Ltd., Basel, Switzerland, (9)Roche Innovation Center, Roche Pharmaceutical Research and Early Development, Basel, Switzerland, (10)Roche Pharmaceutical Research and Early Development, Basel, Switzerland, (11)Yale University, New Haven, CT, (12)Kennedy Krieger Institute, Baltimore, MD, (13)Sacred Heart University, Fairfield, CT, (14)Child Study Center, Yale University, New Haven, CT, (15)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute CAN Clinic, Los Angeles, CA, (16)Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (17)Yale University Child Study Center, New Haven, CT, (18)Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA, (19)Dept. Of Psychiatry and Behavioral Sciences, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY, (20)Psychiatry, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (21)F. Hoffmann-La Roche AG, Basel, BS, Switzerland, (22)Roche Innovation Center Basel, Basel, Switzerland, (23)NORD, F. Hoffmann - La Roche AG, Basel, Switzerland

135 139.135 Glutathione, Vitamin C and Cysteine Use in Children with Autism and Severe Behavior Concerns: A Double Blind, Placebo-Controlled Crossover Study P. G. Williams, University of Louisville, Louisville, KY

136 139.136 Irritability, Agitation and Agression in Persons with ASD: The ATN Pathway for Evaluation and Individualized Treatment Planning A. Whitaker[1], K. Morton[2], R. A. Vasa[3], A. Y. Hardan[4], L. K. Fung[5], A. A. Nozzolillo[6], R. Mahajan[7], P. Bernal[8], J. Veenstra-Vander Weele[9], D. L. Coury[10], A. Silberman[9] and A. Wolfe[11], (1)Psychiatry & Behavioral Sciences, Columbia University, New York, NY, (2)Psychiatry & Behavioral Sciences, New York Presbyterian Hospital, New York, NY, (3)Johns Hopkins School of Medicine, Baltimore, MD, (4)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (5)Stanford University, Palo Alto, CA, (6)Massachusetts General Hospital, Boston, MA, (7)Psychiatry, Kennedy Krieger Institute/Johns Hopkins University SOM, Baltimore, MD, (8)Psychiatry, Children Health Council, Palo Alto, CA, (9)Columbia University, New York, NY, (10)Nationwide Children's Hospital, Columbus, OH, (11)Center for Child and Adolescent Health Research & Policy, Massachussetts General Hospital, Boston, MA

137 139.137 Maladaptive Behavior in Autism Spectrum Disorder: The Role of Emotion Experience and Emotion Regulation A. Y. Hardan[1], A. C. Samson[2] and J. J. Gross[3], (1)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (2)Department of Psychology, Stanford University, Menlo Park, CA, (3)Department of Psychology, Stanford University, Stanford, CA

138 139.138 Meta-Analysis of Pharmacotherapies for Treating Irritability, Agitation and Aggression in ASD L. K. Fung[1], R. Mahajan[2], A. A. Nozzolillo[3], P. Bernal[4], A. Krasner[5], B. Jo[6], D. L. Coury[7], A. Whitaker[8], J. Veenstra-Vander Weele[5] and A. Y. Hardan[9], (1)Stanford University, Palo Alto, CA, (2)Psychiatry, Kennedy Krieger Institute/Johns Hopkins University SOM, Baltimore, MD, (3)Massachusetts General Hospital, Boston, MA, (4)Psychiatry, Children Health Council, Palo Alto, CA, (5)Columbia University, New York, NY, (6)Psychiatry, Stanford University, Stanford, CA, (7)Nationwide Children's Hospital, Columbus, OH, (8)Psychiatry & Behavioral Sciences, Columbia University, New York, NY, (9)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

139 139.139 Nutritional and Dietary Interventions for Autism Spectrum Disorder – a Randomized, Controlled 12-Month Trial of a Combination of Six Treatments J. Adams, Arizona State University, Tempe, AZ

140 139.140 Pharmacological Modulation of Excitatory/Inhibitory Balance in Autism Spectrum Disorder L. A. Ajram[1], J. Horder[2], M. A. Mendez[3], A. Galanopoulos[4], L. Brennan[4], R. Wichers[5], D. J. Lythgoe[6], S. C. Williams[7], D. G. Murphy[5] and G. M. McAlonan[5], (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Kings College London, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (4)Institute of Psychiatry, Kings College London, London, United Kingdom, (5)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (6)King's College London, London, United Kingdom, (7)Neuroimaging, Centre for Neuroimaging Sciences, Institute of Psychiatry, King's College London, London, United Kingdom

141 139.141 Physician Practices in Management of Second Generation Antipsychotic (SGA) Medications and Their Side Effects in Children and Adolescents with Autism Spectrum Disorders D. L. Coury[1], E. S. Matheson[2], R. Baum[2] and P. Vora[2], (1)Nationwide Children's Hospital, Columbus, OH, (2)The Ohio State University College of Medicine, Columbus, OH

142 139.142 Preliminary Characterization of Medication Use in a Multicenter Sample of Pediatric Inpatients with Autism Spectrum Disorder E. V. Pedapati[1], L. K. Wink[1], C. Erickson[1], R. Gabriels[2], C. A. Beresford[2], D. Kaplan[3], E. M. Morrow[4] and M. Siegel[5], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Children's Hospital Colorado, Aurora, CO, (3)Child and Adolescent Neuropsychiatric Inpatient Unit at, Baltimore, MD, (4)Molecular Biology, Cell Biology and Biochemistry; Psychiatry and Human Behavior, Brown University/Bradley Hospital, Providence, RI, (5)Maine Medical Center Research Institute, Westbrook, ME

143 139.143 Repetitive Transcranial Magnetic Stimulation over the Dorsolateral Prefrontal Cortex and Posterior Superior Temporal Sulcus Improves Core Symptoms of Autism H. C. Ni[1,2], J. Hung[3] and Y. Z. Huang[3], (1)National Taiwan University Hospital, Taipei, Taiwan, (2)Psychiatry, Chang Gung Memorial Hospital, Taoyuan, Taiwan, (3)Neurology, Chang Gung Memorial Hospital, Taoyuan, Taiwan

144 139.144 Results from a Phase I Proof-of-Mechanism Study with a Vasopressin 1a Receptor Antagonist in ASD D. Umbricht[1], M. del Valle Rubido[2], F. Shic[3], J. T. McCracken[4], L. Scahill[5], O. Khwaja[6], L. Squassante[7], L. Boak[8], F. Bolognani[9], P. Fontoura[10], C. A. Wall[11], R. J. Jou[12], R. L. Loomis[13], M. C. Lyons[11], A. Gavaletz[12], J. N. Cowen[14], T. Apelian[15], S. S. Jeste[14], C. J. Ferretti[16], B. P. Taylor[17], G. Berlin[16], R. Noone[18], L. N. Antar[16] and E. Hollander[19], (1)NORD, F. Hoffmann - La Roche AG, Basel, Switzerland, (2)Roche, Basel, Switzerland, (3)Child Study Center, Yale University School of Medicine, New Haven, CT, (4)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (5)Pediatrics, Marcus Autism Center, Atlanta, GA, (6)F. Hoffmann - La Roche AG, Basel, Switzerland, (7)Product Development, Biometrics, F-Hoffmann-La Roche Ltd., Basel, Switzerland, (8)F. Hoffmann-La Roche AG, Basel, BS, Switzerland, (9)F. Hoffmann - La Roche AG, Basel, BL, Switzerland, (10)Roche Innovation Center Basel, Basel, Switzerland, (11)Yale University, New Haven, CT, (12)Child Study Center, Yale University, New Haven, CT, (13)Yale University Child Study Center, New Haven, CT, (14)UCLA, Los Angeles, CA, (15)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute CAN Clinic, Los Angeles, CA, (16)Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (17)Dept. Of Psychiatry and Behavioral Sciences, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY, (18)Psychiatry, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (19)Dept. of Psychiatry and Behavioral Sciences, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY

145 139.145 Safety and Exploratory Efficacy of Basimglurant in Pediatric Patients with Fragile X Syndrome: A Randomized, Double-Blind, Placebo-Controlled Study J. Quiroz[1], C. Y. Wong[1], E. Wasef[1], D. Deptula[1], L. Banken[2], M. Rabbia[1], P. Fontoura[2] and L. Santarelli[2], (1)Roche Innovation Center New York, New York, NY, (2)Roche Innovation Center Basel, Basel, Switzerland

146 ▸ 139.146 Study of Beliefs of Parents of Children with Autism Regarding Traditional Medicine in 4 Middle-East Countries M. Habash[1] and M. Ftaiha[2], (1)Leeds Becket University, Ottawa, ON, Canada, (2)Special Education, Abu Dhabi University, Al-Ain, United Arab Emirates

147 139.147 The Treatment of Refreactory Agression and Self Abusive Behaviors with Proporanolol E. B. London, Psychology, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY

148 139.148 Trichuris Suis Ova (TSO) As an Immune-Inflammatory Treatment for Repetitive Behaviors in ASD E. Hollander[1], C. J. Ferretti[2], B. P. Taylor[3], R. Noone[4], E. Racine[4] and E. Doernberg[4], (1)Dept. of Psychiatry and Behavioral Sciences, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (2)Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (3)Dept. Of Psychiatry and Behavioral Sciences, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY, (4)Psychiatry, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY

149 139.149 Uptake 2 Transporter Blockade Can Ameliorate Sociability Deficits G. G. Gould[1], C. M. Smolik[1], W. Koek[2], M. A. Javors[3] and L. C. Daws[1], (1)Physiology, The University of Texas Health Science Center at San Antonio, San Antonio, TX, (2)Psychiatry, The University of Texas Health Science Center at San Antonio, San Antonio, TX, (3)Psychiatry, The University of Texas Health Science Center, San Antonio, TX

Poster Session
140 - Communication and Language
11:30 AM - 1:30 PM - Imperial Ballroom

150 140.150 A Study of Siblings of Individuals with ASD: Comparison of Pragmatic Language Ability V. Y. Kang[1], K. Levesque[1], A. Anderson[1], A. Kresse[2], S. Faja[3], E. E. Neuhaus[4], R. Bernier[1] and S. J. Webb[2,5], (1)University of Washington, Seattle, WA, (2)Seattle Children's Research Institute, Seattle, WA, (3)Boston Children's Hospital/Harvard School of Medicine, Boston, MA, (4)PO Box 5371, Seattle Children's Research Institute, Seattle, WA, (5)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA

151 140.151 ASD and FXS: Vocalization Differentiation in the First Year of Life K. M. Belardi[1], E. Patten[2], L. R. Watson[3], B. Crais[1], G. T. Baranek[4] and D. K. Oller[5], (1)University of North Carolina, Chapel Hill, NC, (2)Department of Audiology and Speech Pathology, University of Tennessee Health Science Center, Knoxville, TN, (3)Division of Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria

152 140.152 An Examination of Narrative Abilities in Individuals with ASD and Their Family Members M. A. Lee[1], N. M. Heckel[1], P. C. Gordon[2], C. Stiehl[1] and M. C. Losh[1], (1)Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, (2)Psychology, University of North Carolina-Chapel Hill, Chapel Hill, NC

153 140.153 Attentional Cues to Support Word Learning Among Children with ASD and Typically Developing Children E. Tenenbaum, D. Amso and S. J. Sheinkopf, Brown University, Providence, RI

154 140.154 Characteristics of Speech Motor Functions in Two Low-Functioning Individuals with Autism S. E. Yoo[1], A. Lazar[1] and B. Gordon[2], (1)Neurology, Cognitive Neuroscience and Neuropsychology, Johns Hopkins University School of Medicine, Baltimore, MD, (2)Department of Cognitive Science, Johns Hopkins University, Baltimore, MD

WITHDRAWN

155 140.155 Characterizing the Minimally Verbal: A Pilot Investigation of the Low-Verbal Investigatory Screener for Autism (L-VIS-A) E. Tenenbaum[1], I. M. Eigsti[2], A. Naples[3] and G. Righi[4], (1)Brown University, Providence, RI, (2)Psychology, University of Connecticut, Storrs, CT, (3)Yale University, New Haven, CT, (4)Psychiatry and Human Behavior, Alpert Medical School of Brown University, Providence, RI

156 140.156 Computational Semantic Analysis of Restrictive and Repetitive Behavior in Language Samples of Children with Autism M. Rouhizadeh[1], R. Sproat[2] and J. van Santen[1], (1)Center for Spoken Language Understanding, Oregon Health & Science University, Portland, OR, (2)Google, Inc., New York, NY

157 140.157 Detailed Gesture Analysis Reveals Relationships of Gestures with Language and ASD Risk in Children with Language Delays S. S. Manwaring[1], L. Swineford[2], P. Albert[2] and A. Thurm[2], (1)Communication Sciences and Disorders, University of Utah, Salt Lake City, UT, (2)Pediatrics & Developmental Neuroscience, National Institute of Mental Health, Bethesda, MD

158 140.158 Differences in Fingerspelling Praxis Performance Between Deaf Children with Autism and Deaf Typically Developing Children Between 5 and 14 Years of Age C. K. Woxholdt[1], S. Srinivasan[2], A. N. Bhat[1,2,3] and A. Shield[4,5], (1)Department of Kinesiology, University of Connecticut, Storrs, CT, (2)Department of Physical Therapy, University of Delaware, Newark, DE, (3)Center for Health, Intervention & Prevention, Department of Psychology, University of Connecticut, Storrs, CT, (4)Department of Psychological & Brain Sciences, Boston University, Boston, MA, (5)Department of Communication Sciences & Disorders, Emerson College, Boston, MA

159 140.159 Distinct Language Improvements of Minimally Verbal Children with ASD inside and Outside Episodes of Engagement As Response to Treatment A. C. Holbrook[1], J. Hopkins[2] and C. Kasari[3], (1)Graduate School of Education and Information Studies, University of California, Los Angeles, Los Angeles, CA, (2)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (3)UCLA Center for Autism Research & Treatment, Westwood, CA

160 140.160 Does Parental Input during Joint Attention Differ for TD Children and Children with ASD? E. K. McCaffrey[1], A. Abdelaziz[2], D. A. Fein[1] and L. Naigles[1], (1)University of Connecticut, Storrs, CT, (2)Literature, Culture and Languages (LCL), University of Connecticut, Storrs, CT

161 140.161 Dynamic Assessment of the Looking Patterns of Toddlers with ASD during Teaching A. Bean Ellawadi[1], D. A. Fein[2] and L. Naigles[3], (1)The Ohio State University, Columbus, OH, (2)Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT

162 140.162 Early Receptive and Expressive Language Skills: A Joint Attention Intervention for Young Children with ASD A. M. Mastergeorge[1] and C. Parikh[1,2], (1)Family Studies and Human Development, University of Arizona, Tucson, AZ, (2)University of Arizona, Tucson, AZ

163 140.163 Effective Way to Improve Competence in Answering Questions Among Children with ASD: Repeat Your Question or Gesture? H. M. Chiu[1], H. C. A. Chui[1], M. K. Y. Wong[2], M. M. K. Chan[1], W. C. So[3] and C. K. Y. Lam[1], (1)The Chinese University of Hong Kong, Hong Kong, Hong Kong, (2)Department of Educational Psychology, The Chinese University of Hong Kong, Hong Kong, Hong Kong, (3)The Chinese University of Hong Kong, The Chinese University of Hong Kong, Hong Kong, Hong Kong

164 140.164 Examining the Spontaneous Communication of Minimally Verbal Children with ASD in Supported Versus Unsupported Contexts **E. Fuller**[1], J. Heidlage[1], A. P. Kaiser[2] and C. Kasari[3], (1)Vanderbilt University, Nashville, TN, (2)Special Education, Vanderbilt University, Nashville, TN, (3)UCLA Center for Autism Research & Treatment, Westwood, CA

165 140.165 Expectations of Social Isolation for Children with HFA **S. D. Lovell**[1], A. Ramakrishna[2], D. Hedley[1], S. Narayanan[3] and R. B. Grossman[4,5], (1)FACElab, Emerson College, Boston, MA, (2)University of Southern California, Los Angeles, CA, (3)Signal Analysis and Interpretation Lab (SAIL), University of Southern California, Los Angeles, CA, (4)Communication Sciences and Disorders, Emerson College, Boston, MA, (5)Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Worcester, MA

166 140.166 Missing the Mark: Dynamic Differences in the Facial Expressions of Children with HFA **R. B. Grossman**[1,2,3], T. Guha[4], Z. Yang[4], D. Hedley[2] and S. Narayanan[5], (1)Communication Sciences and Disorders, Emerson College, Boston, MA, (2)FACElab, Emerson College, Boston, MA, (3)Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Worcester, MA, (4)University of Southern California, Los Angeles, CA, (5)Signal Analysis and Interpretation Lab (SAIL), University of Southern California, Los Angeles, CA

167 140.167 Freespeech: Large-Scale Data from a New AAC Application Characterizes Usage for Young Children with ASD – One Size Does Not Fit All **L. Boccanfuso**[1], J. C. Snider[2], E. Schoen Simmons[3], M. C. Lyons[1], E. S. Kim[2], C. A. Wall[3], L. Whitaker[4], M. Perlmutter[2], K. Konwar[5], R. Schrock[6] and F. Shic[2], (1)Yale University, New Haven, CT, (2)Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Child Study Center, Yale University, New Haven, CT, (4)Yale University School of Medicine, New Haven, CT, (5)University of British Columbia, Vancouver, BC, Canada, (6)Keysight Technologies, Inc, Santa Rosa, CA

168 140.168 Gender Differences in Communication in School Aged Children with Autism Spectrum Disorder (ASD): Preliminary Results **O. Conlon**[1], J. Volden[1], P. Szatmari[2], S. E. Bryson[3], E. J. Fombonne[4], P. Mirenda[5], I. M. Smith[6], T. Vaillancourt[7], C. Waddell[8], L. Zwaigenbaum[1], T. A. Bennett[9], S. Georgiades[10], E. K. Duku[9] and M. Elsabbagh[11], (1)University of Alberta, Edmonton, AB, Canada, (2)University of Toronto, Toronto, ON, Canada, (3)Autism Research Centre, Dalhousie/IWK Health Centre, Halifax, NS, Canada, (4)Oregon Health & Science University, Portland, OR, (5)University of British Columbia, Vancouver, BC, Canada, (6)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)Faculty of Health Sciences, Simon Fraser University, Vancouver, BC, Canada, (9)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (10)McMaster University, Hamilton, ON, Canada, (11)Department of Psychiatry, McGill University, Montreal, QC, Canada

169 140.169 How Multitalker Environments Affect Speech Understanding in Autism **L. C. Anderson**, E. J. Wood, E. Redcay and R. S. Newman, University of Maryland, College Park, MD

170 140.170 Implicit Measures of Receptive Vocabulary Knowledge in Low-Functioning Individuals with Autism **E. L. Coderre**[1], M. Chernenok[1], J. O'Grady[1], L. V. Bosley[1], B. Gordon[1,2] and K. Ledoux[1], (1)Cognitive Neurology/Neuropsychology, Department of Neurology, Johns Hopkins University, Baltimore, MD, (2)Department of Cognitive Science, Johns Hopkins University, Baltimore, MD

171 140.171 Improved Communication Outcomes Using a Socially Assistive Robot **L. Boccanfuso**[1], S. Scarborough[2], A. V. Hall[3], R. K. Abramson[4], H. H. Wright[5] and J. M. O'Kane[6], (1)Child Study Center, Technology and Innovation Laboratory, Yale University, New Haven, CT, (2)Department of Communication Sciences and Disorders, University of South Carolina Speech & Hearing Research Center, Columbia, SC, (3)SC Department of Disabilities and Special Needs, Columbia, SC, (4)Department of Neuropsychiatry and Behavioral Science, University of South Carolina, School of Medicine, Columbia, SC, (5)Department of Neuropsychiatry and Behavioral Sciences, University of South Carolina, Columbia, SC, (6)Department of Computer Science and Engineering, University of South Carolina, Columbia, SC

172 140.172 Item Response Theory Analysis Suggests Word-Level Lexical Differences in Children with Autism at 12 Months of Age: A Multisite Infant-Sibling Study **D. C. Lazenby**[1], G. Sideridis[1], N. L. Huntington[1], P. S. Dale[2], M. F. Prante[3], J. M. Iverson[4], K. R. Dobkins[5], S. Curtin[6], L. J. Carver[5], N. Akshoomoff[7], L. Henkel[6], D. Tagavi[8], C. A. Nelson[1] and H. Tager-Flusberg[8], (1)Division of Developmental Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA, (2)Speech & Hearing Sciences, University of New Mexico, Albuquerque, NM, (3)Utah State University, Logan, UT, (4)Psychology, University of Pittsburgh, Pittsburgh, PA, (5)Psychology, University of California, San Diego, La Jolla, CA, (6)University of Calgary, Calgary, AB, Canada, (7)Psychiatry and Center for Human Development, University of California, San Diego, La Jolla, CA, (8)Boston University, Boston, MA

173 140.173 Language Disfluency and Cognitive Load in Children with ASD **S. Torabian**[1], L. Naigles[2], N. S. Alpers[3], N. S. McIntyre[4], L. E. Swain-Lerro[5] and P. C. Mundy[6], (1)University of California Davis, Los Altos Hills, CA, (2)University of Connecticut, Storrs, CT, (3)Psychology, University of Connecticut, Storrs, CT, (4)School of Education, UC Davis, Davis, CA, (5)School of Education, UC Davis, Santa Rosa, CA, (6)MIND Institute and School of Education, UC Davis, Sacramento, CA

174 140.174 Lexical Characteristics Account for Vocabulary Size in Toddlers with ASD: A Comparison of Comprehension and Production **S. T. Kover**[1] and S. Ellis-Weismer[2], (1)Department of Speech and Hearing Sciences, University of Washington, Seattle, WA, (2)University of Wisconsin-Madison, Madison, WI

175 140.175 Native Exposure to Sign Language Does Not Attenuate the Social-Cognitive Deficits of ASD **A. Shield**[1,2], A. J. Martin[3] and J. Pyers[4], (1)Psychological and Brain Sciences, Boston University, Boston, MA, (2)Communication Sciences and Disorders, Emerson College, Boston, MA, (3)Psychology, Hunter College, New York, NY, (4)Psychology, Wellesley College, Wellesley, MA

176 140.176 Lexical Semantic Impairments in ASD Are Associated with Difficulties in Serial Order Memory **E. Jones**[1], D. M. Bowler[2] and S. B. Gaigg[2], (1)Birkbeck College, University of London, London, United Kingdom, (2)Autism Research Group, City University London, London, United Kingdom

177 ▸ 140.177 Linguistic Aspects of Prosody Is Intact in Children with Autism Spectrum Disorders **A. Kondo**[1], K. Nishikawa[2], T. Konishi[3], H. Takahashi[4], Y. Kamio[5] and R. Mazuka[6], (1)The United Graduate School of Education, Tokyo Gakugei University, Tokyo, Japan, (2)Laboratory for Language Development, Brain Science Institute,RIKEN, Saitama, Japan, (3)Graduate School of International Culture and Communication Studies, Waseda University, Tokyo, Japan, (4)National Center of Neurology and Psychiatry; National Institute of Mental Health; Department of Child and Adolescent Mental Health, Ogawahigashi-cho, Tokyo, Japan, (5)National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health, Tokyo 187-8553, Japan, (6)Laboratory for Language Development, Brain Science Institute, RIKEN, Saitama, Japan

178 140.178 Familiar Speech Sounds Elicit Reduced Brain Activity in the Reward Circuit and Amygdala in Children with Autism D. A. Abrams[1], T. Chen[1], P. Odriozola[1], K. Cheng[1], S. Ryali[1] and V. Menon[2], (1)Stanford University, Palo Alto, CA, (2)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

179 140.179 Moderators of Language Outcomes in Randomized Controlled Esdm Intervention Trial for Toddlers with Autism K. A. Sullivan[1], W. L. Stone[2], J. Munson[3], S. J. Rogers[4] and G. Dawson[5], (1)Child and Adolescent Psychiatry, The Child Study Center at NYU Langone Medical Center, New York, NY, (2)Psychology, University of Washington, Seattle, WA, (3)University of Washington, Seattle, WA, (4)University of California at Davis, Sacramento, CA, (5)Psychiatry and Behavioral Sciences, Duke University, Durham, NC

180 140.180 Mutual Exclusivity in Young Children with ASD C. E. Venker[1], M. B. Winn[1], S. Ellis-Weismer[2], J. Saffran[3] and J. Edwards[4], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)University of Wisconsin-Madison, Middleton, WI, (3)University of Wisconsin-Madison, Madison, WI, (4)Communication Sciences and Disorders, University of Wisconsin, Madison, WI

181 140.181 Lexical Processing By Toddlers with ASD S. Ellis-Weismer[1], E. K. Haebig[2], J. Edwards[1], J. Saffran[1] and C. Venker[3], (1)University of Wisconsin-Madison, Madison, WI, (2)Communication Sciences and Disorders, University of Wisconsin-Madison, Madison, WI, (3)Waisman Center, University of Wisconsin-Madison, Madison, WI

182 140.182 Parent-Child Mutual Responsiveness, Language Development, and Peer Relationships in Young Children with Autism Spectrum Disorder A. Rodda[1], A. M. Estes[2] and J. Munson[1], (1)University of Washington, Seattle, WA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA

183 140.183 Perceptual Binding and Audiovisual Speech Perception in Autism Spectrum Disorders R. A. Stevenson[1], M. Segers[2], B. L. Ncube[3], S. Z. Sun[1], N. D. Hazlett[1], J. D. N. Ruppel[1], S. Ferber[1] and M. D. Barense[1], (1)Department of Psychology, University of Toronto, Toronto, ON, Canada, (2)Psychology, York University, Toronto, ON, Canada, (3)York University, Toronto, ON, Canada

184 140.184 Pitch Perception in Autism Is Associated with Superior Non-Verbal Abilities M. Sharda[1], N. E. Foster[1], R. Chowdhury[2], E. Germain[1], A. Tryfon[2], T. Ouimet[1], K. A. R. Doyle-Thomas[3], E. Anagnostou[3], K. L. Hyde[2,4] and N. A. Imaging Group[5], (1)International Laboratory for Brain Music and Sound Research (www.brams.org), University of Montreal, Montreal, QC, Canada, (2)International Laboratory for Brain Music and Sound Research (brams.org), Université de Montréal, Montreal, QC, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Montreal Neurological Institute, McGill University, Montréal, QC, Canada, (5)http://www.neurodevnet.ca/research/asd, Vancouver, BC, Canada

185 140.185 Quality of Communication in Young Adults with Autism during a Simulated Employment Interview W. Mitchell and J. Volden, University of Alberta, Edmonton, AB, Canada

186 140.186 Quantifying the Use of Gestures in Autism Spectrum Disorder A. Lambrechts[1], K. Yarrow[2], K. L. Maras[3], R. Fusaroli[4] and S. B. Gaigg[5], (1)City University London, London, England, United Kingdom, (2)Psychology, City University London, London, United Kingdom, (3)Psychology, University of Bath, Bath, United Kingdom, (4)Center of functionally Integrative Neuroscience, Aarhus University Hospital, Aarhus, Denmark, (5)Autism Research Group, City University London, London, United Kingdom

187 140.187 Quantitative Analysis of Disfluency in Children with ASD K. Gorman[1], H. MacFarlane[1,2], R. Ingham[1] and J. van Santen[1], (1)Center for Spoken Language Understanding, Oregon Health & Science University, Portland, OR, (2)Reed College, Portland, OR

188 140.188 Relationship Between Autism Spectrum Disorder Education and Clinical Decision-Making in Early Intervention S. T. Stronach[1] and J. L. Schmedding-Bartley[2], (1)Speech-Language-Hearing Sciences, University of Minnesota-Twin Cities, Minneapolis, MN, (2)Communication Science and Disorders, Grand Valley State University, Grand Rapids, MI

189 140.189 Relationship Between Handedness and Language Function in Autism L. M. McCue[1], A. R. McMichael[2], L. H. Flick[1], D. L. Williams[3] and T. E. Conturo[4], (1)St. Louis University, St. Louis, MO, (2)Washington University, St Louis, MO, (3)Duquesne University, Pittsburgh, PA, (4)Washington University, St. Louis, MO

190 140.190 Say What?: Toddlers' Vocabulary Growth Trajectories Differ By Word Features L. DePolo[1], J. Parish-Morris[2], J. McCleery[1], L. Bateman[1], S. Thomas[1], S. J. Paterson[3], J. Pandey[3], P. Kostopoulos[4], A. Estes[5], K. N. Botteron[6], H. C. Hazlett[7], L. Zwaigenbaum[8], J. Piven[9] and R. T. Schultz[3], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (5)Speech and Hearing Sciences, University of Washington, Seattle, WA, (6)Washington University School of Medicine in St. Louis, St. Louis, MO, (7)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (8)University of Alberta, Edmonton, AB, Canada, (9)University of North Carolina at Chapel Hill, Chapel Hill, NC

191 140.191 Some Wh-Questions Really Are Hard for Children with ASD to Understand M. Jyotishi[1], D. A. Fein[1] and L. Naigles[2], (1)Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT

192 140.192 Spoken Language in School-Aged Children with ASD and ADHD in a Virtual, Public Speaking Task N. S. Alpers[1], S. Torabian[2], N. S. McIntyre[3], L. Naigles[4] and P. C. Mundy[5], (1)University of Connecticut, Willimantic, CT, (2)University of California Davis, Los Altos Hills, CA, (3)School of Education, UC Davis, Davis, CA, (4)University of Connecticut, Storrs, CT, (5)MIND Institute and School of Education, UC Davis, Sacramento, CA

193 ▸ 140.193 Study of Communication Deficits in the Siblings of Children with Autism Spectrum Disorders Using the Children's Communication Checklist-2: A Pilot Initiative from India S. S. Meera[1], S. C. Girimaji[1], S. P. Seshadri[1], M. Philip[1] and N. Shivashankar[2], (1)NIMHANS, Bangalore, India, (2)Dept. of Speech Pathology and Audiology, NIMHANS, Bangalore, India

194 140.194 Testing the Validity of the Pictorial Infant Communication Scale in Preschool-Aged Children with Autism Spectrum Disorder M. V. Parlade[1], C. S. Ghilain[1], T. D. Owen[1], H. L. Schneider[1], A. Gutierrez[2] and M. Alessandri[1], (1)Psychology, University of Miami, Coral Gables, FL, (2)Psychology, Florida International University, Miami, FL

195 ▸ 140.195 Thai Lexical Tones in Children with Autism Spectrum Disorder T. Thongseiratch[1], J. Chuthapisith[2] and R. Roengpitya[3], (1)Department of Pediatrics, Faculty of Medicine, Prince of Sonkla University, Songkla, Thailand, (2)Department of Paediatrics, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, (3)Department of English, Faculty of Arts, Mahidol University, Bangkok, Thailand

196 140.196 The Ability to Use a Picture As a Symbol in Children with ASD J. Maljaars[1], E. M. Scholte[2], I. A. van Berckelaer-Onnes[3] and I. Noens[1], (1)Parenting and Special Education Research Unit, KU Leuven, Leuven, Belgium, (2)Leiden University, Leiden, Netherlands, (3)Social and Behavioral Sciences, Leiden University, Leiden, Netherlands

197 140.197 The Autism Inpatient Collection (AIC): Problem Behaviors and Communication Difficulties D. L. Williams[1], K. A. Smith[2], C. A. Mazefsky[3], R. Gabriels[4], C. Peura[5] and M. Siegel[6], (1)Duquesne University, Pittsburgh, PA, (2)Maine Medical Center Research Institute, Portland, ME, (3)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (4)Children's Hospital Colorado, Aurora, CO, (5)Spring Harbor Hospital, Westbrook, ME, (6)Maine Medical Center Research Institute, Westbrook, ME

198 140.198 The Development of Co-Speech Gesture and Its Semantic Integration with Speech in Six- to 12-Year-Old Children with Autism Spectrum Disorders W. C. So[1], M. K. Y. Wong[1], M. M. K. Chan[2] and R. H. Y. Au[2], (1)Department of Educational Psychology, The Chinese University of Hong Kong, Hong Kong, Hong Kong, (2)The Chinese University of Hong Kong, Hong Kong, Hong Kong

199 140.199 The Effects of a Comprehensive Intervention Model on Functional Communication, Speech, and Language in Preschoolers with ASD S. Booker[1], S. Woodall[1,2] and K. Van Skiver[1], (1)Society for Treatment of Autism, Calgary, AB, Canada, (2)Prairie Valley School Division, Regina, SK, Canada

200 140.200 The Effects of an Interactive Robot on Increasing Communication Skills for Children with Autism Spectrum Disorders J. Musolff[1], D. Portenier[1], J. J. Diehl[2], M. Villano[3] and C. R. Crowell[3], (1)Barber National Institute, Erie, PA, (2)Psychology, University of Notre Dame, Notre Dame, IN, (3)University of Notre Dame, Notre Dame, IN

201 140.201 The Function of Gesture: Socially-Oriented Vs. Process-Oriented Gestures in Autism Spectrum Disorder A. R. Canfield[1], I. M. Eigsti[2] and A. de Marchena[3], (1)University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

202 140.202 The Impact of Child Variables on the Amount of Teacher Verbal Input on Children with Autism X. Qian[1] and J. Qian[2], (1)University of Minnesota, Minneapolis, MN, (2)College of Education and HumanDevelopment, Univerisity of Minnesota, Minneapolis, MN

203 140.203 The Language-Cognition Interface in ASD: Complement Sentences and False-Belief Reasoning M. Burnel[1], A. Reboul[2] and S. Durrleman[2], (1)Laboratoire de Psychologie et NeuroCognition, Grenoble, France, (2)Laboratoire sur le Langage le Cerveau et la Cognition, Bron, France

204 140.204 The Local Bias in ASC: Weak Central Coherence or a Deficit in Executive Control? R. Booth[1], A. W. Paciorek[2] and F. Happe[3], (1)Institute of Child Health, University College London, London, United Kingdom, (2)Institute of Modern Languages, Pedagogical University of Krakow, Krakow, Poland, (3)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

205 140.205 The Origins of the SLI Phenotype in the Early Language Development of Children with ASD L. Naigles[1], S. Ozonoff[2], S. J. Rogers[3] and A. M. Mastergeorge[4], (1)University of Connecticut, Storrs, CT, (2)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (3)University of California at Davis, Sacramento, CA, (4)Family Studies and Human Development, University of Arizona, Tucson, AZ

206 ▸ 140.206 The Temporal Structure of the Autistic Voice: A Cross-Linguistic Investigation R. Fusaroli[1,2,3], R. B. Grossman[4], C. Cantio[5], N. Bilenberg[6] and E. Weed[7,8,9], (1)Center of functionally Integrative Neuroscience, Aarhus University Hospital, Aarhus, Denmark, (2)Center for Semiotics, Aarhus University, Aarhus, Denmark, (3)Interacting Minds Center, Aarhus University, Aarhus, Denmark, (4)FACElab, Emerson College, Boston, MA, (5)Odense University Hospital, Odense C, Denmark, (6)Institute of Clinical Research, University of Southern Denmark, Odense, Denmark, (7)Linguistics, Aarhus University, Aarhus, Denmark, (8)Interacting Minds Centre, Aarhus, Denmark, (9)Center for Functionally Integrative Neuroscience, Aarhus, Denmark

207 140.207 Voice Patterns in Adult English Speakers with Autism Spectrum Disorder R. Fusaroli[1], A. Lambrechts[2], K. Yarrow[3], K. L. Maras[4] and S. B. Gaigg[5], (1)Center of functionally Integrative Neuroscience, Aarhus University Hospital, Aarhus, Denmark, (2)City University London, London, England, United Kingdom, (3)Psychology, City University London, London, United Kingdom, (4)Psychology, University of Bath, Bath, United Kingdom, (5)Autism Research Group, City University London, London, United Kingdom

Poster Session
141 - International and Cross-Cultural Perspectives
11:30 AM - 1:30 PM - Imperial Ballroom

208 ▸ 141.208 A Collaborative Community Awareness Screening Program on Autism in Lagos Nigeria: Lessons Learnt Y. O. Oshodi[1], A. T. Olagunju[1], C. S. Umeh[1], O. F. Aina[2], W. Oyibo[3], A. Lamikanra[4], F. E. A. Lesi[5] and J. D. Adeyemi[1], (1)Psychiatry department, College of Medicine University of Lagos, Lagos, Nigeria, (2)Department of Psychiatry, College of Medicine University of Lagos, Lagos, Nigeria, (3)Department of Microbiology and Parasitology, College of Medicine University of Lagos, Lagos, Nigeria, (4)Blazing trails international Center, Texas, TX, (5)Paediatrics department, College of Medicine University of Lagos, Lagos, Nigeria

209 ▸ 141.209 A Cross-Cultural Study of Self- and Other-Descriptions By Individuals with ASD in New Delhi, India and Los Angeles, USA R. S. Brezis[1], N. Singhal[2], T. C. Daley[3], T. Weisner[4] and M. Barua[2], (1)Interdisciplinary Center, Herzliya, Jerusalem, Israel, (2)Action For Autism, New Delhi, India, (3)Westat, Durham, NC, (4)UCLA, Los Angeles, CA

210 ▸ 141.210 A Parent-Implemented Autism Intervention Among Underserved Families in Taiwan P. F. Chen[1], P. C. Tsai[2], Y. T. Wu[3], A. C. Stahmer[4], S. R. Rieth[5], C. M. Chang[6], C. C. Wu[7], C. L. Chu[8], F. W. Lung[9] and L. C. Lee[2], (1)Calo Psychiatric Center, Pingtung county, Taiwan, (2)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei, Taiwan, (4)Psychiatry, University of California, San Diego, San Diego, CA, (5)Child and Family Development, San Diego State University, San Diego, CA, (6)Calo Psychiatric Center, Pingtung County, Taiwan, (7)Department of Psychology, Kaohsiung Medical University, Kaohsiung, Taiwan, (8)Department of Psychiatry, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, Taiwan, (9)Songde Branch, Taipei City Hospital, Taipei, Taiwan

211 ▸ 141.211 ASD Knowledge and Stigmas in Tanzania A. J. Harrison[1], B. L. Cochran[1] and K. K. Blane[2], (1)University of Georgia, Athens, GA, (2)Alpert Medical School of Brown University, Providence, RI

212 ▸ 141.212 Challenges to the Development of Culturally Sensitive ASD Interventions for Latino Families S. R. Cohen[1] and J. Blacher[2], (1)University of California, San Diego, La Jolla, CA, (2)University of California - Riverside, Los Angeles, CA

213 ▸ 141.213 Changing College Students' Conceptions of ASD: Benefits of an Online Training for Undergraduates in the United States and Lebanon R. Obeid[1], C. Shane-Simpson[2], D. DeNigris[3], N. Daou[4], P. J. Brooks[5] and K. Gillespie-Lynch[6], (1)The Graduate Center - CUNY, Staten Island, NY, (2)The Graduate Center at the City University of New York, New York, NY, (3)The Graduate Center, CUNY, New York, NY, (4)Psychology, American University of Beirut, Beirut, Lebanon, (5)Department of Psychology, The Graduate Center - CUNY, New York, NY, (6)Department of Psychology, College of Staten Island - CUNY, Staten Island, NY

214 ▸ 141.214 Cross-Cultural Comparison of College Students' Stigmatizing Attitudes Towards ASD Between the United States and Japan F. Someki[1], M. Torii[2], P. J. Brooks[3,4], R. Obeid[3] and K. Gillespie-Lynch[3,4], (1)Educational Studies, College of Staten Island, City University of New York, Staten Island, NY, (2)Human Developmental and Environment, Graduate School of Kobe University, Kobe, Japan, (3)Department of Psychology, The Graduate Center - CUNY, New York, NY, (4)Department of Psychology, College of Staten Island - CUNY, Staten Island, NY

215 ▸ 141.215 Cross-Cultural Comparisons of Children's Theory-of-Mind and Executive-Function Development in Typical and Atypical (ASD) Samples A. Pushparatnam and C. Hughes, Centre for Family Research, University of Cambridge, Cambridge, United Kingdom

216 ▸ 141.216 Distribution of Autism-Associated Behaviors in a General School-Aged Population: Findings from a Population-Based Study in Taiwan P. C. Tsai[1], R. A. Harrington[1], I. T. Li[2], F. W. Lung[3] and L. C. Lee[1], (1)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Kaohsiung Medical University Chung-Ho Memorial Hospital, Kaohsiung, Taiwan, (3)Taipei City Hospital, Taipei, Taiwan

217 ▸ 141.217 Faith and Respect: Parenting the Urban African American Child with Autism K. W. Burkett[1], E. Morris[2] and P. M. Manning-Courtney[3], (1)Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Nursing Research, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)Cincinnati Children's Hospital Medical Center, Cincinnati, OH

218 ▸ 141.218 Increasing Awareness of Autism and Other Developmental Disorders Among Rural Ethiopian Community Health Workers: Impact of a Brief Training R. A. Hoekstra[1], D. Tilahun[2], Y. Baheretibeb[2], B. Tekola Gebru[1], I. Roth[1], B. Davey[1], A. Fekadu[2] and C. Hanlon[2,3], (1)Department of Life, Health and Chemical Sciences, The Open University, Milton Keynes, United Kingdom, (2)Department of Psychiatry, School of Medicine, College of Health Sciences, Addis Ababa University, Addis Ababa, Ethiopia, (3)Centre for Global Mental Health, Institute of Psychiatry, King's College London, London, United Kingdom

219 141.219 Physiological Monitoring during PEERS®: A "Culture-Free" Method of Understanding Intervention Response N. Jain[1], S. Ahamed[1], S. Stevens[1], K. A. Schohl[2], B. Dolan[1], A. J. McVey[1], S. Potts[1], C. L. Casnar[3], C. Caiozzo[1], E. M. Vogt[2] and A. V. Van Hecke[4], (1)Marquette University, Milwaukee, WI, (2)Clinical Psychology, Marquette University, Milwaukee, WI, (3)University of Wisconsin Milwaukee, Milwaukee, WI, (4)Psychology, Marquette University, Milwaukee, WI

220 ▸ 141.220 Spirituality in Latino Families of Children with Autism Spectrum Disorder K. Salkas[1], I. G. Marques[2] and S. Magana[1], (1)Disability and Human Development, University of Illinois at Chicago, Chicago, IL, (2)Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, IL

221 ▸ 141.221 The Analysis of Korean Urban High School Students' Awareness on Autism Spectrum Disorder C. J. Shin, Korea International School, Seongnam-si, Gyeonggi-do, South Korea, South Korea

222 ▸ 141.222 Understanding Parents' and Professionals' Knowledge and Awareness of Autism in Nepal A. Alexander[1], E. Pellicano[1], E. Medeiros[2], K. Man Tumbahangphe[3], F. Gibbons[4], M. Wickenden[2], M. Shrestha[5], A. Costello[2] and M. Heys[2], (1)Centre for Research in Autism and Education (CRAE), Institute of Education, London, United Kingdom, (2)University College London Institute for Global Health, London, United Kingdom, (3)Mother and Infant Research Activities, Kathmandu, Nepal, (4)King's College London, London, United Kingdom, (5)Autism Care Nepal, Kathmandu, Nepal

223 141.223 What about the Adults? C. Hoffner Barthold, Special Education, Graduate School of Education, George Masson University, Fairfax, VA

Oral Session – 6A
142 - Preterm Birth and ASD Risk
1:45 PM - 2:35 PM - Grand Ballroom B

Session Chair: L. Zwaigenbaum, *University of Alberta, Edmonton, AB, Canada*

1:45 142.001 Detection of Early ASD Risk in Preterm Infants M. Yaari[1], N. Yirmiya[1], B. Bar-Oz[2], S. Eventov-Friedman[3], D. Mankuta[4], E. Friedlander[1], A. Harel[1] and N. Yitzhak[1], (1)Psychology Department, Hebrew University, Jerusalem, Israel, (2)Department of Neonatology, Hadassah Medical Center, Jerusalem, Israel, (3)Neonatology Unit, Hadassah Ein-Kerem University Hospital, Jerusalem, Israel, (4)Department of Obstetrics and Gynecology, Hadassah Ein Kerem University Hospital, Jerusalem, Israel

1:57 142.002 Social Cognitive Atypicalities Associated with Preterm Birth: A Challenge to the Early Diagnosis of Autism S. Fletcher-Watson[1], E. Moore[1] and J. Boardman[2], (1)University of Edinburgh, Edinburgh, Scotland, (2)Child Life and Health, University of Edinburgh, Edinburgh, United Kingdom

2:09 142.003 Early Brainstem Dysfunction in Preterm Infants Increases Risk for ASD: Findings from Parent Report Measures J. M. Gardner[1], B. Z. Karmel[1], I. L. Cohen[1], H. T. T. Phan[1], P. M. Kittler[1], E. M. Lennon[1], S. Parab[2] and A. Barone[2], (1)Infant Development, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Pediatrics, Richmond University Medical Center, Staten Island, NY

2:21 142.004 Quality of Interaction Between Very Preterm Infants and Their Mother in the First Year of Life Predicts General Development and Autism Features at 18 Months J. Vermeirsch[1], L. Verhaeghe[1], E. Demurie[1], L. De Schuymer[2] and H. Roeyers[1], (1)Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium, (2)Kind&Gezin, Brussels, Belgium

Oral Session – 6B
143 - Early ASD Surveillance and Screening
2:40 PM - 3:30 PM - Grand Ballroom B

Session Chair: L. Zwaigenbaum, *University of Alberta, Edmonton, AB, Canada*

2:40 143.001 Broadband and Autism-Specific Screening Using the Early Screening for Autism and Communication Disorders (ESAC): Moving from Paper to the Smart ESAC for Children 12 to 36 Months of Age **A. M. Wetherby**[1], W. Guthrie[1], E. Petkova[2], J. Woods[1], C. Lord[3], D. Voccola[4], B. Hall[4] and L. Rozenblit[4], (1)Florida State University Autism Institute, Tallahassee, FL, (2)New York University, New York, NY, (3)Weill Cornell Medical College, White Plains, NY, (4)Prometheus Research, LLC, New Haven, CT

2:52 143.002 Universal Developmental Surveillance for Autism Spectrum Disorders in Infants and Toddlers Using the Social Attention and Communication Study-Revised (SACS-R) **J. Barbaro**[1] and C. Dissanayake[2], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Victoria, Australia, (2)Olga Tennison Autism Research Centre, Melbourne, Australia

3:04 143.003 Parents' Concerns Predict a Later Autism Spectrum Disorder Outcome: A Prospective Study of High-Risk Siblings from 6 to 36 Months **L. A. Sacrey**[1], L. Zwaigenbaum[1], S. E. Bryson[2], J. A. Brian[3], I. M. Smith[4], W. Roberts[5], P. Szatmari[6], C. Roncadin[7], N. Garon[8], T. Vaillancourt[9] and C. Novak[1], (1)University of Alberta, Edmonton, AB, Canada, (2)Autism Research Centre, Dalhousie/ IWK Health Centre, Halifax, NS, Canada, (3)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital/ U of Toronto, Toronto, ON, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)Pediatrics, University of Toronto, Toronto, ON, Canada, (6)University of Toronto, Toronto, ON, Canada, (7)Kinark Child and Family Services, Markham, ON, Canada, (8)Psychology, Mount Allison University, Sackville, NB, Canada, (9)University of Ottawa, Ottawa, ON, Canada

3:16 143.004 Social but Not Repetitive Scores on the Quantitative Checklist for Autism in Toddlers (Q-CHAT) Predict Later Autism Spectrum Diagnosis in a Prospective High-Risk Sibling Study **G. Pasco**[1], C. Allison[2], S. Baron-Cohen[3], M. H. Johnson[4] and T. Charman[1], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom

Oral Session – 7A
144 - Conditioning and Anxiety
1:45 PM - 2:35 PM - Grand Ballroom A

Session Chair: D. M. Bowler, *Autism Research Group, City University London, London, United Kingdom*

1:45 144.001 Neural Networks for Anxiety? Decreased Integration in ASD of Sensorimotor and Emotional Pathways That Support Classical Fear Conditioning **M. South**[1], C. Doxey[2], D. N. Top[3], K. Stephenson[2] and C. B. Kirwan[1], (1)Psychology and Neuroscience, Brigham Young University, Provo, UT, (2)Department of Psychology, Brigham Young University, Provo, UT, (3)Giant Steps Program, Wasatch Mental Health, Provo, UT

1:57 144.002 Right Place, Wrong Time: Delayed Amygdala and Insula Activation in ASD during Classical Fear Conditioning and Extinction **D. N. Top**[1], K. Stephenson[2], M. South[3] and C. B. Kirwan[3], (1)Giant Steps Program, Wasatch Mental Health, Provo, UT, (2)Department of Psychology, Brigham Young University, Provo, UT, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

2:09 144.003 Association of Cognitive Factors and Anxiety with Math Achievement in Adolescents with ASD **J. Beck**[1], T. Oswald[1], A. M. Iosif[1], J. C. Matter[1], L. Gilhooly[1] and M. Solomon[2], (1)UC Davis MIND Institute, Sacramento, CA, (2)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

2:21 144.004 Effectiveness of CBT in Changing Attention Biases in Children with ASD and Comorbid Anxiety **A. T. Meyer**[1], P. S. Powell[1], M. R. Klinger[2], J. Reaven[3], A. Blakeley-Smith[3] and L. G. Klinger[4], (1)Psychology, University of North Carolina, Chapel Hill, NC, (2)Allied Health Sciences, University of North Carolina, Chapel Hill, NC, (3)Psychiatry, JFK Partners/University of Colorado School of Medicine, Aurora, CO, (4)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC

Oral Session – 7B
145 - Repetitive Behaviors and Interests
2:40 PM - 3:30 PM - Grand Ballroom A

Session Chair: D. M. Bowler, *Autism Research Group, City University London, London, United Kingdom*

2:40 145.001 Repetitive and Restricted Behaviours in the General Population: Validation and Heritability of Two New Instruments for Parents and Children **D. W. Evans**[1] and M. Uljarevic[2], (1)Bucknell University, Lewisberg, PA, (2)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia

2:52 145.002 Repetitive and Restricted Behaviors in Infants at Risk for ASD: Comparing Caregiver Report and Observational Measurement **K. Berry**, C. Harrop and L. Huynh, University of California, Los Angeles, Los Angeles, CA

3:04 145.003 Measuring Commitment to Special Interests in Adults on the Autism Spectrum **I. A. Roth**[1], M. T. Roelfsema[2] and R. A. Hoekstra[1], (1)Department of Life, Health and Chemical Sciences, The Open University, Milton Keynes, United Kingdom, (2)Dutch Knowledge Centre on Mild Intellectual Disabilities, Utrecht, Netherlands

3:16 145.004 Examining Patterns of Restricted and Repetitive Behaviors in Angelman Syndrome and Idiopathic Autism Using the Behavior and Sensory Interests Questionnaire **J. Love-Nichols**[1], S. Maisel[2], D. Peterson[1] and E. Hanson[2], (1)Division of Development Medicine and Program in Genomics, Boston Children's Hospital, Boston, MA, (2)Boston Children's Hospital, Boston, MA

Oral Session – 8A
146 - Adult Outcome: Influence of Family and School Contexts and Psychopathology
1:45 PM - 2:35 PM - Grand Ballroom C

Session Chair: L. G. Klinger, *TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC*

1:45 146.001 Family and School Contexts Predict Patterns of Change in Functioning over 10 Years Among Adolescents and Adults with Autism Spectrum Disorders **A. C. Woodman**[1], L. E. Smith[2], J. Greenberg[2] and M. R. Mailick[2], (1)University of Massachusetts Amherst, Amherst, MA, (2)University of Wisconsin-Madison, Madison, WI

1:57 146.002 Association Between Psychiatric Comorbidity and Employment in Adults with ASD **K. J. Cottle**[1], D. A. Bilder[1], J. Viskochil[1], A. V. Bakian[1], H. Coon[1], M. Farley[2] and W. M. McMahon[1], (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)Waisman Center, University of Wisconsin - Madison, Madison, WI

2:09 146.003 Longitudinal Associations Between Social Experiences and Depression for Youth with Autism Spectrum Disorders **S. L. Bishop**[1], R. E. Adams[2], K. Gotham[3] and C. Lord[4], (1)Department of Psychiatry, University of California, San Francisco, San Francisco, CA, (2)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)Vanderbilt University, Nashville, TN, (4)Weill Cornell Medical College, White Plains, NY

2:21 146.004 Major Life Events and Their Role in Psychopathology Among Transitioning Youth with Autism Spectrum Disorder **J. L. Taylor**[1] and K. Gotham[2], (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Department of Psychiatry, Vanderbilt University, Nashville, TN

Oral Session – 8B
147 - Cognitive Aging in ASD
2:40 PM - 3:30 PM - Grand Ballroom C

Session Chair: L. G. Klinger, *TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC*

2:40 147.001 Do Cognitive Challenges of Adults with Autism Persist, Abate or Increase into Old Age? **A. G. Lever**[1] and H. M. Geurts[1,2], (1)Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Dr. Leo Kannerhuis (autism clinic), Amsterdam, Netherlands

2:52 147.002 Working Memory Across the Adult Lifespan: Do Individuals with and without Autism Show Differential Age-Related Decline? **A. G. Lever**[1], M. Werkle-Bergner[2], A. M. Brandmaier[2], K. R. Ridderinkhof[3] and H. M. Geurts[1,4], (1)Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany, (3)Amsterdam Brain and Cognition, University of Amsterdam, Amsterdam, Netherlands, (4)Dr. Leo Kannerhuis (autism clinic), Amsterdam, Netherlands

3:04 147.003 Older Adults with ASD: Executive Functioning Deficits, Functional and Structural Connectivity Differences, and Accelerated Cortical Thickness Atrophy **B. B. Braden**[1], C. J. Smith[2], T. K. Glaspy[1], C. T. Elrod[1], K. D. Steinke[1], V. J. Amaya[1], H. Ciccone[1,2] and L. C. Baxter[1], (1)Neuroimaging, Barrow Neurological Institute, Phoenix, AZ, (2)Research, Southwest Autism Research & Resource Center, Phoenix, AZ

3:16 147.004 Ageing and Psychological Functioning in Autism Spectrum Disorder **A. Roestorf**[1], D. M. Bowler[1] and P. Howlin[2], (1)Autism Research Group, City University London, London, United Kingdom, (2)Department of Psychology, King's College London, London, United Kingdom

Oral Session – 9A
148 - From Mice to Monkeys: New Approaches to Dissecting the Neurobiology of ASD
1:45 PM - 2:35 PM - Grand Ballroom D

Session Chair: J. Veenstra-Vander Weele, *Columbia University / New York State Psychiatric Institute, Psychiatry, New York, NY*

1:45 148.001 Convergent Excitability Defects in Prefrontal Corticothalamic Pyramidal Neurons Link Genes to Behavior in Mouse Models of Autism **A. C. Brumback**[1] and V. S. Sohal[2], (1)Mail Code 0444, University of California, San Francisco, San Francisco, CA, (2)Psychiatry, UCSF, San Francisco, CA

1:57 148.002 Cognitive Impairments in a Mouse Model of 16p11.2 Deletion Syndrome **M. Yang**[1], F. L. Lewis[1], G. Foley[1], T. Portmann[2,3], R. Dolmetsch[2,4] and J. N. Crawley[1], (1)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis School of Medicine, Sacramento, CA, (2)Department of Neurobiology, Stanford University School of Medicine, Stanford, CA, (3)Drug Discovery Program, Circuit Therapeutics Inc, Menlo Park, CA, (4)Novartis Institutes for Biomedical Research, Cambridge, MA

2:09 148.003 Oxytocin Reverses Social Deficits in the Shank3-Deficient Rat, a First Genetically Modified Rat Model for Autism **H. Harony-Nicolas**[1,2], O. B. Gunal[1,2], M. Kay[3], L. Klei[4], A. Browne[1], S. A. Dick[1], A. N. O'Toole[5], Y. Kou[1,2], A. Ma'ayan[6], K. Roeder[7], S. Wagner[3] and J. D. Buxbaum[1,2,8,9,10,11], (1)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Seaver Autism Center for Research and Treatment, New York, NY, (3)Neurobiology, University of Haifa, Haifa, Israel, (4)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (5)Smurfit Institute of Genetics, Trinity College Dublin, Dublin, Ireland, (6)Department of Pharmacology and Systems Therapeutics, Icahn School of Medicine at Mount Sinai, New York, NY, (7)Statistics, Carnegie Mellon University, Pittsburgh, PA, (8)Fishberg Department of Neuroscience, Icahn School of Medicine at Mount Sinai, New York, NY, (9)Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, NY, (10)Friedman Brain Institute, Icahn School of Medicine at Mount Sinai, New York, NY, (11)The Mindich Child Health and Development Institute,, Icahn School of Medicine at Mount Sinai, New York, NY

2:21 148.004 Assessment of Social Behavior in Non-Human Primate Infants Following Administration of Thimerosal-Containing Vaccines **L. Hewitson**[1], B. Curtis[2], N. Liberato[2], C. Kenney[2], V. Yutuc[2], C. Ferrier[2], C. N. Marti[3] and G. P. Sackett[2], (1)The Johnson Center for Child Health and Development, Austin, TX, (2)Washington National Primate Research Center, Seattle, WA, (3)Abacist Analytics, LLC, Austin, TX

Oral Session – 9B
149 - Metabolomic and Genetic Factors in ASD
2:40 PM - 3:30 PM - Grand Ballroom D

Session Chair: J. Veenstra-Vander Weele, *Columbia University / New York State Psychiatric Institute, Psychiatry, New York, NY*

2:40 149.001 Effects of Metabolism Changes during Development on the Plasma Profile of ASD in Children R. Burrier[1], E. Donley[1], P. R. West[1], A. M. Smith[1], S. J. James[2], B. Fontaine[1] and R. Alexandridis[1], (1)Stemina Biomarker Discovery, Madison, WI, (2)University of Arkansas for Medical Sciences, Little Rock, AR

2:52 149.002 Epigenetic Dysregulation of microRNA-142 and Upregulation of Multiple microRNAs That Target Oxytocin Receptor in the Frontal Cortex of Individuals with Autism E. Elliott, M. Easton and S. Nardone, Faculty of Medicine, Bar Ilan University, Safed, Israel

3:04 149.003 Upregulation of Phospho-S6 and Dendritic Overgrowth of Developing Layer V Neurons Are Phenotypes in Common Between Pten+/- and Fmr1-/y Mice W. C. Huang[1,2] and D. T. Page[2], (1)The Scripps Research Institute, Scripps Florida, Jupiter, FL, (2)Neuroscience, The Scripps Research Institute, Scripps Florida, Jupiter, FL

3:16 149.004 Engrailed Expression in Hippocampus and Its Effects on Dendritic Complexity: Implication for Autism Spectrum Disorders A. Soltani[1], S. Lebrun[1], R. Joshi[2], F. Castagner[2], G. Carpentier[3], G. Zunino[4], Z. Jaffal[1], S. Chantepie-Laborde[3], C. Desnos[1], Y. Bozzi[4], F. Darchen[1] and O. Stettler[3], (1)Centre Universitaire des Saints-Pères, Neurophotonics Laboratory - Synaptic trafficking team CNRS/Université Paris Descartes, Paris, France, (2)Development and Neuropharmacology Group, Centre for Interdisciplinary Research in Biology (CIRB), CNRS UMR 7241, INSERM U 1050, Collège de France, Paris,, Paris, France, (3)Laboratoire CRRET, EAC CNRS 7149, Faculté des Sciences et Technologie, Université Paris Est Créteil, France, Créteil, France, (4)Molecular Neuropathology Laboratory, Centre for Integrative Biology (CIBIO), University of Trento, Italy, Trento, Italy

Oral Session – 10A
150 - Brain Anatomy in ASD
1:45 PM - 2:35 PM - Grand Salon

Session Chair: C. Ecker, *The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom*

1:45 150.001 Cortical Surface Anatomy in Adult Females with Autism M. Gudbrandsen[1], E. Daly[2], D. Andrews[3], S. Baron-Cohen[4], M. C. Lai[5], M. V. Lombardo[6], A. N. Ruigrok[4], M. AIMS Consortium[7], D. G. Murphy[2], M. C. Craig[8,9] and C. Ecker[3], (1)The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, England, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (3)The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom, (4)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (5)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (6)Department of Psychology, University of Cyprus, Nicosia, Cyprus, (7)MRC AIMS Consortium, London, United Kingdom, (8)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London and National Autism Unit, Royal Bethlem Hospital, SLAM NHS Foundation Trust, London, United Kingdom, (9)Bethlem Royal Hospital, SLAM NHS Foundation Trust, National Autism Unit, Kent, United Kingdom

1:57 150.002 On the Question of Brain Overgrowth in ASD: An in Depth Methodological Analysis Using the Large Abide Dataset A. Michael[1] and G. J. Katuwal[1,2], (1)Autism and Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (2)Center for Imaging Science, Rochester Institute of Technology, Rochester, NY

2:09 150.003 Older Adults with Autism: So Much for the Gray Matter? P. C. M. Koolschijn[1] and H. M. Geurts[2], (1)Brain & Cognition, Dutch Autism & ADHD Research Center, University of Amsterdam, Amsterdam, Netherlands, (2)Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands

2:21 150.004 Persistence of Megalencephaly in Early Childhood in a Subset of Children with Autism Spectrum Disorder L. Libero[1], C. W. Nordahl[2], D. D. Li[2], S. J. Rogers[3] and D. G. Amaral[2], (1)UC Davis MIND Institute, Sacramento, AL, (2)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

Oral Session – 10B
151 - Brain Connectivity in ASD
2:40 PM - 3:30 PM - Grand Salon

Session Chair: C. Ecker, *The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom*

2:40 151.001 Connectivity Differences in a Heterogeneous Sample of Mice from Multiple Mouse Models of Autism Y. Yee[1], J. Ellegood[2] and J. P. Lerch[2], (1)Medical Biophysics, University of Toronto, Toronto, ON, Canada, (2)Hospital for Sick Children, Toronto, ON, Canada

2:52 151.002 Abnormalities in Large-Scale Brain Network Architecture in Autism B. A. Zielinski[1], M. D. Prigge[2], J. E. Lainhart[3], A. Alexander[4], E. D. Bigler[5], N. Lange[6] and G. Gerig[7], (1)Division of Pediatric Neurology, University of Utah, Salt Lake City, UT, (2)Pediatrics, University of Utah, Salt Lake City, UT, (3)Psychiatry, Waisman Center, University of Wisconsin-Madison, Madison, WI, (4)Waisman Center, University of Wisconsin-Madison, Madison, WI, (5)Psychology, Neuroscience Center, Brigham Young University, Provo, UT, (6)McLean Hospital, Belmont, MA, (7)School of Computing & Scientific Computing and Imaging Institute SCI, University of Utah, Salt Lake City, UT

3:04 151.003 Distinctive Developmental Pattern of Functional and Structural Connectivities within Default Mode Network in ASD H. Y. Chien[1], S. S. F. Gau[2], Y. J. Chen[1], Y. C. Lo[1], H. Y. Lin[2], Y. C. Hsu[1] and W. Y. I. Tseng[1], (1)Center for Optoelectronic Medicine, National Taiwan University College of Medicine, Taipei, Taiwan, Taipei, Taiwan, (2)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan

3:16 151.004 Ultrastructural Analysis of Axons in Temporal Lobe White Matter in Autism T. A. Avino[1], X. B. Liu[2] and C. M. Schumann[1], (1)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (2)Cell Biology and Human Anatomy, UC Davis, Davis, CA

Panel Session
152 - Tackling Teenage Troubles: Interventions Aimed at Guiding Adolescents with ASD through the Challenges in the Domains of School, Peers and Psychosexual Development
3:30 PM - 5:30 PM - Grand Ballroom B

Session Chair: D. H. Skuse, *Institute of Child Health, London, United Kingdom*

Discussant: K. Greaves-Lord, *Yulius Autisme Expertisecentrum, Rotterdam/Dordrecht, Netherlands*

Adolescence can be a challenging period for individuals with autism spectrum disorder (ASD), because of the physical, emotional and social changes that occur simultaneously. The change from primary to secondary education entails a large environmental change in location, daily schedule, and social context. Therefore, guidance in this transition is important. It is also crucial to foster a save relation with the teachers, to enhance the learning environment and facilitate optimal academic achievement. In order to have positive peer interactions and develop and maintain friendships, social skills become increasingly important. Training social skills, while involving the parents who can additionally coach these skills in the home and community environment, is therefore also important. Finally, due to hormonal changes, psychical changes occur that usually concur with increased sexual awareness and interest. Since sexuality and intimate relations require regulation of emotions, behaviours and social-communication, guidance in the area of psychosexual development can also be of importance. Given these challenges, the current panel will discuss research on interventions that are aimed at guidance for adolescents with ASD regarding 1) the transition from primary to secondary school, 2) a positive teacher-pupil relation, 3) social skills for interaction with peers, and 4) a healthy psychosexual development.

3:30 152.001 The Transition to Secondary Education for Young People with Autism Spectrum Disorder (ASD): A Controlled Trial of the Systemic Transition in Education Programme for ASD (STEP-ASD) W. Mandy[1], M. Murin[2], O. Baykaner[2], J. Hellriegel[3], S. Staunton[4], S. Anderson[5] and D. H. H. Skuse[6], (1)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom, (2)Great Ormond Street Hospital, London, United Kingdom, (3)UCL, london, United Kingdom, (4)Institute of Child Health, Dublin, Ireland, (5)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (6)Institute of Child Health, London, United Kingdom

3:55 152.002 Impact of a Preventive Intervention on the Relationship Between Teachers and Adolescent Students with Autism Spectrum Disorder J. Hopman[1,2], N. Tick[1,2], J. van der Ende[2], P. van Lier[3], T. Wubbels[4], F. C. Verhulst[2], L. Breeman[1,2] and A. Maras[1], (1)Yulius Academy, Yulius Mental Health Care, Barendrecht, Netherlands, (2)Department of Child & Adolescent Psychiatry/psychology, Erasmus MC - Sophia Children's Hospital, Rotterdam, Netherlands, (3)Department of Developmental Psychology, VU University Amsterdam, Amsterdam, Netherlands, (4)Utrecht University, Faculty of Social and Behavioral Sciences, Utrecht, Netherlands

4:20 152.003 Using Parent-Assistance and Teacher-Facilitation to Teach Social Skills in the Classroom: Treatment Outcome for the PEERS® School-Based Curriculum E. A. Laugeson[1], R. Ellingsen[2], L. C. Tucci[3], Y. Bolourian[4] and S. Bates[5], (1)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)The Help Group/UCLA Autism Research Alliance, Redondo Beach , CA, CA, (4)The Help Group - UCLA Autism Research Alliance, Moorpark, CA, (5)Psychiatry, UCLA PEERS Program, Los Angeles, CA

4:45 152.004 A Randomized Controlled Trial to Investigate the Effects of a Psychosexual Training Program for Adolescents with Autism Spectrum Disorder: Results of the Tackling Teenage Training Program K. Visser[1], K. Greaves-Lord[2], F. C. Verhulst[3], N. Tick[3], A. Maras[4] and E. van der Vegt[1], (1)Erasmus MC-Sophia, Rotterdam, Netherlands, (2)Yulius Autisme Expertisecentrum, Rotterdam/ Dordrecht, Netherlands, (3)Department of Child & Adolescent Psychiatry/psychology, Erasmus MC - Sophia Children's Hospital, Rotterdam, Netherlands, (4)Yulius Academy, Yulius Mental Health Care, Barendrecht, Netherlands

5:10 Discussant

Panel Session
153 - Integrating Human Genetics, Functional Genomics, and Model Systems to Illuminate the Etiology of ASD
3:30 PM - 5:30 PM - Grand Ballroom A

Session Chair: M. W. State, *Psychiatry, UCSF, San Francisco, CA*

Gene discovery via next generation sequencing is paramount to understanding the underlying biology of autism spectrum disorder (ASD). However, interpretation of genetic variation is confounded by the heterogeneity of ASD, as well as the difficulty understanding the functional role of non-coding regions. This panel outlines a paradigm for translating findings from whole-exome and whole-genome sequencing to testable hypotheses of ASD neurobiology. In the first talk, recent findings from whole-exome and whole-genome sequencing studies are presented with an emphasis on using maps of regulatory regions to interpret non-coding variation. Next, specific chromatin modifiers, associated with ASD risk via these DNA sequencing studies, are investigated with ChIP-seq in order to build regulatory networks that may be perturbed in ASD. The third talk

in this panel uses a novel framework to integrate the data from the first two talks with gene expression data from the developing human brain in order to increase our power to detect genes associated with ASD. Finally, in the fourth talk, we highlight recent efforts to translate genetic findings to functional biology and pharmacological screening using zebrafish as a model system.

3:30 153.001 Whole-Genome Sequencing in ASD Quartets and Integration with Regulatory Elements Active during Human Brain Development A. J. Willsey[1], S. Reilly[2], M. Walker[1], R. A. Muhle[3], J. Cotney[2], S. J. Sanders[1], B. Devlin[4], K. Roeder[5], N. Sestan[6], J. Noonan[2] and M. W. State[1], (1)Psychiatry, UCSF, San Francisco, CA, (2)Genetics, Yale University School of Medicine, New Haven, CT, (3)Yale Child Study Center, New Haven, CT, (4)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (5) Statistics, Carnegie Mellon University, Pittsburgh, PA, (6)Neurobiology, Yale University School of Medicine, New Haven, CT

4:00 153.002 Chromatin Remodelers in Autism: Deciphering Regulatory Networks That Contribute to Autism Risk J. Cotney[1], R. A. Muhle[2], S. J. Sanders[3], L. Liu[4], A. J. Willsey[3], W. Niu[1], W. Liu[1], L. Klei[5], J. Lei[4], J. Yin[1], S. Reilly[1], A. Tebbenkamp[6], C. Bichsel[6], M. Pletikos[6], N. Sestan[6], K. Roeder[4], M. W. State[3], B. Devlin[5] and J. Noonan[1], (1)Genetics, Yale University School of Medicine, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)Psychiatry, UCSF, San Francisco, CA, (4)Statistics, Carnegie Mellon University, Pittsburgh, PA, (5)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (6)Neurobiology, Yale University School of Medicine, New Haven, CT

4:30 153.003 Gene Expression, Regulatory Elements and Rare Sequence Variation Identify Genes and Subnetworks Underlying Autism Risk A. E. Cicek[1], L. Liu[2], S. J. Sanders[3], A. J. Willsey[3], J. Cotney[4], R. A. Muhle[5], N. Sestan[6], J. Noonan[4], M. W. State[3], B. Devlin[7] and K. Roeder[2], (1)Ray and Stephanie Lane Center for Computational Biology, Carnegie Mellon University, Pittsburgh, PA, (2)Statistics, Carnegie Mellon University, Pittsburgh, PA, (3)Psychiatry, UCSF, San Francisco, CA, (4)Genetics, Yale University School of Medicine, New Haven, CT, (5)Yale Child Study Center, New Haven, CT, (6)Neurobiology, Yale University School of Medicine, New Haven, CT, (7)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA

5:00 153.004 Zebrafish Mutants of the Autism Risk Gene Cntnap2 Identify Gabaergic Defects and Estrogens As Phenotypic Suppressors E. J. Hoffman[1], K. J. Turner[2], J. M. Fernandez[1], S. W. Wilson[2], J. Rihel[2], M. W. State[3] and A. J. Giraldez[4], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Department of Cell and Developmental Biology, University College London, London, United Kingdom, (3)Psychiatry, UCSF, San Francisco, CA, (4)Genetics, Yale University, New Haven, CT

Panel Session
154 - Meaningful Social Outcomes in Real World Settings: Targets, Interventions, and Change
3:30 PM - 5:30 PM - Grand Ballroom C

Session Chair: J. J. Locke, *University of Pennsylvania, Seattle, WA*

Discussant: D. S. Mandell, *Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA*

Children with autism spectrum disorder (ASD) usually face complex social challenges in schools. Although placing children with ASD with their typically developing peers is a common practice in public school settings, inclusion alone may not be sufficient to increase social ability. Studies of included children with ASD demonstrate that they have poorer social outcomes than their typically developing peers, and these differences worsen with age. Interventions to address social challenges typically occur outside of school settings and rarely generalize. This symposium will address these challenges by: a) presenting data from measures of social connectedness and peer engagement of elementary aged children with ASD and their typical classmates in public schools; b) exploring the role of age and gender in these connections; and c) comparing changes in peer engagement in response to different interventions. These data represent the large multi-site efforts of researchers engaged in community-based research designed to introduce effective social skills interventions and testing meaningful social outcome measures in community settings.

3:30 154.001 Social Network Analysis of Children with ASD: Predictors of Fragmentation and Connectivity in Elementary School Classrooms A. Anderson[1] and C. Kasari[2], (1)UCLA, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA

3:55 154.002 What Are They Doing at Recess? Examining Playground Behavior Between Elementary School Children with and without Autism Spectrum Disorder J. J. Locke[1], W. Shih[2] and C. Kasari[3], (1)University of Pennsylvania, Philadelphia, PA, (2)UCLA, Los Angeles, CA, (3)UCLA Center for Autism Research & Treatment, Westwood, CA

4:20 154.003 Gender Differences in the Social Behaviors of Children with ASD M. Dean[1] and R. Harwood[2], (1)University of California Los Angeles, Los Angeles, CA, (2)HRSA, Rockville, MD

4:45 154.004 Does Peer Composition and Intervention Approach Matter for Improving Peer Engagement during Recess for Children with ASD? M. Kretzmann[1], F. Orlich[2], B. H. King[3], R. J. Landa[4], C. Lord[5] and C. Kasari[6], (1)University of California Los Angeles, Los Angeles, CA, (2)Seattle Children's Research Institute, Seattle, WA, (3)Psychiatry and behavioral sciences, University of Washington, Seattle, WA, (4)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (5)Weill Cornell Medical College, White Plains, NY, (6)UCLA Center for Autism Research & Treatment, Westwood, CA

5:10 Discussant

Panel Session
155 - Neuronal Migrational Abnormalities in Autism
3:30 PM - 5:30 PM - Grand Ballroom D

Session Chair & Discussant: M. F. Casanova, *Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY*

There are many neuropathological findings in autism spectrum disorder (ASD). Some of the reported findings can be accounted by either methodological flaws, the effects of preagonal/agonal conditions, artifacts of postmortem tissue, or as being secondary to comorbidities. A few findings remain that by themselves are abnormal and symptomatic, e.g., heterotopias, cortical malformations (dysplasias). The presence of heterotopias and cortical dysplasias in ASD suggests abnormalities of germinal cell division and their subsequent migration to the cortical plate. In this panel we will discuss and illustrate the available evidence for a neuronal migratory disturbance in ASD. The lectures will summarize the following findings in the brains of ASD individuals: 1) Computerized image analysis studies will provide quantitative evidence of increased neuronal cellularity within the white matter of the brain, especially the subplate region, 2) Serial sections of whole brain specimens will detail the presence of heterotopic clusters of cells and cortical dysplasias, 3) Immunocytochemical staining of the cerebral cortex will illustrate abnormalities of specific interneurons in regards to their location within the laminae of the cerebral cortex, and 4) We will summarize genetic evidence for the roles of disturbed neurogenesis and network desynchronization in autism.

3:30 155.001 Neuronal Profiles within the Subplate and Their Potential Contributions to Cortical Organization in Autism J. J. Hutsler[1] and T. A. Avino[2], (1)Cognitive and Brain Sciences, University of Nevada Reno, Reno, NV, (2)MIND Institute, University of California, Davis, Sacramento, CA

3:55 155.002 Patterns of Neuronal Migration Abnormalities in Autism of Unknown Etiology and Autism Caused By Chromosome 15q11.2-q13 Duplications, and Their Contribution to Clinical Phenotype J. Wegiel[1], I. Kuchna[1], J. Wegiel[1], K. Nowicki[1], S. Y. Ma[2], H. Imaki[1], E. B. London[3], T. Wisniewski[3] and W. T. Brown[3], (1)Developmental Neurobiology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Developmental Neurobilogy, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY

4:20 155.003 Parvalbumin Stained Cells Are Reduced in the Cerebral Cortex of Individuals with Autism Spectrum Disorders V. Martinez-Cerdeno, Pathology, UC Davis, Sacramento, CA

4:45 155.004 Genetics Studies Indicate That Disturbances in Premigratory Neuroblast Maturation Are a Core Feature in the Pathology of Autism Spectrum Disorders E. L. Casanova, Psychiatry, University of Louisville, Louisville, KY

5:10 Discussant

Panel Session
156 - Understanding Early Dyadic Interaction in ASD
3:30 PM - 5:30 PM - Grand Salon

Session Chair: K. Hudry, *Olga Tennison Autism Research Centre, Melbourne, Australia*

Discussant: M. Siller, *Psychology, Hunter College of the City University of New York, New York, NY*

The early emergence of ASD is characterized by progressive difficulties in social communication. These early emerging symptoms are likely to perturb the dyadic interactions between caregivers and their children. However, very little is known about how this process unfolds, and what implications it may have for a child's ongoing trajectory of development. For example, many caregivers may adapt to their child's communicative style to maximize a child's learning opportunities. Identifying the caregiver adaptions that can promote optimal socio-communicative development in children can thus help us design more effective parent-mediated interventions for young children with ASD. In this symposium, we present data that illuminates the effects of child symptomatology on caregiver-child interactions in the first years of life. We identify caregiver adaptations and behaviors that may be optimal for promoting positive socio-communicative trajectories. Finally, we present the results of a large survey of parents, service providers and individuals with ASD that illuminates the thoughts of the wider community on research in early ASD. We will discuss the implications of this work for harnessing the dynamic interactions that shape the developmental course for individuals with ASD.

3:30 156.001 A Longitudinal Examination of Parent-Child Interaction in the Context of Toddlers at High-Risk of Autism K. Hudry[1], M. Grant[2], R. Bedford[3], G. Pasco[4], V. Slonims[5], J. Green[6], M. Elsabbagh[7], M. H. Johnson[8] and T. Charman[4], (1)Olga Tennison Autism Research Centre, Melbourne, Australia, (2)La Trobe University, Olga Tennison Autism Research Centre, Melbourne, Australia, (3)King's College London, London, United Kingdom, (4)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Guy's and St Thomas' NHS Foundation Trust, London, England, United Kingdom, (6)Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom, (7)Department of Psychiatry, McGill University, Montreal, QC, Canada, (8)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom

3:55 156.002 Mother-Child Interaction in 5- and 10-Month Old Infants at Risk for Autism Spectrum Disorder E. Demurie[1], P. Warreyn[1], L. Verhaeghe[1], J. Vermeirsch[1], L. De Schuymer[2] and H. Roeyers[1], (1)Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium, (2)Kind&Gezin, Brussels, Belgium

4:20 156.003 Understanding the Parental Interactive Behaviours of at-Risk Infants: What We Have Learned from Basis and Ibasis M. W. Wan[1], J. Green[1], A. Brooks[1] and T. B. Team[2], (1)Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom, (2)BASIS, UK, United Kingdom

4:45 156.004 What Does the Autism Community Think of Research with Infants with Higher Likelihood of Later Autism Diagnosis? Results of a Large International Survey S. Fletcher-Watson[1] and M. COST ESSEA Action Group[2], (1)University of Edinburgh, Edinburgh, Scotland, (2)Institute of Psychiatry, London, United Kingdom

5:10 Discussant

Poster Session
157 - Interventions - Non-pharmacologic - School Age, Adolescent, Adult
5:30 PM - 7:00 PM - Imperial Ballroom

1 157.001 A Brief Behavioral Sleep Intervention Improves Sleep and Irritability in Adolescents with Autism Spectrum Disorders W. A. Loring[1], R. L. Johnston[1], L. Gray[2] and B. A. Malow[1], (1)Vanderbilt Kennedy Center, Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University Medical Center, Nashville, TN

2 157.002 A Randomized Clinical Trial on Promoting Face Recognition Skills in Children with ASD Using the Facestation Video Game Curriculum G. Kohls[1], S. Faja[2], F. Baguio[3] and R. T. Schultz[3], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, RWTH Aachen University, Aachen, Germany, (2)Boston Children's Hospital/ Harvard School of Medicine, Boston, MA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

3 157.003 A Randomized Controlled Study into the Efficacy of Social Skills Training in Autism (ESTIA) for Preadolescent Children V. Dekker[1], M. H. Nauta[2], E. J. Mulder[1] and A. de Bildt[1], (1)Child and Adolescent Psychiatry, University Medical Center Groningen, Groningen, Netherlands, (2)Department of Clinical Psychology and Experimental Psychopathology, University of Groningen, Groningen, Netherlands

4 157.004 Adapted Cognitive Behavior Therapy to Treat the Anxiety of Children with Autism and Low Verbal Ability J. Danial, UCLA, Woodland Hills, CA

5 157.005 An Exploratory Analysis of Intolerance of Uncertainty in the Response to CBT Intervention for Anxiety in Children and Adolescents with Autism Spectrum Disorder **A. Keefer**[1], N. L. Kreiser[1], V. Singh[1], A. Blakeley-Smith[2], A. W. Duncan[3], L. G. Klinger[4], A. T. Meyer[5], J. Reaven[2] and R. A. Vasa[1,6], (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Psychiatry, JFK Partners/University of Colorado School of Medicine, Aurora, CO, (3)Div of Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (5)Psychology, University of North Carolina, Chapel Hill, NC, (6)Johns Hopkins School of Medicine, Baltimore, MD

6 157.006 Assessment of Social Skills Training Needs in a Disability Community L. Buckley[1], C. M. Taylor[2] and **M. W. Mitchel**[3], (1)Bucknell University, Lewisburg, PA, (2)Geisinger Health System, Lewisburg, PA, (3)Geisinger Autism & Developmental Medicine Institute, Lewisburg, PA

7 157.007 Assessment-Based Peer-Mediated Social Competence Interventions for Children with Autism Spectrum Disorder **J. R. Martinez**[1], D. A. Prykanowski[1], M. A. Conroy[1], B. Werch[2], K. Reese[2] and K. Marsh[2], (1)College of Education, University of Florida, Gainesville, FL, (2)School Psychology, University of Florida, Gainesville, FL

8 157.008 Associations of Health Related Quality of Life and Adaptive Skills Functioning in Children Diagnosed with ASD:Implications for Treatment Planning **T. A. Hall**[1], A. P. Hill[2] and E. J. Fombonne[2], (1)Pediatrics, Oregon Health & Science University, Portland, OR, (2)Oregon Health & Science University, Portland, OR

9 157.009 CPRT Fidelity of Implementation: An Examination of Antecedent and Consequence Strategies in Relation to Student Active Engagement **S. F. Vejnoska**[1], S. R. Rieth[2], J. Suhrheinrich[3], T. Wang[4] and A. C. Stahmer[4], (1)Child and Adolescent Services Research Center, University of California, San Diego, San Diego, CA, (2)Child and Family Development, San Diego State University, San Diego, CA, (3)University of California, San Diego, La Jolla, CA, (4)Psychiatry, University of California, San Diego, San Diego, CA

10 157.010 Can Robotic Interaction Improve Nonverbal Communication and Social Anxiety of Children with Autism Spectrum Disorders? **H. Kumazaki**[1,2], Y. Yoshikawa[3], Y. Matsumoto[4], S. Mizushima[5], T. X. Fujisawa[1], H. Kosaka[1], A. Tomoda[1], S. Nemoto[6], M. Nakano[7], M. Miyao[7], T. Maeda[2], H. Ishiguro[3], T. Muramatsu[2] and M. Mimura[2], (1)Research Center for Child Mental Development, University of Fukui, Yoshida-gun, Fukui Prefecture, Japan, (2)Department of Neuropsychiatry, School of Medicine, Keio University, Tokyo, Japan, (3)Graduate School of Engineering Science, Osaka University, Toyonaka, Japan, (4)The National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, (5)Research Center for Child Mental Development of University of Fukui, University of Osaka, Yoshida-gun, Fukui Prefecture, Japan, (6)Donguri clinic for developmental disorders, Tokyo, Japan, (7)National Center for Child Health and Development, Tokyo, Japan

11 157.011 Change in Expressed Emotion As a Marker for Intervention Effectiveness in the Parents of Individuals with High Functioning Autism **M. B. Steinfeld**[1], I. N. Leckliter[2], D. J. Tancredi[3], K. Singh[4], I. Jalnapurkar[5], A. Schneider[6], J. Gunther[7], D. Roa[8] and M. Solomon[9], (1)UC Davis Medical Center, Sacramento, CA, (2)Pediatrics, UC Davis School of Medicine MIND Institute, Sacramento, CA, (3)Pediatrics, University of California Davis, Sacramento, CA, (4)Private Practice, Sacramento, CA, (5)Psychiatry, University of Texas Health Sciences Center, Houston, TX, (6)Pediatrics, University of California at Davis, Sacramento, CA, (7)University of California Davis MIND Institute, Sacramento, CA, (8)MIND Institute, UC Davis School of Medicine, Sacramento, CA, (9)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, Sacramento, CA

12 157.012 Characterizing Change in Social Skills and Executive Functioning after Social Competence Intervention in Youth with ASD **K. Bellesheim**[1], J. Stichter[1], R. M. O'Donnell[2] and M. Herzog[1], (1)University of Missouri, Columbia, MO, (2)Educational, School, and Counseling Psychology, University of Missouri, Columbia, MO

13 157.013 Clinical Trials of Deep Repetitive Transcranial Magnetic Stimulation (rTMS) to Bilateral Dorsomedial Prefrontal Cortex in Autism Spectrum Disorder **P. G. Enticott**, Cognitive Neuroscience Unit, School of Psychology, Deakin University, Burwood, Australia

14 157.014 Component Analysis of Pivotal Response Training: Child Preferred-Materials and Reinforcement Strategies **H. S. Lee**[1], T. Wang[1], J. Suhrheinrich[1], N. Chan[1] and A. C. Stahmer[1,2], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Rady Children's Hospital, San Diego, San Diego, CA

15 157.015 Determining Appropriateness of a Mobile Technology Application to Treat Prosodic Deficits in ASD **E. Schoen Simmons**[1], C. A. Wall[1], R. Paul[2] and F. Shic[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Sacred Heart University, Fairfield, CT

16 157.016 Does Compass Improve Common Elements of Instructional Quality? **L. A. Ruble**[1], W. H. Wong[1], A. D. Rodgers[1], J. Grisham-Brown[2], M. Moon[1] and J. H. McGrew[3], (1)University of Kentucky, Lexington, KY, (2)Early Childhood,k Special Education, & Rehabilitation Counseling, University of Kentucky, Lexington, KY, (3)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN

17 157.017 Does Pivotal Response Training Moderate the Effect of Social Anxiety Symptoms on Student Outcomes? **M. Pellecchia**[1], J. Miller[2], M. Xie[1] and D. S. Mandell[1], (1)Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

18 157.018 Driving Simulator Performance in Adolescents with Autism Spectrum Disorder: The Role of Executive Functions and Basic Motor Skills **S. M. Cox**[1], D. J. Cox[2], M. J. Kofler[1], M. A. Moncrief[2], R. E. Reeve[1], R. J. Johnson[2] and A. E. Lambert[2], (1)Curry School of Education, University of Virginia, Charlottesville, VA, (2)Psychiatry and Neurobehavioral Sciences, University of Virginia, Charlottesville, VA

19 157.019 Efficacy of the Multi-Media Social Skills Project for Adolescents with ASD **M. Murray**, A. M. Pearl, S. M. Minnick, A. N. Heintzelman and K. C. Durica, Department of Psychiatry, Penn State Hershey, Hershey, PA

20 157.020 Enhancing Cognitive Processing of Complex Emotional Cues in Young Adults on the Autism Spectrum through an Online Intervention **C. I. Mitchell**[1], J. Zeman[2], C. L. Dickter[3], J. Burk[4], K. Chaney[5], J. D. Ball[6] and M. R. Urbano[6], (1)College of William & Mary, Williamsburg, VA, (2)College of WIlliam and Mary, Williamsburg, VA, (3)College of Wiliam and Mary, Williamsburg, VA, (4)College of William and Mary, Williamsburg, VA, (5)Rutgers University, Piscataway, NJ, (6)Eastern Virginia Medical School, Norfolk, VA

21 157.021 Establishing Predictors of Outcomes of the Social Competence Intervention for Adolescents (SCI-A) **R. M. O'Donnell**[1] and J. Stichter[2], (1)Educational, School, and Counseling Psychology, University of Missouri, Columbia, MO, (2)Special Education, University of Missouri, Columbia, MO

22 157.022 Everything They Wanted to Know about Sex but Were Afraid to Ask: Assessing Knowledge of Sexuality and Relationships with Parents and Children with ASD **L. G. Anthony**[1], Y. Granader[1], A. Bowen[2], K. M. Dudley[1], C. E. Pugliese[1], A. B. Ratto[1] and C. Baker[2], (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Danya International, Inc, Silver Spring, MD

23 157.023 Examining Therapeutic Alliance in an Emotion Regulation Intervention for Children with Autism Spectrum Disorder P. Burnham Riosa[1], M. Khan[2], K. M. Thomson[3] and J. A. Weiss[4], (1)York University, Toronto, ON, Canada, (2)Department of Psychology, York University, Toronto, ON, Canada, (3)Centre for Applied Disability Studies, Brock University, St Catharines, ON, Canada, (4)Psychology, York University, Toronto, ON, Canada

24 157.024 Examining Treatment Implementation in Secondary Education Settings S. L. Odom[1], K. Hume[2], J. R. Dykstra Steinbrenner[3], E. Carter[4], L. E. Smith[5], C. K. Reutebuch[6], D. Test[7], D. Browder[7,8], S. Vaughn[9] and S. J. Rogers[10], (1)University of North Carolina, Chapel Hill, NC, (2)University of North Carolina at Chapel HIll, Chapel Hill, NC, (3)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Carrboro, NC, (4)Special Education, Vanderbilt University, Nashville, TN, (5)University of Wisconsin-Madison, Madison, WI, (6)The Meadows Center for Preventing Educational Risk, The University of Texas at Austin, Austin, TX, (7)University of North Carolina at Charlotte, Charlotte, NC, (8)Department of Special Education, University of North Carolina at Charlotte, Charlotte, NC, Albania, (9)The Meadows Center, University of Texas at Austin, Austin, TX, (10)University of California at Davis, Sacramento, CA

25 ▸ 157.025 Exploring the Role of Child Ethnicity on Community Therapist Delivery of a Mental Health Intervention for ASD L. Brookman-Frazee, Child and Adolescent Services Research Center, San Diego, CA

26 157.026 GREAT Expectations: The Influence of Parent Outcome Expectancies on Social Skills Gains in Children with Autism Spectrum Disorder K. Tang[1], A. Dammann[2], M. Won[1], N. Hartman[3], A. J. Flatley[1], K. Kawalec[1], H. N. Van Steenwyk[1], C. R. Crowell[1], M. Villano[1], K. G. Wier[1,4] and J. J. Diehl[5], (1)University of Notre Dame, Notre Dame, IN, (2)Feinberg School of Medicine, Northwestern University, Chicago, IL, (3)St. Mary's College, Notre Dame, IN, (4)Sonya Ansari Center for Autism, St. Joseph, MI, (5)University of Notre Dame, LOGAN Community Resources, Inc., Notre Dame, IN

27 157.027 Hyperthermia and the Improvement of Autism Spectrum Disorder (ASD) Symptoms C. J. Ferretti[1], B. P. Taylor[2], R. Noone[3], E. Racine[3], E. Doernberg[3] and E. Hollander[4], (1)Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (2)Dept. Of Psychiatry and Behavioral Sciences, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY, (3)Psychiatry, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, (4)Dept. of Psychiatry and Behavioral Sciences, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY

28 157.028 Implementation of a Computer-Assisted Intervention with Preschool and School-Aged Children Who Have Autism in Public Schools J. Simon[1] and K. R. MacDonald[2], (1)TeachTown, Boulder, CO, (2)TeachTown Inc., Seattle, DC

29 157.029 Improvements in Block Design Task Following Flexibility Intervention Related to Increased Time Spent on Items C. Luong-Tran[1], L. G. Anthony[2], M. Wills[3], J. Sokoloff[3], K. M. Dudley[2], A. C. Armour[2], Y. Granader[2], J. F. Strang[2], M. A. Werner[4], J. L. Martucci[2], L. Mohamed[5], C. Haake[6] and L. Kenworthy[7], (1)Children's National Medical Center, Rockville, MD, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)CNMC, Rockville, MD, (4)Model Asperger Program, Ivymount School, Rockville, MD, (5)Children's National Health System, Rockville, MD, (6)Department of Neuropsychology, Children's National Medical Center, Rockville, MD, (7)Children's Research Institute, Children's National Medical Center, Washington, DC

30 157.030 Improvements to Subjective Social Impression Ratings Associated with Participation in the START Social Skills Program for Adolescents with ASD A. R. Miller, T. W. Vernon, V. L. Wu, R. Arellano, C. Simson, M. Shields, T. Schick, M. Rosen, H. Palmer, J. Love, B. Fell and J. De Jesus, Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

31 157.031 Improving Fidelity Measurement of Pivotal Response Training to Increase Systematic Use N. Chan[1], J. Suhrheinrich[2], T. Wang[2], H. S. Lee[2] and A. C. Stahmer[2], (1)University of California, San Diego, San Diego, CA, (2)Psychiatry, University of California, San Diego, San Diego, CA

32 157.032 Improving Oral Hygiene in Children with ASD Using Video Modeled Social Stories: A Pilot Study B. S. Popple[1], C. A. Wall[2], L. Flink[3], K. K. Powell[2], D. B. Keck[1], F. R. Volkmar[2] and F. Shic[3], (1)Dentistry, Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Child Study Center, Yale University School of Medicine, New Haven, CT

33 157.033 Improving Reaction Time, Static Balance Control, and Gait in Adults with Autism Spectrum Disorder and an Intellectual Disability: An Exercise Intervention Study N. R. Azar, K. Carr, S. Horton and C. A. Sutherland, Kinesiology, University of Windsor, Windsor, ON, Canada

34 ▸ 157.034 Inclusive Education of Children with ASD in Argentina. Support Teachers and Support Devices D. Valdez[1] and L. A. Gomez[2], (1)FLACSO, Provincia de Buenos Aires, Buenos Aires, Argentina, (2)FLACSO, Buenos Aires, Argentina

35 157.035 It's Not Just a Guy Thing: Identifying Socially Valid Interventions to Address the Complex Needs of Adolescent Girls with ASD R. Jamison[1] and J. Schuttler[2], (1)Pediatrics, CCHD, KU Medical Center, Kansas City, KS, (2)Center for Child Health and Development, University of Kansas Medical Center, Kansas City, KS

36 157.036 Meta-Analysis of Parent Skills Training for Parents of Children with Autism Spectrum Disorder B. Reichow[1] and C. Servili[2], (1)University of Florida, Gainesville, FL, (2)World Health Organization, Geneva, Switzerland

37 157.037 Mindfulness in Intellectual and Developmental Disabilities M. Lense[1,2], N. Miodrag[3] and E. Dykens[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University, Atlanta, GA, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)California State University, Northridge, Northridge, CA

38 157.038 Movement and Synchrony in Interactions By Adolescents and Adults in Dance/Movement Therapy E. Manders[1], S. C. Koch[2], S. Goodill[1], M. Polansky[3], K. Fisher[4], E. Giarelli[5] and T. Fuchs[6], (1)Creative Arts Therapies, Drexel University, Philadelphia, PA, (2)Faculty for Therapeutic Sciences, SRH Hochschule Heidelberg, Heidelberg, Germany, (3)Epidemiology and Biostatistics, Drexel University, Philadelphia, PA, (4)Nursing, Drexel University, Philadelphia, PA, (5)Doctoral Nursing, Drexel University, Philadelphia, PA, (6)University of Heidelberg Medical Clinic, Heidelberg, Germany

39 157.039 Neural Predictors of Treatment Response to Social Skills Training in Children with Autism—Findings from a Randomized, Comparative Study K. Ibrahim[1,2,3], L. V. Soorya[4], S. Soffes[1], D. B. Halpern[1], A. Kolevzon[1], J. D. Buxbaum[1] and A. T. Wang[1], (1)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Yale Child Study Center, New Haven, CT, (3)University of Hartford, West Hartford, CT, (4)Psychiatry, Rush University Medical Center, Chicago, IL

40 157.040 Novel Music Intervention Model and Its Effects on Transition from Minimally Verbal to Verbal in Autism Spectrum Disorders T. Kuddo, Thea Kuddo M.D., North Bethesda, MD

41 157.041 Novel Neuromodulation Therapy Integrating rTMS and Neurofeedback for the Treatment of Autism Spectrum Disorders M. F. Casanova[1], E. M. Sokhadze[1], A. S. El-Baz[2], A. Tasman[1], Y. Wang[1] and L. L. Sears[3], (1)Psychiatry and Behavioral Science, University of Louisville, Louisville, KY, (2)Bioengineering, University of Louisville, Louisville, KY, (3)University of Louisville, Louisville, KY

42 157.042 PEERS® in New York City: An Initial Feasibility Effort R. Shalev[1], S. Kuriakose[1], M. Gordillo[1], R. Doggett[1], H. R. Brown[2], K. Campos[1], M. N. Park[3], E. A. Laugeson[4] and A. Di Martino[5], (1)NYU Child Study Center, New York, NY, (2)Child Psychiatry, NYU Child Study Center, New York, NY, (3)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (5)Room 8-416, NYU Child Study Center, New York, NY

43 157.043 Parent Perspectives on the Impact of a Sexuality and Relationships Group Education Program for Adolescents with ASD and Their Parents L. L. Corona[1], S. A. Fox[1] and K. V. Christodulu[2], (1)University at Albany, SUNY, Albany, NY, (2)Center for Autism and Related Disabilities, University at Albany, SUNY, Albany, NY

44 157.044 Parent Variables in Responder Status in a CBT for Children with ASD R. S. Factor, H. Gordon, D. Swain and A. Scarpa, Virginia Polytechnic Institution and State University, Blacksburg, VA

45 157.045 Participation in a Social Competence Intervention in a Private Clinical Setting and the Impact of Anxiety and Emotion Dysregulation in ASD S. I. Habayeb[1], B. Rich[1] and M. Alvord[2], (1)Department of Psychology, The Catholic University of America, Washington, DC, (2)Alvord, Baker, & Associates, Rockville, MD

46 157.046 Peer-Mediated Pivotal Response Treatment for Young Children with Autism Spectrum Disorder at School A. Boudreau[1], P. Corkum[1], K. I. Meko[2] and I. M. Smith[3], (1)Dalhousie University, Halifax, NS, Canada, (2)IWK Health Centre, Halifax, NS, Canada, (3)Dalhousie University / IWK Health Centre, Halifax, NS, Canada

47 157.047 Perceptions of Friendships in School-Aged Children with Autism Spectrum Disorder L. Huynh[1], Y. C. Chang[2], W. Shih[3] and C. Kasari[4], (1)University of California, Los Angeles, Los Angeles, CA, (2)Semel Institute, UCLA, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)UCLA Center for Autism Research & Treatment, Westwood, CA

48 157.048 Performance Feedback Procedures for Sleep Protocol J. E. Connell[1] and M. C. Souders[2], (1)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA

49 157.049 Physical Activity Among Children with Intellectual and Developmental Disabilities K. L. Staples, University of Regina, Regina, SK, Canada

50 157.050 Pilot Randomized Clinical Trial of a Wireless Moisture Pager for Toileting Training Children with Autism Spectrum Disorder D. W. Mruzek[1], S. McAleavey[2], W. A. Loring[3], E. Butter[4], T. Smith[5], C. Aponte[6], L. Levato[6], R. E. Aiello[7], R. P. Travis[8] and K. Zanibbi[6], (1)University of Rochester Medical Center, Rochester, NY, (2)Biomedical Engineering, University of Rochester, Rochester, NY, (3)Vanderbilt University Medical Center, Nashville, TN, (4)Nationwide Children's Hospital, Westerville, OH, (5)601 Elmwood Ave, Box 671, University of Rochester, Rochester, NY, (6)Pediatrics, University of Rochester Medical Center, Rochester, NY, (7)TEACCH Autism Program, University of North Carolina at Chapel Hill, Charlotte, NC, (8)Pediatrics, Vanderbilt University, Nashville, TN

51 157.051 Pilot Study of a Tailored Behavioral Intervention for Insomnia in Children with Autism Spectrum Disorder M. C. Souders[1], W. T. Eriksen[2], C. M. Kerns[3], S. Zavodny[4], A. Ellison[5], R. Sinko[6], R. Schaaf[7], L. Guy[8], B. A. Malow[9] and J. E. Connell[10], (1)Behavioral Sciences, University of Pennsylvania, Philadelphia, PA, (2)University of Pennsylvania School of Nursing, Philadelphia, PA, PA, (3)Drexel University, Philadelphia, PA, (4)University of Pennsylvania, Philadelphia, PA, (5)Center for the Urban Child, St. Christophers Hospital for Children, Philadelphia, PA, (6)Occupational Therapy, Jefferson University, Philadelphia, PA, (7)Occupational Therapy, Thomas Jefferson University, Philadelphia, PA, (8)TEACCH, The University of North Carolina, Chapel Hill, NC, (9)Vanderbilt Kennedy Center, Vanderbilt University Medical Center, Nashville, TN, (10)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

52 157.052 Postural Control Outcomes Following Taekwondo and Videogame Activities in Youth with Autism Spectrum Disorder J. C. Lim[1], Y. Kim[1], T. Todd[2], K. Vrongistinos[1], M. A. Mache[3] and T. Jung[1], (1)Kinesiology, California State University, Northridge, Northridge, CA, (2)Kinesiology, California State University,Northridge, Northridge, CA, (3)Kinesiology, California State University, Chico, Chico, CA

53 157.053 Predicting Treatment Outcome of the PEERS® School-Based Curriculum for Adolescents with ASD C. C. Bolton[1], L. Tucci[2], Y. Bolourian[3] and E. A. Laugeson[4], (1)The Help Group/UCLA Autism Research Alliance, Sherman Oaks, CA, (2)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (3)The Help Group - UCLA Autism Research Alliance, Moorpark, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

54 157.054 Predictors of Companionship for Adolescents with ASD Following the School-Based PEERS® Curriculum J. W. Yang[1], J. Sanchez[2], Y. Bolourian[3] and E. A. Laugeson[2], (1)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (2)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (3)The Help Group - UCLA Autism Research Alliance, Moorpark, CA

55 157.055 Preliminary Outcomes of an Emotion Regulation Intervention for Children with Autism Spectrum Disorder K. M. Thomson[1], P. Burnham Riosa[2] and J. A. Weiss[2], (1)Centre for Applied Disability Studies, Brock University, St Catharines, ON, Canada, (2)Psychology, York University, Toronto, ON, Canada

56 157.056 Psycho-Education for High-Functioning Adults with Autism Spectrum Disorder: Summary and Outcomes from a Novel Intervention H. L. Hayward[1], C. E. Wilson[2], N. Gillan[3], E. L. Woodhouse[4], D. Spain[2], G. Roberts[5], J. E. Faulkner[6], N. Hammond[3], D. G. Murphy[7], C. M. Murphy[3] and D. M. Robertson[8], (1)Institute of Psychiatry, King's College London, London, England, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Behavioural Genetics Clinic, South London and Maudsley NHS trust, London, United Kingdom, (4)Institute of Psychiatry, King's College London, London, United Kingdom, (5)Bristol Autism Spectrum Service, Avon and Wiltshire Mental Health Partnership NHS Trust, BRISTOL, United Kingdom, (6)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (8)Behavioural Genetics Clinic, South London and Maudsley NHS Foundation Trust, London, United Kingdom

57 ▸ 157.057 Reaching the Unreachable: Providing an Intentional Staff Training on Naturalistic Behavioral Assessment for Challenging Behaviors F. Alnemary, University of California, Los Angeles, Los Angeles, CA

58 157.058 Repetitive Transcranial Magnetic Stimulation for Executive Function Deficits in Autism Spectrum Disorder and Effects on Brain Structure and Function S. Ameis, Center for Addiction and Mental Health, University of Toronto, Toronto, ON, Canada

59 157.059 Self-Esteem Predicting Changes in Friendship Quality for Adolescents with Autism Spectrum Disorder: The UCLA PEERS® for Adolescents Program D. C. Missler[1], E. Veytsman[1], R. Ellingsen[2] and E. A. Laugeson[3], (1)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

60 157.060 Sensorimotor Enrichment As an Autism Treatment M. Leon[1] and C. C. Woo[2], (1)Neurobiology and Behavior, University of California, Irvine, Irvine, CA, (2)Neurobiology and Behavior, University of California Irvine, Irvine, CA

61 157.061 Sensory Adapted Dental Environments: Reducing Distress during Dental Cleanings in Children with Autism Spectrum Disorders
S. A. Cermak[1], L. Stein[1], C. J. Lane[2], M. E. Williams[3], M. E. Dawson[4] and J. C. Polido[5], (1)Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (2)Preventive Medicine - Biostatistics, University of Southern California, Los Angeles, CA, (3)University Center for Excellence in Developmental Disabilities, Keck School of Medicine of USC, Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA, (4)Psychology, University of Southern California, Los Angeles, CA, (5)Dentistry, Children's Hospital Los Angeles, Los Angeles, CA

62 157.062 Sensory Processing and Insomnia
R. Schaaf, Thomas Jefferson University, Phildalphia, PA

63 157.063 Social Skills Group Training for Children and Adolescents with Autism Spectrum Disorder, Kontakt: A Qualitative Responder Analysis
N. Choque Olsson[1,2], D. Rautio[2], J. Asztalos[2], U. Stoetzer[3,4] and S. Bolte[1,2], (1)Center of neurodevelopmental disorders, Karolinska Institutet, Stockholm, Sweden, (2)Division of Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden, (3)Institute of Environmental Medicine, Karolinska Institutet, Sotckholm, Sweden, (4)Stockholm County Council, Stockholm, Sweden

64 157.064 Social Skills Groups for Children with Developmental Disabilities: Issues of Providing Care in Rural Communities
M. W. Mitchel[1], L. Buckley[2], N. Soares[3] and C. M. Taylor[3], (1)Geisinger Autism & Developmental Medicine Institute, Lewisburg, PA, (2)Bucknell University, Lewisburg, PA, (3)Geisinger Autism & Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA

65 157.065 Social-Emotional Development for Adolescents with Autism through Video Modeling
M. McCubbin[1], J. Hood[2] and D. Armstrong[2], (1)G.R.O.W. Program, Carmen B. Pingree Autism Center of Learning, Salt Lake City, UT, (2)Carmen B. Pingree Autism Center of Learning, Salt Lake City, UT

66 157.066 Tailored Behavioral Intervention for Children with ASD and Insomnia
M. C. Souders[1], W. T. Eriksen[2], S. Zavodny[1] and A. Ellison[3], (1)University of Pennsylvania, Philadelphia, PA, (2)University of Pennsylvania School of Nursing, Philadelphia, PA, PA, (3)Center for the Urban Child, St. Christophers Hospital for Children, Philadelphia, PA

67 157.067 The Advancing Social-Communication and Play (ASAP) Intervention in Elementary School Settings: A Single Case Design Study
J. R. Dykstra Steinbrenner[1] and C. Sethi[2], (1)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Carrboro, NC, (2)Department of Occupational Science and Occupational Therapy, University of North Carolina at Chapel Hill, Chapel Hill, NC

68 157.068 The Effectiveness of Interventions for Adults with ASD: A Meta-Analysis
T. M. Belkin[1], A. D. Rodgers[2] and J. H. McGrew[3], (1)Indiana University- Purdue University Indianapolis, Indianapolis, IN, (2)Department of Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (3)Clinical Psychology, Indiana University- Purdue University Indianapolis, Indianapolis, IN

69 157.069 The Effects of Auditory Integration Training (AIT) on Mismatch Negativity in Children with Autism
E. M. Sokhadze[1], S. M. Edelson[2], L. L. Sears[3], M. F. Casanova[4], A. Tasman[5] and S. Brockett[6], (1)Psychiatry and Behavioral Science, University of Louisville, Louisville, KY, (2)Autism Research Institute, San Diego, CA, (3)University of Louisville, Louisville, KY, (4)Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY, (5)Psychiatry & Behavioral Sciences, University of Louisville, Louisville, KY, (6)IDEA Training Center, North Haven, CT

70 157.070 The Effects of Embodied Rhythm and Robotic Interventions on the Repetitive and Negative Behaviors of Children with Autism Between 5 and 12 Years of Age
M. Reiss[1], S. Srinivasan[2] and A. N. Bhat[1,2,3], (1)Department of Kinesiology, University of Connecticut, Storrs, CT, (2)Department of Physical Therapy, University of Delaware, Newark, DE, (3)Center for Health, Intervention & Prevention, Department of Psychology, University of Connecticut, Storrs, CT

71 157.071 The Effects of Rhythm Interventions on Social Attention and Verbalization Skills of Children with Autism Spectrum Disorders
C. O'Hara[1], S. Srinivasan[2], C. Korgaonkar[1], I. Park[1], L. P. Neelly[3] and A. N. Bhat[1,2,4], (1)Department of Kinesiology, University of Connecticut, Storrs, CT, (2)Department of Physical Therapy, University of Delaware, Newark, DE, (3)Music Education, University of Connecticut, Storrs, CT, (4)Center for Health, Intervention & Prevention, Department of Psychology, University of Connecticut, Storrs, CT

72 157.072 The Effects of Robot-Child Interactions on Social Attention and Verbalization Patterns of Children with Autism Between 5 and 12 Years of Age
C. Korgaonkar[1], S. Srinivasan[2], C. O'Hara[1], M. Kaur[2], T. Gifford[3] and A. N. Bhat[1,2,3], (1)Department of Kinesiology, University of Connecticut, Storrs, CT, (2)Department of Physical Therapy, University of Delaware, Newark, DE, (3)Center for Health, Intervention & Prevention, Department of Psychology, University of Connecticut, Storrs, CT

73 157.073 The Impact of the PEERS® Intervention on Social Phobia in Young Adults with ASD
A. J. McVey[1], B. Dolan[1], K. A. Schohl[1], S. Stevens[1], J. S. Karst[1], A. M. Carson[2], C. L. Casnar[3], S. Timmer-Murillo[1], E. Vogt[1], S. A. Chesney[1], K. Reiter[1], N. Gordon[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Psychology, Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (3)University of Wisconsin Milwaukee, Milwaukee, WI

74 157.074 The Relationship Between Social Communication and Social Anxiety in Young Adults with Autism Spectrum Disorder
J. Sanchez[1], Y. Bolourian[2], L. C. Tucci[3] and E. A. Laugeson[4], (1)UCLA Semel Institute for Neuroscience and Human Behavior, Sherman Oaks, CA, (2)The Help Group - UCLA Autism Research Alliance, Moorpark, CA, (3)The Help Group/UCLA Autism Research Alliance, Redondo Beach , CA, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

75 157.075 Training Paraprofessionals to Improve Social Skills in Students with Autism Spectrum Disorders
S. Kim[1], R. L. Koegel[2] and L. K. Koegel[2], (1)Education, University of California, Santa Barbara, Santa Barbara, CA, (2)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

76 157.076 Training Social Workers: Implementing Social Skills Programming within Schools
C. S. Flint, K. Johnsen, S. Lamontagne and J. Salt, HAVE Dreams, Park Ridge, IL

77 157.077 Transcranial Magnetic Stimulation Provides a Means to Investigate Cortical Excitability and Plasticity in Autism Spectrum Disorder
L. M. Oberman, Brown University, Providence, RI

78 157.078 Transcranial Magnetic Stimulation Treatment: Focusing on Core Pathological Features of Autism Spectrum Disorders
M. F. Casanova, Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY

79 157.079 Transition to University: An Intervention for Students with Autism Spectrum Disorder
A. J. Russell[1], S. Lambe[2], S. K. Fletcher[1], C. Ashwin[3] and M. Brosnan[1], (1)University of Bath, Bath, United Kingdom, (2)Psychology, University of Bath, Bath, United Kingdom, (3)Dept. of Psychology, University of Bath, Bath, United Kingdom

80 157.080 Treatment Compliance As a Predictor of Treatment Outcome in Adolescents with Autism Spectrum Disorder Following the PEERS® Social Skills Intervention **E. Veytsman**[1], D. C. Missler[1], R. Ellingsen[2] and E. A. Laugeson[3], (1)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

81 157.081 Usability Testing of ADD.It, a Technology Based Intervention for Children with HFA and/ or ADHD **J. Morstein**[1] and D. Groot[2], (1)Pediatrics/Behavioral Healht, University of Utah School of Medicine, Salt Lake City, UT, (2)Social Work, Wichata State, Wichata, KS

82 157.082 Using a Summer Robotics Camp to Reduce Social Anxiety and Improve Social/Vocational Skills in ASD **J. J. Diehl**[1], J. Kaboski[2], J. Beriont[2], M. Villano[2], K. Tang[3], H. Miller[3], A. J. Flatley[3], N. Hartman[4], K. Kawalec[3], M. Prough[3], L. T. Simon[5], H. N. Van Steenwyk[3], W. McWherter[2], M. Won[3] and C. R. Crowell[3], (1)University of Notre Dame, LOGAN Community Resources, Inc., Notre Dame, IN, (2)Psychology, University of Notre Dame, Notre Dame, IN, (3)University of Notre Dame, Notre Dame, IN, (4)St. Mary's College, Notre Dame, IN, (5)Saint Mary's College, Notre Dame, IN

83 157.083 Who Responds to Cognitive-Behavioral Group Treatment? Associations Between Anxiety Symptom Reduction and Autism Symptom Domains **P. Schoultz**[1], J. Reaven[2], A. Blakeley-Smith[2] and S. L. Hepburn[3], (1)JFK Partners, University of Colorado Denver, Aurora, CO, (2)Psychiatry, JFK Partners/University of Colorado School of Medicine, Aurora, CO, (3)Psychiatry & Pediatrics, JFK Partners/University of Colorado School of Medicine, Aurora, CO

Poster Session
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84 158.084 A Longitudinal Examination of Adaptive Behavior in Youth with Autism Spectrum Disorder: Contributions of Executive Function **C. E. Pugliese**[1], L. G. Anthony[2], J. F. Strang[2], K. M. Dudley[2], G. Wallace[3], D. Q. Naiman[4], A. B. Ratto[5] and L. Kenworthy[6], (1)Children's National Medical Center, Washington, DC, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)NIMH Intramural Research Program, Bethesda, MD, (4)Applied Mathematics and Statistics, Johns Hopkins University, Baltimore, MD, (5)Children's National Health System, Silver Spring, MD, (6)Children's Research Institute, Children's National Medical Center, Washington, DC

85 158.085 A Mixed Methods Study of Physician Knowledge and Experience with Autism in Adults **M. L. Massolo**, O. Zerbo, Y. Qian and L. A. Croen, Division of Research, Kaiser Permanente Northern California, Oakland, CA

86 158.086 A Multi-Method Approach to Examining Correlates of Sleep Quality, Individual Well-Being, and Mother-Child Relationship Quality in Adolescents with Autism Spectrum Disorder **J. Phung**[1], M. M. Abdullah[2], V. E. Custodio[3] and W. A. Goldberg[4], (1)University of California Irvine, University of California, Irvine, Irvine, CA, (2)University of California, Irvine, Irvine, CA, (3)Department of Informatics, University of California, Irvine, Irvine, CA, (4)Psychology and Social Behavior, University of California, Irvine, Irvine, CA

87 158.087 Adaptive Functioning during the Transition to Adulthood and Beyond **N. L. Matthews**[1], C. J. Smith[2], E. Pollard[3], S. E. Ober-Reynolds[4], J. Kirwan[1] and A. M. Malligo[1], (1)Southwest Autism Research and Resource Center, Phoenix, AZ, (2)Research, Southwest Autism Research & Resource Center, Phoenix, AZ, (3)Research, SARRC, Phoenix, AZ, (4)Southwest Autism Research & Resource Center (SARRC), Phoenix, AZ

88 158.088 Characterizing the Daily Life, Needs, and Priorities of Adults with ASD **K. Gotham**[1], A. R. Marvin[2], J. L. Taylor[3], Z. Warren[1], C. M. Anderson[4], P. A. Law[5], J. K. Law[6] and P. H. Lipkin[7], (1)Vanderbilt University, Nashville, TN, (2)3825 Greenspring Avenue/Painter Building 1st Floor, Kennedy Krieger Institute, Baltimore, MD, (3)Vanderbilt Kennedy Center, Nashville, TN, (4)Kennedy Krieger Institute, Baltimore, MD, (5)Congo Protestant University, Baltimore, MD, (6)Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, (7)Pediatrics/ Neurology and Developmental Medicine, Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD

89 158.089 Conceptualizing an Effective Mentorship Program for University Students with Autism Spectrum Disorder **N. K. Roberts**[1] and E. Birmingham[2], (1)Educational Psychology, Simon Fraser University, Vancouver, BC, Canada, (2)Faculty of Education, Simon Fraser University, Burnaby, BC, Canada

90 ▸ 158.090 Cross-Cultural Comparison of Everyday Participation in Males and Females with Asperger's Syndrome/High-Functioning Autism Living in Australia and Taiwan **Y. W. Chen**[1], A. C. Bundy[1], R. Cordier[2], Y. L. Chien[3] and S. L. Einfeld[4], (1)Faculty of Health Sciences, The University of Sydney, Lidcombe NSW, Australia, (2)Curtin University, Faculty of Health Sciences, Perth WA, Australia, (3)National Taiwan University, Taipei, Taiwan, (4)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia

91 158.091 Diagnostic Specificity of Motor Impairments: Comparison of Adults with ASD, ADHD, and Healthy Controls **H. M. Digby**[1], A. F. Mischel[1], S. Youngkin[1], E. Anagnostou[2] and L. V. Soorya[1], (1)Psychiatry, Rush University Medical Center, Chicago, IL, (2)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

92 158.092 Education and Employment Experiences of Adults with Autism Spectrum Disorder: Individual and Parent Perspectives **R. Y. Cai**[1], M. Uljarevic[2] and A. L. Richdale[3], (1)Olga Tennison Autism Research Centre, Melbourne, VIC, Australia, (2)Olga Tennison Autism Research Centre, Melbourne, Australia, (3)Cooperative Research Centre for Living with Autism Spectrum Disorders (Autism CRC), Brisbane, Australia

93 158.093 Embracing Neurodiversity in Higher Education: Creating an Inclusive College Campus for Neurodiverse Students **J. E. Robison**[1], J. Burk[2], J. Zeman[3], C. L. Dickter[4] and K. Wulf[5], (1)The College of William and Mary, Springfield, MA, (2)College of William and Mary, Williamsburg, VA, (3)College of WIlliam and Mary, Williamsburg, VA, (4)College of Wiliam and Mary, Williamsburg, VA, (5)The College of William & Mary, Williamsburg, VA

94 158.094 Executive Function, Anxiety, and Depression and Their Relationship to Core Social Difficulty in College Students with an ASD Diagnosis **S. M. Ryan**[1], M. B. Davis[1], L. K. Baker[1] and H. Noble[2], (1)The University of Alabama, Tuscaloosa, Tuscaloosa, AL, (2)University of Alabama, Tuscaloosa, AL

95 158.095 Introducing the OBSJ BASIC, an Innovative Tool to Monitor Behaviour That Challenges in Autism Spectrum Conditions and Learning Disability **D. Coton**[1], S. Parker[1] and S. Da Silva Ramos[2], (1)Autism Spectrum Partners, The Disabilities Trust, West Sussex, United Kingdom, (2)The Disabilities Trust, West Sussex, United Kingdom

WITHDRAWN

96 158.096 Learner and Novice Drivers with Attention Deficit Hyperactive Disorder or Autism Spectrum Disorder **T. Falkmer**, Curtin University, Perth, WA, Australia

97 158.097 Life Satisfaction of College Students with Autism Spectrum Disorders **L. K. Baker**[1], S. M. Ryan[2] and T. S. Tomeny[1], (1)Department of Psychology, The University of Alabama, Tuscaloosa, Tuscaloosa, AL, (2)The University of Alabama, Tuscaloosa, Tuscaloosa, AL

98 158.098 Longitudinal Associations of Social Problem-Solving and Emotion Regulation on Depression and Anxiety in Adults with High-Functioning Autism S. L. Jackson[1] and B. Dritschel[2], (1)School of Psychology & Neuroscience, University of St Andrews, St Andrews, United Kingdom, (2)University of St Andrews, St Andrews, United Kingdom

99 158.099 Marital Disagreements and Behavior Problems in Youth with Autism Spectrum Disorder: Natural Unfolding of Associations from Day-to-Day S. L. Hartley[1], L. M. Papp[2], P. M. Bussanich[2], I. Mihaila[2], H. Schultz[3] and S. Blumenstock[2], (1)Waisman Center and Human Development and Family Studies, University of Wisconsin-Madison, Madison, WI, (2)Human Development and Family Studies, University of Wisconsin-Madison, Madison, WI, (3)University of Wisconsin-Madison, Madison, WI

100 158.100 Mediators of Problem Behaviors and Psychosocial Outcomes in Siblings of Adults with Autism Spectrum Disorder and Down Syndrome Y. Yu[1], T. M. Belkin[2] and J. H. McGrew[3], (1)Clinical Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN, (2)Clinical Psychology, Indiana University- Purdue University Indianapolis, Carmel, IN, (3)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN

101 158.101 Mixed Methods Study with Latent Class Analysis on Identity and Post-Secondary Outcomes for Adults on the Autism Spectrum T A M. McDonald, University of Wisconsin- Madison, Madison, WI

102 158.102 Opening an Adult Autism Clinic: Understanding Patient Needs D. Tolson[1], S. J. Webb[2], G. A. Stobbe[3], M. G. Elrod[1], M. M. Dommermuth[2] and Z. Z. Shechter Nissim[2], (1)Pediatrics, Madigan Army Medical Center, JBLM, WA, (2)University of Washington, Seattle, WA, (3)Neurology, University of Washington, Seattle, WA

103 158.103 Parent Vs. Self-Report of Social Difficulty in College Students with an ASD Diagnosis S. M. Ryan[1], H. M. Davenport[1] and A. B. Barber[2], (1)The University of Alabama, Tuscaloosa, Tuscaloosa, AL, (2)Communicative Disorders, University of Alabama, Tuscaloosa, AL

104 158.104 Parents and Adults with Autism Spectrum Disorder: A Dyadic Study of Parent-Child Sexuality Communication L. Graham Holmes, M. B. Himle and D. S. Strassberg, Department of Psychology, University of Utah, Salt Lake City, UT

105 158.105 Predictors of Sexual Victimization and Perpetration in Adults with Autism Spectrum Disorders M. Hooper[1], M. A. Viecili[1], S. M. Brown-Lavoie[1] and J. A. Weiss[2], (1)York University, Toronto, ON, Canada, (2)Psychology, York University, Toronto, ON, Canada

106 158.106 Preliminary Results of the Multi-Media Social Skills Project for Young Adults with ASD A. M. Pearl, M. Murray, A. Layton, S. M. Minnick, P. Ulmen, D. Tiberie, K. C. Durica and A. N. Heintzelman, Department of Psychiatry, Penn State Hershey, Hershey, PA

107 158.107 Profiles and Outcomes of Comorbid ASD and ADHD from Childhood to Adulthood (From ages 6 through 25) J. Kaboski[1], B. Greenawalt[2], M. Clark[2], N. Hartman[3], K. Kawalec[4], A. J. Flatley[4] and J. J. Diehl[5], (1)Psychology, University of Notre Dame, South Bend, IN, (2)Center for Social Research, University of Notre Dame, Notre Dame, IN, (3)St. Mary's College, Notre Dame, IN, (4)University of Notre Dame, Notre Dame, IN, (5)Psychology, University of Notre Dame, Notre Dame, IN

108 158.108 Quality of Life in Emerging Adults with Autism Spectrum Disorder S. Carr, Virginia Commonwealth University, Richmond, VA

109 158.109 Research on Community Integration in Autism Spectrum Disorder: Lessons from Research on Psychosis A. M. Scheeren and H. M. Geurts, Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands

110 158.110 Self-Determination Skills in Transition-Age Youth with Autism Spectrum Disorder T. Oswald[1], N. S. McIntyre[2], L. E. Swain-Lerro[3], M. C. Zajic[2], M. Solomon[4] and P. C. Mundy[5], (1)2825 50th Street, UC Davis, Sacramento, CA, (2)UC Davis, Davis, CA, (3)School of Education, UC Davis, Santa Rosa, CA, (4)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, Sacramento, CA, (5)2825 50Th Street, UC Davis, Sacramento, CA

111 158.111 Self-Determination and Quality of Life in Young Adults with Autism Spectrum Disorders K. White[1], T. D. Flanagan[2] and A. Nadig[3], (1)McGill University, Lasalle, QC, Canada, (2)Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (3)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada

112 158.112 Self-Reported Interpersonal Violence Victimization in Adults with Autism Spectrum Disorders M. A. Viecili[1] and J. A. Weiss[2], (1)York University, Toronto, ON, Canada, (2)Psychology, York University, Toronto, ON, Canada

113 158.113 Sensory Processing Sensitivities and Personality in Adults with and without ASD B. Schwartzman[1], S. K. Kapp[2] and J. J. Wood[3], (1)UCLA, Los Angeles, CA, (2)University of California, Los Angeles, Culver City, CA, (3)Departments of Education and Psychiatry, University of California Los Angeles, Los Angeles, CA

114 158.114 Sexual Orientation and Gender-Identity in High-Functioning Individuals with Autism Spectrum Disorder R. George[1] and M. A. Stokes[2], (1)Psychology, Deakin University, Burwood, Australia, (2)Deakin University, Burwood, VIC, Australia

115 158.115 Speed-Dating with Autism: Initial Romantic Attraction with Adults with Autism Spectrum Disorder S. Whitham, UCLA, Los Angeles, CA

116 158.116 The Impact of Autism Spectrum Disorders in Higher Education: An Exploratory Study T. A. Jones[1], D. Olympia[2] and E. Clark[3], (1)Ogden School District, Ogden, UT, (2)Department of Educational Psychology, University of Utah, Salt Lake City, UT, (3)University of Utah, Salt Lake City, UT

117 158.117 The Importance of Social Support for Young Adults with High Functioning Autism Spectrum Disorder Transitioning to Adulthood A. K. Senland, Psychology, University of Saint Joseph, West Hartford, CT

118 158.118 The Montreal Cognitive Assessment Is a Superior Office Cognitive Screening Exam for Adults with Autism Spectrum Disorders B. K. Woodruff[1], D. E. Locke[2], J. G. Hentz[3], Y. E. Geda[4] and C. J. Smith[5], (1)Mayo Clinic Arizona, Scottsdale, AZ, (2)Neuropsychology, Mayo Clinic Arizona, Scottsdale, AZ, (3)Biostatistics, Mayo Clinic Arizona, Scottsdale, AZ, (4)Psychiatry and Neurology, Mayo Clinic Arizona, Scottsdale, AZ, (5)Research, Southwest Autism Research & Resource Center, Phoenix, AZ

119 158.119 The Prevalence and Correlates of Involvement in the Criminal Justice System Among Youth on the Autism Spectrum J. Rava[1], P. T. Shattuck[2], A. M. Roux[2] and J. Rast[3], (1)Drexel University, Glenmoore, PA, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (3)Drexel University, Philadelphia, PA

120 158.120 Two-Year College Students on the Autism Spectrum: Characteristics and Services Experiences A. M. Roux[1], P. T. Shattuck[1], X. Wei[2], J. W. Yu[3], M. McCracken[3], J. Rast[4] and J. Rava[1], (1)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (2)Education, SRI International, Menlo Park, CA, (3)SRI International, Menlo Park, CA, (4)Drexel University, Philadelphia, PA

121 158.121 Viewpoints on Driving of Individuals with and without Autism Spectrum Disorder T. Falkmer, Curtin University, Perth, WA, Australia

Poster Session
159 - Social Cognition and Social Behavior
5:30 PM - 7:00 PM - Imperial Ballroom

122 159.122 A Dynamic Systems Approach to Mother-Child Emotion Co-Regulation in Relation to Adaptive Functioning in Children with ASD Y. Guo[1], M. A. Garcia[2], S. Gutierrez[2], S. Kim[2], S. Merrell[2], C. Garibay[3], P. Martinez[3], S. Davia[2], V. Valentovich[2] and W. A. Goldberg[2], (1)Department of Nursing Science, University of California, Irvine, Irvine, CA, (2)Psychology and Social Behavior, University of California, Irvine, Irvine, CA, (3)University of California, Irvine, Irvine, CA

123 159.123 A Multi-Method Study of Empathic Responding in High-Risk Siblings at Preschool Age N. M. McDonald[1], H. Gordon[2] and D. S. Messinger[3], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Virginia Polytechnic Institution and State University, Blacksburg, VA, (3)University of Miami, Coral Gables, FL

124 159.124 A Novel Measure of Social Metaperception for Adolescents with and without High Functioning Autism: Reliability and Validity L. V. Usher[1], C. A. Burrows[1] and H. A. Henderson[2], (1)Psychology, University of Miami, Coral Gables, FL, (2)University of Waterloo, Waterloo, ON, Canada

125 159.125 A Pilot Study – Better Performance of Autism Spectrum Disorder Girls Compared to Boys in a Theory of Mind Test H. Nagar Shimoni, Maarot Center, Tel-Aviv Medical Center, Hod-Hasharon, Israel

126 159.126 Acceptance of Emotions As a Buffer for the Negative Effects of Inconsistent Discipline on Externalizing Behaviors in Children with ASD K. J. Hamilton[1], J. Sparrow[2], T. Ward[2], H. Dauterman[2], B. J. Wilson[2] and K. Ebadat[1], (1)Seattle Pacific University, Seattle, WA, (2)Clinical Psychology, Seattle Pacific University, Seattle, WA

127 159.127 Adolescent Judgments and Reasoning about the Failure to Include Peers with Social Disabilities K. M. Bottema-Beutel and Z. Li, Lynch School of Education, Boston College, Chestnut Hill, MA

128 159.128 Adolescent Peer Inclusion in Community Settings Versus Social Skills Group Training J. K. Mabey[1] and T. P. Gabrielsen[2], (1)Brigham Young University, Provo, UT, (2)Counseling, Psychology and Special Education, Brigham Young University, Provo, UT

129 159.129 Age and Cognitive Functioning Moderate Sex Differences in School-Age Children with Autism Spectrum Disorder J. Moriuchi[1,2], A. Klin[2] and W. Jones[2], (1)Emory University, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

130 159.130 Attention to Emotional Faces in Adults As a Function of Autism-Related Attention Switching Abilities C. L. Dickter[1], S. C. Taylor[2], J. Burk[2] and J. Zeman[3], (1)College of Wiliam and Mary, Williamsburg, VA, (2)College of William and Mary, Williamsburg, VA, (3)College of WIlliam and Mary, Williamsburg, VA

131 159.131 Atypical Theory of Mind in Children with Autism and Their Siblings K. R. Dobkins[1], S. J. Cohen[1], L. J. Carver[1], D. Liu[2], M. J. McIntire[1] and N. Akshoomoff[3], (1)Psychology, University of California, San Diego, La Jolla, CA, (2)Psychology, The University of Oklahoma, Norman, OK, (3)Psychiatry and Center for Human Development, University of California, San Diego, La Jolla, CA

132 159.132 Autism Spectrum Disorder Profile in Neurofibromatosis Type 1 S. K. Garg[1], E. Plasschaert[2], E. Legius[3] and J. Green[4], (1)Institute of Brain Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom, (2)Centre of Human Genetics, Leuven, Belgium, (3)Human Genetics, KULeuven, Leuven, Belgium, (4)Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom

133 159.133 Characterizing Play in Children with ASD: Differences in Joint Attention and Requesting Across Play Levels H. Gould[1], J. Panganiban[2], Y. C. Chang[3], S. Y. Shire[1] and C. Kasari[4], (1)Semel Institute of Neuroscience and Human Behavior, UCLA, Los Angeles, CA, (2)University of California, Los Angeles, Arcadia, CA, (3)Semel Institute, UCLA, Los Angeles, CA, (4)UCLA Center for Autism Research & Treatment, Westwood, CA

134 159.134 Characterizing Social Cognitive Deficits in High-Functioning Autism Spectrum Disorders and Schizophrenia S. Brocke[1], K. Cook[2], C. Winters[1], S. Corbera[1,2], G. Pearlson[1,2], K. Pelphrey[3], M. D. Bell[2,4] and M. Assaf[1,2], (1)Olin Neuropsychiatry Research Center, Institute of Living, Hartford Hospital, Hartford, CT, (2)Department of Psychiatry, Yale School of Medicine, New Haven, CT, (3)Child Study Center, Yale University, New Haven, CT, (4)VA Connecticut Healthcare System, West Haven, CT

135 159.135 Clinical Utility of the Relationship Development Assessment - Research Version (RDA-RV) for Children with Autism in a Preschool Setting J. A. Hobson[1], M. Garlington[2], L. Hollaway[3] and J. A. Moore[4], (1)Institute of Child Health, UCL, London, United Kingdom, (2)Pediatrics Plus, Conway, AR, (3)Pediatrics Plus, Little Rock, AR, (4)Occupational Therapy, University of Central Arkansas, Conway, AR

136 159.136 Concurrent Validity Evidence Supporting the Theory of Mind Inventory K. J. Greenslade and T. E. Coggins, Department of Speech and Hearing Sciences, University of Washington, Seattle, WA

137 159.137 Context Effects on Facial Affect Recognition in Autism and Schizophrenia K. E. Morrison[1], J. R. Shasteen[1], D. J. Faso[2], A. E. Pinkham[1] and N. J. Sasson[2], (1)The University of Texas at Dallas, Richardson, TX, (2)University of Texas at Dallas, Richardson, TX

138 159.138 Correlates of Emotion Recognition Task Performance in Autism: A Meta-Analysis D. A. Trevisan and E. Birmingham, Faculty of Education, Simon Fraser University, Burnaby, BC, Canada

139 159.139 Depression As a Predictive Factor of Emotion Recognition in High-Functioning Autism M. A. Lecheler[1], G. Allen[2] and A. R. Neal-Beevers[3], (1)Psychology, University of Texas at Austin, Austin, TX, (2)Department of Educational Psychology, University of Texas at Austin, Austin, TX, (3)Department of Psychology, University of Texas at Austin, Austin, TX

140 159.140 Developmental Trajectories in Attention to Socially Relevant Information Differs for Infants at Risk for ASD T. Tsang[1], T. Hutman[2], C. Ponting[2], S. S. Jeste[3], M. Dapretto[4] and S. Johnson[5], (1)University of California, Los Angeles, Los Angeles, CA, (2)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA, (5)University of California Los Angeles, Los Angeles, CA

141 159.141 Differences in Processing Emotional Facial Stimuli in Young Adults with High Versus Low Autism Quotient Scores T. Kozikowski[1], J. Burk[1], C. L. Dickter[2] and J. Zeman[3], (1)College of William and Mary, Williamsburg, VA, (2)College of Wiliam and Mary, Williamsburg, VA, (3)College of WIlliam and Mary, Williamsburg, VA

142 159.142 Differences in Social Conversation Structure and Behaviors for Adolescents with ASD As Compared to Typically Developing Peers K. C. Durica, A. M. Pearl, A. N. Heintzelman, S. M. Minnick and M. Murray, Department of Psychiatry, Penn State Hershey, Hershey, PA

143 159.143 Differential Physiological Responses to Appropriate Vs Non-Appropriate Social Stimuli in Neurotypical Adults with Different Level of Autistic and Empathy Traits A. Truzzi[1] and G. Esposito[1,2], (1)Department of Psychology and Cognitive Science, University of Trento, Rovereto, Italy, (2)Nanyang Technological University, Singapore, Singapore

144 159.144 Differing Patterns of Emotional Intelligence in Teens with and without Autism Spectrum Disorders R. Boily[1], J. M. Montgomery[1] and B. M. Stoesz[2], (1)Psychology, University of Manitoba, Winnipeg, MB, Canada, (2)University of Manitoba, Winnipeg, MB, Canada

145 159.145 Dissociable Components of Imitation Underlie Learning Abilities in Autism Versus William Syndrome and Mediate Treatment Outcomes D. R. Hocking[1] and G. Vivanti[2], (1)La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, Northcote, Australia

146 159.146 Diverse Population of Young Children with Autism: Play and Language Y. C. Chang[1,2], S. Y. Shire[3], W. Shih[4], H. Gould[2] and C. Kasari[5], (1)Charter College of Education, California State University, Los Angeles, Los Angeles, CA, (2)Semel Institute of Neuroscience and Human Behavior, UCLA, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)Department of Biostatistics, University of California, Los Angeles, Los Angeles, CA, (5)UCLA Center for Autism Research & Treatment, Westwood, CA

147 159.147 Do Abnormal Eye Movements Account for Impaired Social Cognition in Adults with ASD? J. C. Bush, P. C. Pantelis, X. Morin Duchesne, S. A. Kagemann and D. Kennedy, Psychological and Brain Sciences, Indiana University, Bloomington, IN

148 159.148 Dyspraxia and Autistic Traits in Adults with and without Autism Spectrum Conditions S. Cassidy[1,2], P. Hannant[1], T. Tavassoli[3], C. Allison[2], P. L. Smith[2] and S. Baron-Cohen[4,5], (1)Centre for Research in Psychology, Behavior and Achievement, Coventry University, Coventry, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Seaver Autism Center, New York, NY, (4)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (5)CLASS Clinic, Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom

149 159.149 Emotion Recognition Trajectories in Autism Spectrum Disorders: Effects of Internalizing and Externalizing Comorbidities T. E. Rosen[1], R. J. Weber[1], J. A. Rankin[1], E. Kang[1], K. Levine[2] and M. D. Lerner[1], (1)Psychology, Stony Brook University, Stony Brook, NY, (2)Helping Children With Challenges (HCC), Lexington, MA

150 159.150 Emotion Recognition and Mentalising Impairments in Adolescents with ASD and Co-Occurring Alxithymia B. Milosavljevic[1], F. Happe[2], C. Jones[3], E. Simonoff[4], G. Baird[5] and T. Charman[6], (1)Department of Psychology, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)School of Psychology, Cardiff University, Cardiff, United Kingdom, (4)Department of Child and Adolescent Psychiatry, King's College London, London, United Kingdom, (5)Guy's Hospital, London, United Kingdom, (6)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

151 ▸ 159.151 Emotion Recognition in Children with and without Autism Spectrum Conditions: Cross Cultural Findings S. Fridenson-Hayo[1], S. Berggren[2], S. Tal[1], A. Lassalle[3], D. Pigat[3], S. Bolte[2,4], S. Baron-Cohen[3,5] and O. Golan[1], (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Center of neurodevelopmental disorders, Karolinska Institutet, Stockholm, Sweden, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)Division of Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden, (5)CLASS Clinic, Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom

152 159.152 Emotional Understanding and Perception in Cognitively Able 6-8 Years Old Children with and without Autism Spectrum Disorder E. Ben Itzchak[1], C. Amsalem[2], O. Barel-Eini[2] and D. A. Zachor[3], (1)Ariel University/ Assaf Harofeh Medical Center, Givat Shmuel, Israel, (2)Ariel University, Ariel, Israel, (3)Pediatrics, Assaf Harofeh Medical Center, Tel Aviv University, Zerifin, Israel

153 159.153 Ensemble Perception of Emotions in Children with Autism T. Karaminis[1], L. E. Neil[2], C. Manning[2,3], M. Turi[4], C. Fiorentini[5], D. Burr[4] and E. Pellicano[2], (1)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), Institute of Education, London, United Kingdom, (3)Department of Experimental Psychology, University of Oxford, Oxford, United Kingdom, (4)University of Florence, Florence, Italy, (5)Faculty of Psychology and Educational Sciences, University of Geneva, Geneva, Switzerland

154 159.154 Evidence for Specificity of Visuomotor Sequencing Deficits and Relation to Cognitive Outcomes in Autism and Williams Syndrome D. R. Hocking[1] and G. Vivanti[2], (1)Bundoora, La Trobe University, Melbourne, VIC, Australia, (2)Olga Tennison Autism Research Centre, Northcote, Australia

155 159.155 Examination of an Imitation-Based Intervention for Adolescents with ASD and Significant ID B. Ingersoll, Psychology, Michigan State University, East Lansing, MI

156 159.156 Examining and Comparing Social Perception Abilities in Children and Youth with Autism Spectrum Disorder, Attention Deficit Hyperactivity Disorder and Obsessive Compulsive Disorder D. A. Baribeau[1], K. A. R. Doyle-Thomas[2], A. Dupuis[3], A. Iaboni[4], H. C. McGinn[5], J. Crosbie[5], P. D. Arnold[6], J. A. Brian[7], A. Kushki[4], R. Nicolson[8], R. Schachar[5], N. Soreni[9], P. Szatmari[10] and E. Anagnostou[2], (1)Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (2)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Clinical Research Services, The Hospital for Sick Children, Toronto, ON, Canada, (4)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (5)Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada, (6)Psychiatry, Hospital for Sick Children, Toronto, ON, Canada, (7)Bloorview Research Institute/ Paediatrics, Holland Bloorview Kids Rehab/ University of Toronto, Toronto, ON, Canada, (8)Psychiatry, Western University, London, ON, Canada, (9)McMaster University, Hamilton, ON, Canada, (10)University of Toronto, Toronto, ON, Canada

157 159.157 Examining the Relationship Between Oxytocin and Cortisol in a Double-Blind, Placebo-Controlled, Randomly Assigned Hydrosome Challenge Study in Autism Spectrum Disorder B. A. Corbett[1], K. L. Bales[2], K. B. Sanders[3], D. Swain[4] and L. Muglia[5], (1)Vanderbilt University, Nashville, TN, (2)Psychology Department, University of California, Davis, Davis, CA, (3)Psychiatry, Vanderbilt University, Nashville, TN, (4)Virginia Polytechnic Institution and State University, Blacksburg, VA, (5)University of Cincinnati, Cincinnati, OH

158 159.158 Examining the Relationship Between Social Communication on the ADOS and Real-World Reciprocal Social Communication in Children with ASD L. R. Qualls[1] and B. A. Corbett[2], (1)Psychiatry, Vanderbilt University, Nashville, TN, (2)Vanderbilt University, Nashville, TN

159 159.159 Exergaming to Improve Physical and Mental Fitness in Children with Autism Spectrum Disorders C. L. Hilton[1], D. M. Collins[2] and T. A. Reistetter[2], (1)University of Texas Medical Branch, Galveston, TX, (2)Occupational Therapy, University of Texas Medical Branch, Galveston, TX

160 159.160 Eye-Tracking Differences in Social Stimuli in Patients with Rett Syndrome and Autism Spectrum Disorders J. S. Schwartzman[1], R. D. Velloso[1], M. E. F. D`Antino[2], C. P. Duarte[1], T. F. Cicuti[3], J. G. Negrao[3] and S. Santos[4], (1)Presbyteryan Mackenzie University, Sao Paulo, Brazil, (2)Presbyteryan Mackenzie University, São Paulo, Brazil, (3)Presbyteryan Mackenzie University, sao paulo, Brazil, (4)Brazilian Rett Syndrome Association, Sao Paulo, Brazil

161 159.161 Face Recognition Accuracy, Response Time and Visual Search Strategies of Adolescents with and without Autism Spectrum Disorders T. Falkmer, Curtin University, Perth, WA, Australia

162 159.162 Facial Emotion Recognition from Videos with Varying Intensity in Autism T. S. Wingenbach[1], C. Ashwin[2] and M. Brosnan[3], (1)Department of Psychology, University of Bath, Bath, United Kingdom, (2)Dept. of Psychology, University of Bath, Bath, United Kingdom, (3) University of Bath, Bath, United Kingdom

163 159.163 Firm Evidence for Facial Identity Recognition Deficits in ASD Using a Task with No Memory Component L. Latterner[1], J. Pandey[1], J. Wolf[2], C. Klaiman[3], J. D. Herrington[1,4] and R. T. Schultz[1,5], (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Child Study Center, Yale University, New Haven, CT, (3)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (4)Child Psychiatry and Behavioral Science, University of Pennsylvania, Philadelphia, PA, (5)Departments of Pediatrics and Psychiatry, University of Pennsylvania, Philadelphia, PA

164 159.164 Friends for Foes: How Friendship May Buffer the Effects of Victimization on Depression in Adolescents with High Functioning Autism M. Jankowski[1], L. Sperle[2], B. G. Davidson[3] and A. R. Neal-Beevers[4], (1)Psychology, University of Texas at Austin, Austin, TX, (2)University of Pittsburgh, Pittsburgh, PA, (3)Dept of Psychology, University of Texas at Austin, Austin, TX, (4)Department of Psychology, University of Texas at Austin, Austin, TX

165 159.165 Imitation Abilities in 12-Month-Old Infants at High Risk for Autism Spectrum Disorder (ASD): Parents Provide a Vital Perspective S. Macari[1], J. Rowberry[2], D. J. Campbell[3], G. Chen[4], J. Koller[5] and K. Chawarska[1], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Mike O'Callaghan Federal Medical Center, Nellis Air Force Base, NV, (3)Amgen, Inc., Thousand Oaks, CA, (4)Stanford University, Stanford, CA, (5)The School of Education, The Hebrew University of Jerusalem, Jerusalem, Israel

166 159.166 Impact of Perceived Gaze Direction and Duration on Fixations during an Impression Formation Task in High-Functioning Autism A. L. Georgescu[1], R. Kulbida[1], B. Kuzmanovic[2], R. Tepest[3], G. Bente[4] and K. Vogeley[5], (1)University Hospital of Cologne, Cologne, Germany, (2)Institute of Neuroscience and Medicine - Ethics in the Neurosciences, Research Center Juelich, Juelich, Germany, (3)Department of Psychiatry, University Hospital of Cologne, Cologne, Germany, (4)Department of Psychology, University of Cologne, Cologne, Germany, (5)Institute of Neuroscience and Medicine (INM-3), Research Center Jülich, Jülich, Germany

167 159.167 Implicit Social Evaluations in Toddlers with Autism Spectrum Disorder A. R. Gonsiorowski[1], R. A. Williamson[1] and D. L. Robins[2], (1)Georgia State University, Atlanta, GA, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

168 159.168 Insight in Social Relationships in Cognitively-Able 6-8 Years Old Children with and without Autism Spectrum Disorder E. Ben Itzchak[1], O. Barel-Eini[2], C. Amsalem[2] and D. A. Zachor[3], (1)Ariel University/ Assaf Harofeh Medical Center, Givat Shmuel, Israel, (2)Ariel University, Ariel, Israel, (3)Assaf Harofeh Medical Center, Tel Aviv University, Zerifin, Israel

169 159.169 Interoceptive Awareness, Alexithymia and Empathy in Autism C. L. Mul, S. D. Stagg and J. E. Aspell, Psychology, Anglia Ruskin University, Cambridge, United Kingdom

170 159.170 Interpersonal Sensory-Motor Synchrony in Adults with and without ASD during an Open-Ended, Joint Motion Game: A Pilot Study R. S. Brezis[1], L. Noy[2], N. Levit-Binnun[3] and Y. Golland[4], (1)Interdisciplinary Center, Herzliya, Jerusalem, Israel, (2)Weizmann Institute of Science, Rehovot, Israel, (3)School of Psychology, Interdisciplinary Center, Herzliya, Herzliya, Israel, (4)Sagol Center for Applied Neuroscience, School of Psychology, Interdisciplinary Center, Herzliya, Herzliya, Israel

171 159.171 Intimate Relationships and the Broad Autism Phenotype in Young Adults S. Robinson, M. A. Viecili and J. A. Weiss, Psychology, York University, Toronto, ON, Canada

172 159.172 Linking the Emotional Self-Control of Children with ASD to ADHD Symptomology: A Moderated Mediation Analysis T. Ward, H. N. Davis, H. Dauterman, A. Lee, R. Kramer, W. Mason and B. J. Wilson, Clinical Psychology, Seattle Pacific University, Seattle, WA

173 159.173 Longitudinal Stability of Social Interaction Styles in Children and Adolescents with Autism S. Begeer[1], A. M. Scheeren[2], C. Zieremans[3] and H. M. Koot[3], (1)Van der Boechorststraat 1, VU University Amsterdam, Amsterdam, Netherlands, (2)Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands, (3)Developmental Psychology, VU University Amsterdam, Amsterdam, Netherlands

174 159.174 Miss Alida M Acosta Ortiz A. M. Acosta Ortiz[1], S. B. Gaigg[2] and S. Reimers[3], (1)Psychology, Autism Research Group, City University London, London, United Kingdom, (2)Psychology, City University of London, London, United Kingdom, (3)Psychology, City University London, London, United Kingdom

175 159.175 Moral Judgment in Adolescents with Autism Spectrum Disorders M. J. Liu[1] and L. Y. Ma[2], (1)National Kaohsiung Normal University, Kaohsiung City, Taiwan, (2)National Kaohsiung Normal University, Kaohsiung, Taiwan

176 159.176 No Evidence of Emotion Dysregulation or Aversion to Mutual Gaze in Pre-Schoolers with Autism – an Eye-Tracking Pupillometry Study H. J. Nuske, G. Vivanti and C. Dissanayake, Olga Tennison Autism Research Centre, Melbourne, Australia

177 159.177 Perceptions of Playground Engagement with Peers: How Do Child Reports Compare to Recess Observations for Children with ASD? A. Schlink, M. Wirga, A. Dominguez, M. Kretzmann and C. Kasari, UCLA Center for Autism Research & Treatment, Westwood, CA

178 159.178 Playing with Peers at Recess: Are Children with Autism Playing Their Favorite Games? C. McCracken, M. Kretzmann, C. Kasari and M. Mattos, UCLA Center for Autism Research & Treatment, Westwood, CA

179 159.179 Positive Bias for Eye Contact in Adolescents with Autism Spectrum Disorders during Conversation with an Android Robot Y. Yoshikawa[1], H. Kumazaki[2,3], Y. Matsumoto[4], Y. Wakita[4], S. Mizushima[5], S. Nemoto[6], M. Miyao[7], M. Nakano[7], M. Mimura[2] and H. Ishiguro[1], (1)Graduate School of Engineering Science, Osaka University, Toyonaka, Japan, (2)Department of Neuropsychiatry, School of Medicine, Keio University, Tokyo, Japan, (3)Research Center for Child Mental Development, University of Fukui, Yoshida-gun, Fukui Prefecture, Japan, (4)The National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, (5)Research Center for Child Mental Development of University of Fukui, University of Osaka, Yoshida-gun, Fukui Prefecture, Japan, (6)Donguri clinic for developmental disorders, Tokyo, Japan, (7)National Center for Child Health and Development, Tokyo, Japan

180 159.180 Respiratory Sinus Arrhythmia: A Moderator of Emotion Regulation and Social Motivation Deficits in ASD E. E. Condy[1], M. Patriquin[2], A. Scarpa[3] and B. H. Friedman[1], (1)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Baylor College of Medicine, Houston, TX, (3)Virginia Polytechnic Institution and State University, Blacksburg, VA

181 159.181 Revealing Sub-Categorization Strategies Used By Children with Autism Spectrum Disorders to Decode Facial Expressions of Emotion K. Ainsworth[1], D. R. Simmons[1], O. Garrod[1], I. Delis[1], B. Heptonstall[2], P. Schyns[1] and J. Tanaka[3], (1)The University of Glasgow, Glasgow, United Kingdom, (2)University of Victoria, Victoria, BC, Canada, (3)Psychology, University of Victoria, Victoria, BC, Canada

182 159.182 Social Anosimia: Altered Social Chemosignaling in Individuals with Autism Spectrum Disorder Y. Shapira, A. Eisen and N. Sobel, Department of Neurobiology, Weizmann Institute of Science, Rehovot, Israel

183 159.183 Social Attention As a Baseline Measure of Social Motivation in Toddlers with Autism Spectrum Disorder J. Bradshaw[1], T. W. Vernon[2], A. D. Navab[2], E. J. Horowitz[3] and T. C. German[3], (1)Clinical, Counseling, and School Psychology, University of California Santa Barbara, Santa Barbara, CA, (2)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA, (3)Psychological and Brain Sciences, University of California, Santa Barbara, Santa Barbara, CA

184 159.184 Social Skills, IQ, and Depression Among Boys Aged 8-12 with ASD J. Mendelson[1], P. A. Thomas[2], A. Benson-Greer[2] and R. Nelson-Gray[3], (1)University of North Carolina - Greensboro, Greensboro, NC, (2)Psychology, UNCG, Greensboro, NC, (3)Psychology, UNC-Greensboro, Greensboro, NC

185 159.185 Spontaneous Goal Attribution in Children with ASD: A Comparative Eye-Tracking Study E. J. Horowitz[1], J. Bradshaw[2], A. D. Navab[3], T. C. German[1] and T. W. Vernon[3], (1)Psychological and Brain Sciences, University of California, Santa Barbara, Santa Barbara, CA, (2)University of California Santa Barbara, Santa Barbara, CA, (3)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

186 159.186 Strong Emotions Cause Social Problems; Or Is This the Other Way Around in Children and Adolescents with ASD? C. Rieffe[1,2], J. A. de Ruiter[1], C. E. Stevenson[3], L. Stockmann[4] and M. G. Bos[1], (1)Developmental Psychology, Leiden University, Leiden, Netherlands, (2)Foundation for the deaf and hard of hearing child, Amsterdam, Netherlands, (3)Methodology and Statistics, Leiden University, Leiden, Netherlands, (4)Centrum Autisme Rivierduinen, Leiden, Netherlands

187 159.187 Taking a Dimensional Measurement Approach to Test the Imitation Impairment Hypothesis in Autism J. H. G. Williams, Clinical Research Centre, University of Aberdeen, Aberdeen, United Kingdom

188 159.188 Temperament Similarities and Differences: A Comparison of Factor Structures from the Behavioral Style Questionnaire in Children with ASD, DD and Typical Development E. Moody[1], S. Rosenberg[2] and L. D'Abreu[3], (1)13121 E 17th Avenue, JFK Partners/University of Colorado School of Medicine, Aurora, CO, (2)Psychiatry, University of Colorado School of Medicine, Aurora, CO, (3)Psychology, University of Denver, Denver, CO

189 159.189 The Broad Autism Phenotype Predicts Relationship Outcomes in Previously Unfamiliar College Roommates D. J. Faso, N. J. Sasson, C. A. Corretti and R. Ackerman, School of Behavioral and Brain Sciences, University of Texas at Dallas, Richardson, TX

190 159.190 The Effects of Violent Video Games on Adults with and without Autism Spectrum Disorder C. R. Engelhardt[1], M. O. Mazurek[1], J. Hilgard[1], B. Bartholow[1] and J. Rouder[2], (1)University of Missouri, Columbia, MO, (2)Psychological Science, University of Missouri, Columbia, MO

191 159.191 The Mediating Role of Empathy on Broader Autism Traits and Prosocial Behavior D. Swain[1], H. Gordon[1], A. Scarpa[1] and L. Cooper[2], (1)Virginia Polytechnic Institution and State University, Blacksburg, VA, (2)Psychology, Virginia Polytechnic Institute & State University, Blacksburg, VA

192 159.192 The Relation Between Theory of Mind and Self-Perceptions in Adolescents with Autism Spectrum Disorders R. Furlano, E. A. Kelley, L. Hall and D. E. Wilson, Queen's University, Kingston, ON, Canada

193 159.193 The Relationship Between Adaptive Functioning and Social Responsiveness in Children with Autism Spectrum Disorder (ASD) and Caregiver Quality of Life (QoL) K. Davis, L. Dewey and K. Read, Nemours/Alfred I duPont Hospital for Children, Wilmington, DE

194 159.194 The Relationship Between Discourse Processing and Autistic Symptomatology in Adolescents with ASD K. E. Bodner, J. Stichter, K. Bellesheim, J. Sokoloff, M. Herzog and S. E. Christ, University of Missouri, Columbia, MO

195 159.195 The Role of Language in Second-Order Theory of Mind Reasoning in Children with Autism Spectrum Disorder and Children with Optimal Outcomes I. Chin[1], E. Troyb[2], E. A. Kelley[3], I. M. Eigsti[1], D. A. Fein[1] and L. Naigles[1], (1)Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT, (3)Queen's University, Kingston, ON, Canada

196 159.196 The Strange Stories Film Task: A New Measure of Social Cognition K. Murray[1], K. Johnston[1] and F. Happe[2], (1)King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

197 159.197 An Intense World? Heightened Affective Empathy for Pain in ASD M. Robberts-Hoogenhout and S. Malcolm-Smith, Department of Psychology, University of Cape Town, Cape Town, South Africa

198 159.198 Trait Anxiety in ASD: Implications for Empathic Understanding E. Trimmer, S. McDonald and J. A. Rushby, Psychology, University of NSW, Sydney, Australia

199 159.199 Understanding the Relationship Between Social Anxiety and Bullying Against Others in Adolescents with Autism Spectrum Disorder E. N. Santos, J. Hopkins and E. A. Laugeson, Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

200 159.200 University Students' Explicit Stereotypes of Peers on the Autism Spectrum J. Zeman[1], C. L. Dickter[2], S. Borowski[3], J. Johnson[4], A. Gadre[1] and J. Burk[5], (1)College of WIlliam and Mary, Williamsburg, VA, (2)Psychology, College of Wiliam and Mary, Williamsburg, VA, (3)University of Missouri, Columbia, MO, (4)College of Williamm and Mary, Williamsburg, VA, (5)Psychology, College of William and Mary, Williamsburg, VA

201 159.201 Using Interactive Eye-Tracking and fMRI to Investigate Joint Attention in Children and Adolescents with and without Autism Spectrum Disorder E. Oberwelland[1,2,3], L. Schilbach[4], I. Barisic[4,5], S. C. Krall[1,2], K. Vogeley[2,4], G. R. Fink[2,6], B. Herpertz-Dahlmann[1], K. Konrad[1,2,3] and M. Schulte-Rüther[1,2,3], (1)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (2)Institute of Neuroscience and Medicine (INM-3), Research Center Jülich, Jülich, Germany, (3)Translational Brain Medicine, Jülich Aachen Research Alliance - JARA Brain, Aachen, Germany, (4)Department of Psychiatry and Psychotherapy, University Hospital Cologne, Cologne, Germany, (5)Department of Humanities, Social and Political Science, ETH Zurich, Zurich, Switzerland, (6)Department of Neurology, University Hospital Cologne, Cologne, Germany

202 159.202 Visual Orientation during Game Play: Using Eye-Tracking and Conversation Analysis to Examine the Interactional Use of Eye-Gaze in Children with Autism Spectrum Disorders K. Tuononen[1], T. Korkiakangas[2], A. Laitila[1] and E. Kärnä[1], (1)School of Educational Sciences and Psychology, University of Eastern Finland, Joensuu, Finland, (2)Department of Culture, Communication and Media, Institute of Education (University of London), London, United Kingdom

203 159.203 Who Believes in (Bayesian) Ghosts? a Study of Interpersonal Predictive Coding in High-Functioning Autism T. von der Luehe[1], V. Manera[2], I. Barisic[3], C. Becchio[4], K. Vogeley[5] and L. Schilbach[5], (1)Department of Psychiatry, University Hospital Cologne, Cologne, Germany, (2)EA CoBTeK Cognition Behaviour Technology, University of Nice Sophia Antipolis,, Nice, France, (3)Cognitive Science Department, ETH Zürich, Zürich, Switzerland, (4)Department of Psychology, University of Turin, Torino, Italy, (5)Department of Psychiatry and Psychotherapy, University Hospital Cologne, Cologne, Germany

204 159.204 Young Autistic Children in a Stimulating Play Situation: Nature and Frequency of Emotions C. Jacques[1,2], V. Courchesne[2], S. Mineau[2], S. Lajeunesse[2], S. Ferguson[2], C. Cimon-Paquet[2], V. Bilodeau[2], M. Dawson[2] and L. Mottron[3], (1)Universite du Quebec en Outaouais, Gatineau, QC, Canada, (2)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montréal, QC, Canada, (3)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada

Special Interest Groups (SIGs)

Saturday, May 16, 2015: 07:15 AM - 08:45 AM
Location listed under each session

160 - ASD and Sex Offenses: Guidance for the Criminal Justice System

Room: Envoy

Session Chair: Dr. Laurie Sperry
Co-Chairs: Dr. Rachel Loftin, Dr. Philip O'Donnell, Dr. Alexander Westphal, Hannah Heyward, Ph.D. candidate

Oftentimes education related to sexual/romantic functioning does not occur until after an individual with ASD been victimized or has committed a social error that meets the criteria for a sex offense (Griffiths, 1999). These behaviors may include undesired touching, public masturbation and other illegal activity (Hellemans, et al., 2007). Even when problem behaviors are not illegal or harmful to others, inappropriate sexual behaviors can limit employment and inclusion opportunities for individuals with ASD (Sullivan & Caterino, 2008).

One of the biggest challenges in developing appropriate sexuality education for people with ASD has been bridging the gap between people who know about sexuality education and people who know about ASD (Mesibov, 2012). The goal of this interactive panel discussion is to summarize what is known from published investigations and case studies of people with ASD through an examination of information about the criminal justice system, the characteristics and life circumstances of people with ASD that are implicated. This presentation will provide case examples and cover the findings from an investigation of a sexuality education curriculum developed by ASD specialists and Planned Parenthood. Preliminary data will be presented regarding the psychiatric and behavioral profiles of adolescents with histories of interpersonal violence, including sexual offending, who have been admitted to an inpatient psychiatric unit. Practical applications for community and educational settings will be discussed.

161 - Implementing and Evaluating Community-Based Early Intervention

Room: Savoy

Session Chairs: Dr. Kristelle Hudry and Dr. Giacomo Vivanti

The standard of autism early-intervention research has increased substantially, allowing us to judge the efficacy of particular therapy models under optimal delivery conditions. If the field is to have a real impact on the lives of children with autism and their families, however, we need to progress our evaluation of the effectiveness of early intervention, conducting rigorous studies within community-based settings. Such a move brings significant methodological challenge, and researchers in different parts of the world will benefit from the opportunity to have for dedicated discussion on the topic at this new SIG. We will consider existing progress made in conducting community-based studies of ASD early-intervention, with a focus on methodological difficulties and successes encountered, and aiming to plan a strategic way forward for the field.

162 - Technology and Autism: Developing a Framework for Best Practice in Design, Development, Evaluation and Dissemination of Autism-Specific Technologies

Room: Murano

Session Chais: Sue Fletcher-WatsonCommittee: Alyssa Alcorn, Renae Beaumont, Ouriel Grynszpan, Mari MacFarland, Helen Pain, Katharina Spiel

The theme of the 2015 SIG will be dissemination. The main part of the meeting will be a chaired expert panel discussion. The multi-disciplinary panel will be asked to respond to questions submitted in advance by members of the ASDtech mailing list, permitting a focused discussion, followed by open comments from the floor. Topics may include:

- Open sourcing: both data and programs, including online versions of autism clinical and research tools
- Technological solutions for the developing world – cultural differences in design and application
- Procedural integrity in technology research and practice
- Learning analytics and implementation science: what lessons are relevant for autism research?
- Expectations of technology: it could be free so it should be free? Time and resources required to make technology accessible and to support users
- Challenges of, and guidelines for, bringing technologies to the market
- Supporting evidence-based ASD interventions to keep pace with latest innovations

As this will be the closing meeting of the SIG we will also invite specific suggestions from members about how to build on the work of the SIG, drawing on existing tools such as the mailing list and international expertise map and identifying further opportunities for meetings.

163 - Approaching Adulthood: Transitional and Vocational Issues in ASD

Room: Grand Salon

Session Chairs: Dr. David Nicholas, University of Calgary, Canada; Dr. Lonnie Zwaigenbaum, University of Alberta, Canada

Aims (1) To continue to facilitate networking for substantive priority planning and research development (2) To work toward specific research plans and galvanization of international networks for addressing gaps and opportunities for transitional and vocational research in ASD.

Welcome Address and Sponsor Update

8:45 AM - Welcome from IMFAR Organizers
8:50 AM - Autism Speaks Update, Robert H. Ring, Ph.D.
Grand Ballroom

Keynote Address
164 - Pathways to New Treatments for Autism Spectrum Disorder
9:00 AM - 10:00 AM - Grand Ballroom

Speaker: Jeremy Veenstra-Vander Weele, Columbia University / *New York State Psychiatric Institute, Psychiatry, New York, NY*

Two main approaches are being pursued to identify new medication treatments that may benefit children with Autism Spectrum Disorder. The first and most common approach is to evaluate a treatment in the total group of people affected by ASD, usually with a small number excluded due to the presence of a known genetic syndrome. This strategy is challenged by the lack of support for common genetic or environmental risk factors that contribute substantially to risk in the entire group of children with ASD. Therefore, treatment studies in the overall group of children with ASD are largely tied to brain systems and pathways that may modulate social function or repetitive behavior but that are not necessarily implicated in autism risk. The second approach is almost the exact opposite, to study a medication for ASD-related symptoms in a defined genetic syndrome that confers substantial risk of ASD but comprises <2% of individuals with ASD. Since animal models are providing an understanding of the underlying neurobiology that leads to autism-related symptoms in these populations, treatments targeted the root cause of these syndromes is possible. Transformative treatments, though possibly not "cures," seem most likely to emerge from the second approach, but in a small group of children. In contrast, if the first approach is successful, we can expect a treatment that benefits a larger group of children, but likely benefits them less. With emerging knowledge of brain systems and intersections with genetic data, we can hope for a third approach that is somewhere in the middle, with a treatment being studied in a larger subgroup of individuals with ASD that share a common biomarker. This could result from extension outward from treatments studies in rare genetic syndromes, or it could result from identification of subgroups that benefit from treatments studied in ASD as a whole. I will discuss current challenges and opportunities as we seek new treatments in autism, including specific examples of each approach.

Keynote Panel Session
165 - On the Road to Translational Treatments in Autism-Related Genetic Syndromes
10:30 AM - 12:30 PM - Grand Ballroom B

Session Chair & Discussant: Jeremy Veenstra-Vander Weele */ New York State Psychiatric Institute, Psychiatry, New York, NY*

Our understanding of autism risk factors has grown exponentially in the past few years. Cellular and animal models based upon some of these risk factors are providing clues to the underlying neurobiology. The most advanced work has emerged in rare genetic syndromes that often include autism symptoms: tuberous sclerosis, fragile X, Rett, and Phelan-McDermid syndromes. In each syndrome, hypothesized neurobiological mechanisms are now being tested in human treatment studies. This panel will outline insights from specific studies in these rare syndromes, but it will also provide a perspective on the pathway from risk factor to mechanism to potential treatment. Presentations in this panel will highlight (1) candid evaluations of model systems for dissecting the biology of neurodevelopmental disorders and testing potential treatments; and (2) perspectives on assessing potential benefits and risks in the context of developmental change and the placebo effect. These rare syndromes offer the first opportunity to test treatments based upon an understanding of neurobiological mechanisms. By finding treatments that show benefit in these rare syndromes, we may also gain an understanding of how to develop and test treatments in neurodevelopmental disorders more broadly. Potentially, some treatments may even benefit a larger subgroup of children with ASD.

10:30 165.001 Progress and Hurdles in Development of Targeted Treatments for Fragile X Syndrome **E. Berry-Kravis**, Pediatrics, Neurological Sciences, Biochemistry, Rush University Medical Center, Chicago, IL

10:55 165.002 Translational Studies in Tuberous Sclerosis **M. Sahin**, Neurology, Boston Children's Hospital, Boston, MA

11:20 165.003 Initial Trials of Translational Medicine in Rett Syndrome **W. E. Kaufmann**, Neurology, Boston Children's Hospital, Boston, MA

11:45 165.004 Novel Findings in Phelan-Mcdermid Syndrome and Their Translation into Therapeutics **J. D. Buxbaum**, Seaver Autism Center for Research and Treatment, Department of Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY

12:10 Discussant

Panel Session
166 - Translational Developmental Research in Restricted and Repetitive Behaviors: From Basic Mechanisms to Intervention
10:30 AM - 12:30 PM - Grand Ballroom A

Session Chair: C. Harrop, *University of California, Los Angeles, Los Angeles, CA*

Discussant: J. W. Bodfish, *Vanderbilt Brain Institute, Nashville, TN*

Restricted and Repetitive Behaviors (RRBs) are a core symptom of autism spectrum disorders (ASD) (ICD-10, World Health Organization 1992; DSM-5, American Psychiatric Association, 2013). While research into this symptom domain has grown in recent years, considerably less is known about the function and etiology of RRBs relative to the social-communication impairments of ASD. This hinders researchers ability to develop effective, targeted interventions for this core deficit. This panel will address these issues and present a series of innovative studies with the overarching goal of providing a comprehensive and translational update on the current state of the field. The panel brings together talks spanning neuroscience, early detection and intervention and the use of novel technologies to study RRBs. Our four panelists will discuss a) the trajectories of RRBs and their neural correlates in early development, b) explore novel methodologies for quantifying the presence of RRBs as well as their response to intervention, and c) the effect of targeted interventions on behavioral changes in RRBs.

10:30 166.001 Exploring the Neural Correlates of Repetitive Behavior in Babies with Autism **J. J. Wolff**[1], J. T. Elison[2], M. R. Swanson[3], G. Gerig[4], M. A. Styner[5], K. N. Botteron[6], S. Dager[7], A. M. Estes[8], H. C. Hazlett[9], R. T. Schultz[10], L. Zwaigenbaum[11], J. Piven[5] and The IBIS Network[12], (1)Department of Educational Psychology, University of Minnesota, Minneapolis, MN, (2)Institute of Child Development, University of Minnesota, Minneapolis, MN, (3)University of North Carolina - Chapel Hill, Carrboro, NC, (4)School of Computing & Scientific Computing and Imaging Institute SCI, University of Utah, Salt Lake City, UT, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)Washington University School of Medicine in St. Louis, St. Louis, MO, (7)University of Washington, Seattle, WA, (8)Speech and Hearing Sciences, University of Washington, Seattle, WA, (9)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (10)Departments of Pediatrics and Psychiatry, University of Pennsylvania, Philadelphia, PA, (11)University of Alberta, Edmonton, AB, Canada, (12)Autism Center of Excellence, Chapel Hill, NC

10:55 166.002 Eye-Tracking Restricted Behaviors and Interests in Autism N. J. Sasson[1], K. Unruh[2] and J. W. Bodfish[3], (1)School of Behavioral and Brain Sciences, University of Texas at Dallas, Richardson, TX, (2)Vanderbilt Brain Institue, Nashville, TN, (3)Vanderbilt Brain Institute, Nashville, TN

11:20 166.003 Automated Detection of Stereotypical Motor Movements in Individuals with Autism Spectrum Disorder Using Wireless 3-Axis Accelerometers and Computerized Pattern Recognition Algorithms M. S. Goodwin, Northeastern University, Boston, MA

11:45 166.004 Restricted and Repetitive Behaviors in Toddlers with ASD: The Impact of Caregiver-Mediated Jasper on Child Behaviors and Caregiver Strategies C. Harrop[1], A. Gulsrud[2], W. Shih[3], L. Hovsepyan[3] and C. Kasari[4], (1)University of California, Los Angeles, Los Angeles, CA, (2)Semel Institute, UCLA, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)UCLA Center for Autism Research & Treatment, Westwood, CA

12:10 Discussant

Panel Session
167 - The Value of Registries and Biobanking to the ASD Community within the Social and Cultural Landscape
10:30 AM - 12:30 PM - Grand Ballroom C

Session Chair: L. Gallagher, *Department of Psychiatry, Trinity College Dublin, Dublin, Ireland*

Discussant: A. Reichenberg, *Psychiatry and Preventive Medicine, Mount Sinai School of Medicine, New York, NY*

ASD registries and biobanks provide critical support for research and clinical service development. Different models exist reflecting varied social and cultural contexts. For example national registries, e.g. in Scandinavian countries, integrate publicly available health data while elsewhere other registries have been driven by a specific research agenda, e.g. genetics research. Important insights have already been obtained from registries and linking phenotypic data with biological data, can potentiate biomedical research. However successful registries/ biobanks rely on engagement by the ASD community and are as much about necessity as are trust, engagement and ethical considerations. Here we discuss four experiences of registries/ biobanking. A successful researcher led UK registry, ASD UK has leveraged engagement with clinical services. A parent advocacy group for a rare ASD related condition, Phelan McDermid Syndrome, showed that parents could inspire scientists to research the condition. A national consultation with ASD Stakeholders in Ireland revealed strong support but also mistrust that a registry/ biobank could be used prejudicially. In China a biobank/ registry project will enhance autism awareness and research but faces huge geographical challenges. We will discuss the challenges encountered and how social and cultural contexts has been influential in shaping these initiatives.

10:30 167.001 Recruitment of Families to ASD Research Databases through the UK Publicly Funded Healthcare System J. R. Parr[1] and H. McConachie[2], (1)Institute of Neuroscience, Newcastle University, Newcastle, England, (2)Newcastle University, Newcastle upon Tyne, United Kingdom

10:55 167.002 International Registry Models: Phelan-Mcdermid Syndrome International Registry M. O'Boyle[1] and S. Lomas[2], (1)Phelan-McDermid Syndrome Foundation, Arlington, VA, (2)Phelan McDermid Syndrome Foundation, Venice, FL

11:20 ▸ 167.003 Creating an Interactive National Registry for ASD in China X. Zou[1], H. Guo[2], X. Wang[3], B. Chen[4] and P. H. Lipkin[5], (1)Pediatrics, Child Developmental & Behavioral Center, The 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, MD, (2)China Women's Development Foundation(CWDF), Beijing, China, (3)School of Mathematics & Computational Science, Sun Yat-sen University, Guangzhou, China, (4)Child Developmental & Behavioral Center (CDBC), The 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, China, (5)Pediatrics/Neurology and Developmental Medicine, Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD

11:45 167.004 National Stakeholder Consultation for a National Registry for Autism and Related Neurodevelopmental Disorders G. Leader[1], J. O'Reilly[2], A. M. M. Daniels[3], A. Shih[4] and L. Gallagher[5], (1)Psychology, National University of Ireland Galway, Galway, Ireland, (2)Trinity College Dublin, Dublin, Ireland, (3)Science, Autism Speaks, New York, NY, (4)Autism Speaks, New York, NY, (5)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland

12:10 Discussant

Panel Session
168 - Investigating Multiple Components of Language Development in the Same Children: The Uconn Early Language Study
10:30 AM - 12:30 PM - Grand Ballroom D

Session Chair: L. Naigles, *University of Connecticut, Storrs, CT*

Studies of language in children with ASD usually target just one linguistic component (e.g., pragmatics, maternal interaction, grammar, word learning, expressive/receptive language, joint attention, gesture); however, actual language development/use involves all of these simultaneously. The UCONN Early Language Study includes a unique dataset in which multiple components of language were assessed at multiple visits over a 2-year span, in >30 children with ASD plus >30 TD children who were matched on language at study onset. This panel presents four different analyses of this dataset, carried out by different researchers focusing on different language components in the same children, revealing how language components interact during development. Included are (1) analyses of the children's gestures during mother-child play sessions early in the study, and which gestures predict speech and language abilities 2 years later; (2) reports on the general lexical and grammatical growth rates of the children's speech over time, and how these rates are influenced by—and reciprocally influence—the mothers' speech; (3) analyses of the children's verb development, comparing emergence of e.g., action, mental, and social verbs; (4) data on the children's comprehension of words and grammar, especially considering how early comprehension abilities impact later language use. Cross-paper integration will be highlighted.

10:30 168.001 The Role of Gestures in Early Language Development in Children with ASD A. Goodwin[1], S. Goldin-Meadow[2], D. A. Fein[3] and L. Naigles[4], (1)Waisman Center, University of Wisconsin, Madison, WI, (2)University of Chicago, Chicago, IL, (3)Psychology, University of Connecticut, Storrs, CT, (4)University of Connecticut, Storrs, CT

11:00 168.002 Language Development in Context: A Longitudinal Study of Typically-Developing Children and Children with ASD R. Fusaroli[1], E. Weed[2], D. A. Fein[3] and L. Naigles[4], (1)Center of functionally Integrative Neuroscience, Aarhus University Hospital, Aarhus, Denmark, (2)Aarhus University, Aarhus, Denmark, (3)Psychology, University of Connecticut, Storrs, CT, (4)University of Connecticut, Storrs, CT

11:30 168.003 Growth Trajectories of Longitudinal Naturalistic Verb Use in ASD: Verb Category Matters J. Parish-Morris[1], D. A. Fein[2] and L. Naigles[3], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT

12:00 168.004 Form Is Easy, Meaning Is Hard: What Language Comprehension Reveals about Language in Autism L. Naigles[1] and D. A. Fein[2], (1)University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT

Panel Session
169 - You Want Me to Eat What? Novel Treatment Approaches for Food Selectivity and Feeding Problems in Children with Autism Spectrum Disorder
10:30 AM - 12:30 PM - Grand Salon

Session Chair: E. S. Kuschner, *Children's Hospital of Philadelphia, Philadelphia, PA*

Food selectivity and feeding problems are highly prevalent in children with ASD, yet few empirically supported interventions are available. Behavioral interventions are widely used in clinical feeding programs and show promise in preliminary studies; however, these time-intensive treatments are generally limited to inpatient or day treatment settings and have not been rigorously examined via randomized clinical trials. This symposium will present current efforts in the field aimed at establishing evidence-based treatments for the heterogeneous array of food selectivity and feeding problems in ASD. Three novel treatments at different stages of rigorous intervention development and evaluation will be presented: Autism MEAL Plan, Parent Training Program for Feeding Problems, and the BUFFET Program. These programs aim to bring feeding treatments to an outpatient setting and incorporate novel treatment components, including greater parental involvement, closer collaboration across disciplines (behavior specialists and nutrition experts), utilization of a group therapy model, and cognitive behavioral strategies tailored for older and cognitively higher functioning individuals. A final presentation will discuss co-occurring factors (i.e., obesity and physical activity) that may be key mediators or moderators to treatment response and merit consideration for integration into feeding treatment programs.

10:30 169.001 The Autism Meal Plan: A Parent-Training Curriculum to Manage Eating Aversions and Low Intake Among Children with ASD T. L. Burrell[1] and W. G. Sharp[2], (1)Research, Marcus Autism Center, Atlanta, GA, (2)Pediatric Feeding Disorders Program, Marcus Autism Center, Atlanta, GA

11:00 169.002 Parent Training for Feeding Problems in Young Children with Autism Spectrum Disorder C. Johnson[1], T. Smith[2] and S. L. Hyman[3], (1)University of Pittsburgh, Pittsburgh, PA, (2)601 Elmwood Ave, Box 671, University of Rochester, Rochester, NY, (3)Department of Pediatrics and Clinical and Translational Science Institute, University of Rochester School of Medicine, Rochester, NY

11:30 169.003 The Buffet Program: A Cognitive Behavior Therapy Approach to Food Selectivity in School Age Children with ASD E. S. Kuschner[1], A. de Marchena[2], B. Maddox[3], H. Morton[3] and J. Worley[3], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)The Children's Hospital of Philadelphia, Philadelphia, PA

12:00 169.004 Obesity As a Modifiable Risk Factor in the Treatment of Feeding Problems in Children with ASD L. Bandini, Pediatrics, University of Massachusetts Medical School/Eunice Kennedy Shriver Center and Boston University, Boston, MA

Poster Session
170 - Animal Models
11:30 AM - 1:30 PM - Imperial Ballroom

1 170.001 A Monoclonal Brain-Reactive Antibody Leads to ASD-like Phenotype in Male Mice L. Brimberg[1], S. Mader[2], V. Jeganathan[3], P. T. Huerta[4], R. Berlin[5], P. K. Gregersen[6], B. T. Volpe[5] and B. Diamond[7], (1)Center fro Autoimmune and Musculoskeletal Disease, The Feinstein Institute for Medical Research, Manhasset, NY, (2)Center fro Autoimmune and Musculoskeletal Disease, Feinstein Institute for medical Reaserch, Manhasset, NY, (3)Center for Autoimmune and Musculoskeletal Diseases, The Feinstein Institute for Medical Research, Manhasset, NY, (4)Laboratory of Immune and Neuronal Networks, Feinstein Institute for medical Reaserch, Manhasset, NY, (5)Functional Neuroanatomy, Feinstein Institute for medical Reaserch, Manhasset, NY, (6)Center for Genomics and Human Genetics, Feinstein Institute for Medical Research, Manhasset, NY, (7)Center for Autoimmune and Musculoskeletal Diseases, The Feinstein Institute For Medical Research, Manhasset, NY

2 170.002 Anterior Cerebellum Purkinje Cells-Restricted Expression of Mutant DISC1 Produces Neurobehavioral Abnormalities Relevant to Autism Spectrum Disorders A. V. Shevelkin[1,2], B. N. Abazyan[1], C. Yang[1], O. A. Mychko[1], G. L. Rudow[3], J. C. Troncoso[3] and M. V. Pletnikov[1,4], (1)Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, MD, (2)Division of System Neurobiology and Functional Neurochemistry, P.K.Anokhin Research Institute of Normal Physiology, Moscow, Russia, (3)Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, (4)Solomon H. Snyder Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore, MD

3 170.003 Bidirectional Changes in UBE3A Gene Dosage Reciprocally Regulate Aggression in Mouse Models of Angelman Syndrome and Idic15 M. P. Anderson[1,2,3,4], D. Stoppel[5] and Y. Nong[5], (1)Pathology/Neurology, Harvard Medical School/Beth Israel Deaconess Medical Center, Boston, MA, (2)Pathology, Boston Children's Hospital, Boston, MA, (3)Autism BrainNET, Boston, MA, (4)Children's Hospital Boston Intellectual and Developmental Disabilities Research Center, Boston, MA, (5)Harvard Medical School/Beth Israel Deaconess Medical Center, Boston, MA

4 170.004 Decreased Akt/mTOR Pathway Is Associated with Reduced Excitatory Synaptic Marker PSD-95 and Autistic-like Behavior in Valproic Acid-Exposed Mice C. Nicolini[1], V. Aksenov[2], E. Rosa[1] and M. Fahnestock[1,2], (1)Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada, (2)Biology, McMaster University, Hamilton, ON, Canada

5 170.005 Deletion of Pten in Oxytocinergic Cells Leads to Social Behavioral Deficits and Decreased Oxytocinergic Cell Number A. E. Clipperton-Allen, Y. Chen and D. T. Page, Neuroscience, The Scripps Research Institute, Scripps Florida, Jupiter, FL

6 170.006 Developmental, Behavioral, and Neurobiological Consequences of Maternal Allergic Asthma: A Mouse Model in Support of Clinical Findings J. Schwartzer[1], M. Careaga[2], C. Chang[3], C. E. Onore[4] and P. Ashwood[5], (1)Neuroscience and Behavior, Mount Holyoke College, South Hadley, MA, (2)UC Davis/MIND Institute, Sacramento, CA, (3)University of California, Davis, Davis, CA, (4)MIND Institute, UC Davis, Sacramento, CA, (5)UC Davis, Sacramento, CA

7 170.007 Effects of Acute N-Acetylcysteine Administration on Striatal Glutamate Concentrations and Behaviour in C57BL/6J Adult Mice A. Durieux[1], C. Fernandes[2], D. G. Murphy[3], M. Labouesse[4], S. Giovanoli[4], J. Horder[1], U. Meyer[4], P. W. So[5] and G. M. McAlonan[3], (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Social, Genetic and Developmental Psychiatry, King's College London, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (4)Physiology and Behaviour Laboratory, Swiss Federal Institute of Technology, Zurich, Switzerland, (5)Department of Neuroimaging, Institute of Psychiatry, King's College London, London, United Kingdom

8 170.008 Estrogen Receptor Beta Signaling and Transglutaminase 2 in Sex Specific ASD-like Behavior in Mice A. M. Crider[1] and A. Pillai[2], (1)GRU, Augusta, GA, (2)Psychiatry, GRU, AUGUSTA, GA

9 170.009 Impaired Decision Making in Mice Lacking Met Receptor in the Cerebral Cortex E. M. Powell[1], J. M. Smith[2] and R. F. Martin[3], (1)HSF II S251, 20 Penn St, University of Maryland - Medicine, Baltimore, MD, (2)University of Maryland Baltimore, Baltimore, MD, (3)University of Maryland - Medicine, Baltimore, MD

10 170.010 Increased Proinflammatory Cytokines Associated with Increased Abnormal Behaviors in a Non-Human Primate Model of Maternal Immune Activation D. Rose[1], M. Careaga[1], H. Yang[1], A. K. McAllister[2], C. S. Carter[3], D. G. Amaral[4], M. D. Bauman[1] and P. Ashwood[1], (1)UC Davis/MIND Institute, Sacramento, CA, (2)Center for Neuroscience, UC Davis, Davis, CA, (3)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, Sacramento, CA, (4)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA

11 170.011 Loss of MeCP2 in the Rat Uniquely Models Regression, Impaired Sociability, and Transcriptional Deficits of Rett Syndrome R. C. Samaco[1,2], S. Veeraragavan[1], S. M. Hamilton[1], C. S. Ward[2,3], S. Soriano[1,2], Y. W. Wan[2,4], M. R. Pitcher[2,5], C. M. McGraw[2,6,7], W. Yan[1,2,8], J. R. Green[1], L. Yuva[1], A. J. Liang[1,2], J. L. Neul[2,3,9], D. H. Yasui[10], J. M. LaSalle[10,11], Z. Liu[2,3] and R. Paylor[1], (1)Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, (2)Jan and Dan Duncan Neurological Research Institute, Houston, TX, (3)Pediatrics, Section of Neurology, Baylor College of Medicine, Houston, TX, (4)Obstetrics and Gynecology, Baylor College of Medicine, Houston, TX, (5)Program in Translational Biology and Molecular Medicine, Baylor College of Medicine, Houston, TX, (6)Medical Scientist Training Program, Baylor College of Medicine, Houston, TX, (7)Neurology, University of California, San Francisco, San Francisco, CA, (8)Neurology, Xiangya Hospital, Central South University, Changsha, China, (9)Neurosciences, Division of Child Neurology, University of California, San Diego, San Diego, CA, (10)Medical Microbiology and Immunology, University of California, Davis, Davis, CA, (11)MIND Institute, Sacramento, CA

12 170.012 N-3 Polyunsaturated Fatty Acid Supplementation Prevents Adult Brain Biochemistry and Behavioral Changes Elicited By Prenatal Exposure to Maternal Inflammation Q. Li[1], Y. O. Leung[2], W. Kong[2], I. Y. Zhou[3], L. C. Ho[2], B. Paul[4], R. Wei[5], S. Lam[2], X. F. Zhang[2], A. Law[2], E. Chen[2], S. Chua[2], P. C. Sham[6], E. X. Wu[7] and G. M. McAlonan[8], (1)The University of Hong Kong, Hong Kong, Hong Kong, (2)HKU, HK, Hong Kong, (3)Department of Radiology, Athinoula. A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital and Harvard Medical School, Charlestown, MA, (4)The University of hongkong, sasoon road, HKU, Hong Kong, Hong Kong, (5)Institute of Basic Medicine, Shandong Academy of Medical Sciences, Jinan, China, (6)Centre for Genomic Sciences, The University of Hong Kong, Hong Kong, Hong Kong, (7)HKU, Hong Kong, China, (8)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

13 170.013 Neuropathology of Maternal Immune Activation in a Nonhuman Primate Model R. K. Weir[1], R. Forghany[2], C. M. Schumann[3] and M. D. Bauman[4], (1)Psychiatry and Behavioral Sciences, MIND Institute, UC Davis, Sacramento, CA, (2)MIND Institute, UC Davis, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (4)UC Davis/MIND Institute, Sacramento, CA

14 170.014 Norepinephrine Fiber Innervation Is Increased in the Amygdala of the Engrailed-2 (En2) Knock out Mouse Model of Neurodevelopmental Disorders J. W. Lunden[1], M. Genestine[1], C. C. Peng[2], S. Prem[1], V. R. Mirabella[3] and E. DiCicco-Bloom[4], (1)Neuroscience and Cell Biology, Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, (2)Rutgers University, Piscataway, NJ, (3)Rutgers University, Child Health Institute of New Jersey, New Brunswick, NJ, (4)Department of Neuroscience & Cell Biology/Pediatrics (Neurology), Rutgers Robert Wood Johnson Medical School, Piscataway, NJ

15 170.015 Pharmacological Treatment of Repetitive Behavior in the Context of Development A. M. Muehlmann and M. H. Lewis, University of Florida, Gainesville, FL

16 170.016 Pten Mutations Alter Brain Growth Trajectory and Allocation of Cell Types through Elevated Beta-Catenin Signaling Y. Chen, W. C. Huang, J. Sejourne, A. E. Clipperton-Allen and D. T. Page, Neuroscience, The Scripps Research Institute, Scripps Florida, Jupiter, FL

17 170.017 Regulation of Seizure Susceptibility in Shank3 Deficiency E. Drapeau, O. B. Gunal, J. Hanks and J. D. Buxbaum, Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY

18 170.018 Striking Differences in the Neuroanatomical Phenotype of the Neuroligin3 R451C Knock-in and the Neurexin1Î± Knock-out J. Ellegood[1], F. Espinosa[2], M. Kouser[3], Z. Xuan[3], C. M. Powell[4] and J. P. Lerch[5], (1)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (2)Neurology, U of T Southwestern, Dallas, TX, (3)U of T Southwestern, Dallas, TX, (4)Neurology & Neurotherapeutics, The University of Texas Southwestern Medical Center, Dallas, TX, (5)Hospital for Sick Children, Toronto, ON, Canada

19 170.019 Unusual Adult Reciprocal Social Interactions, Ultrasonic Vocalizations, Self-Grooming, Seizure Activity and EEG Gamma-Power in Shank3B Knockout Mice: Replications and New Discoveries J. L. Silverman[1], M. C. Pride[1], N. A. Copping[1], J. E. Hayes[1], S. H. Lammers[2], S. C. Dhamne[2], A. Rotenberg[2], E. Chadwick[3], D. G. Smith[4], M. Sahin[2] and J. N. Crawley[1], (1)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis School of Medicine, Sacramento, CA, (2)Neurology, Boston Children's Hospital, Boston, MA, (3)Boston Children's Hospital, Boston, MA, (4)Autism Speaks, Boston, MA

20 170.020 Zebrafish mbd5 Loss of Function Mutation Affect Embryonic Neuron Differentiation and Maturation Y. Wang[1], H. Zhou[2], X. Du[2] and Y. Wang[1], (1)Children's Hospital of Fudan University, Shanghai, China, (2)Children's Hospital of Fudan University, Shanghai, China

21 170.021 • Maternal Immune Activation in Mice: A Longitudinal Analysis in the C57 Strain L. Ricceri, D. Vigli and M. L. Scattoni, Dept. Cell Biology and Neuroscience, Istituto Superiore di Sanità, Rome, Italy

Poster Session
171 - Brain Structure
11:30 AM - 1:30 PM - Imperial Ballroom

22 171.022 Activation Likelihood Estimation Guided Investigation into the Anatomy of the Social Brain in Autism T. DeRamus[1], M. Patriquin[2] and R. K. Kana[1], (1)Department of Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Baylor College of Medicine, Houston, TX

23 171.023 Age Related Differences in White Matter Diffusion Measures in Autism Spectrum Disorder A. Thompson[1], A. Shahidiani[1], J. O'Muircheartaigh[2], L. Walker[3], V. D'Almeida[4], C. M. Murphy[5], E. Daly[6], D. G. Murphy[6], S. Williams[7], S. Deoni[3] and C. Ecker[8], (1)Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (2)Institute of Psychiatry, London, United Kingdom, (3)Brown University, Providence, RI, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (5) Institute of Psychiatry, King's College London, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (7)Department of Neuroimaging, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (8)The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom

24 171.024 Age-Related Decline in Neuron Number in the Amygdala in ASD N. Barger[1], M. V. Vargas[2] and C. M. Schumann[1], (1)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (2)UC Davis MIND Institute, Sacramento, CA

25 171.025 Altered Hippocampal-Cortical Gray-Matter Structural Covariance in Males with Autism Spectrum Disorder H. Y. Lin[1], Y. C. Chen[1], J. O. Goh[2], W. Y. I. Tseng[3] and S. S. F. Gau[1], (1)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (2)Graduate Institute of Brain and Mind Sciences, National Taiwan University College of Medicine, Taipei, Taiwan, (3)Center for Optoelectronic Medicine, National Taiwan University College of Medicine, Taipei, Taiwan, Taipei, Taiwan

26 171.026 An Investigation of the Microstructural Organisation of the Fronto-Parietal Branches of the Superior Longitudinal Fasciculus Using Constrained Spherical Deconvolution Based Tractography in Autism Spectrum Disorders J. E. Fitzgerald, L. Gallagher and J. McGrath, Trinity College Dublin, Dublin, Ireland

27 171.027 Anomalous Anatomical Connectivity Networks in Children with High Functioning Autism Spectrum Disorder D. J. Peterson[1], R. A. Vasa[2,3] and S. H. Mostofsky[1,3], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (3)Johns Hopkins School of Medicine, Baltimore, MD

28 171.028 Atypical Cortical Gyrification but Not Autism Spectrum Disorder Diagnosis Predicts Differences in White-Matter Wiring D. Andrews[1,2], E. Daley[1,2], C. Murphy[1,2,3], M. Gudbrandsen[1,2], MRC AIMS Consortium[1], D. G. Murphy[1,2] and C. Ecker[1,2], (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Behavioral and Developmental Psychiatry Clinical Academic Group, South London and Maudsley Foundation NHS Trust, London, United Kingdom

29 171.029 Atypically Rightward Cortical Asymmetry in Both Children and Male Adults with Autism D. L. Floris[1], M. C. Lai[2], M. V. Lombardo[3], C. Ecker[4], B. Chakrabarti[5], E. Bullmore[6], M. AIMS Consortium[7], D. G. Murphy[8], J. Suckling[6], A. D. Barber[9], M. B. Nebel[9], S. H. Mostofsky[9] and S. Baron-Cohen[7], (1)Kennedy Krieger Institute, Cambridge, England, United Kingdom, (2)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (3)Department of Psychology, University of Cyprus, Nicosia, Cyprus, (4)The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom, (5)Centre for Integrative Neuroscience and Neurodynamics, School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (6)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (7)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (8)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (9)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD

30 171.030 Brain Volumes Associated with High Levels of Aggression in ASD S. N. Tass[1], K. Stephenson[2], M. D. Prigge[3], R. Lundwall[2], J. C. Cox[4], M. South[5], M. E. Maisel[2], R. Kellems[6], B. D. Hansen[6], E. Bigler[5] and T. P. Gabrielsen[6], (1)Department of Statistics, Brigham Young University, Provo, UT, (2)Department of Psychology, Brigham Young University, Provo, UT, (3)University of Utah, Salt Lake City, UT, (4)Counseling and Psychological Services, Brigham Young University, Provo, UT, (5)Psychology and Neuroscience, Brigham Young University, Provo, UT, (6)CPSE, Brigham Young University, Provo, UT

31 171.031 Co-Occurring Anxiety Disorders Are Uniquely Associated with Decreased Amygdala Volume in ASD J. D. Herrington[1,2], J. Pandey[2], K. Rump[2], J. Worley[3], C. M. Kerns[4], R. T. Schultz[2,5] and J. Miller[1,2], (1)Department of Child Psychiatry and Behavioral Science, University of Pennsylvania, Philadelphia, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)SPIN, Philadelphia, PA, (4)Drexel University, Philadelphia, PA, (5)University of Pennsylvania, Philadelphia, PA

32 171.032 Correlations Between Depression and Anxiety Scores and Subcortical Regional Volumes in Autism Spectrum Disorder R. Wichers[1], E. Daly[1], M. R. C. A. I. M. S. Consortium[1,2,3], D. G. Murphy[1] and C. Ecker[1], (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Group, University of Oxford, Oxford, United Kingdom

33 171.033 Different Patterns of Cortical Brain Alterations in Preschool-Aged Boys with Autism Spectrum Disorder with and without Intellectual Disability Y. Feng[1], H. Ota[2,3], S. J. Rogers[3], D. G. Amaral[3], F. Hoeft[4] and C. W. Nordahl[3], (1)University of California Davis Medical Center, Health Informatics Program, Sacramento, CA, (2)Psychiatry, Showa University School of Medicine, Tokyo, Japan, (3)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (4)Psychiatry, University of California at San Francisco, San Francisco, CA

34 171.034 Group Differences in Head Motion May Confound Anatomical Connectivity Findings from DWI S. Solders, R. Carper and R. A. Müller, Psychology, San Diego State University, San Diego, CA

35 171.035 Immunophenotype of Activated Astrocytes Associated with Brain-Region-Specific Neuronal Migration Abnormalities in Idiopathic Autism and Autism Caused By Chromosome 15q11.2-q13 Duplications **J. Wegiel**[1], G. LaFauci[2], T. Adayev[2], R. J. Kascsak[3], R. Kascsak[3], W. Kaczmarski[1], T. Wisniewski[4], W. T. Brown[4] and J. Wegiel[1], (1)Developmental Neurobiology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Developmental Biochemistry, Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Monoclonal Antibody Facility, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (4)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY

36 171.036 Impaired White Matter Integrity in Unaffected Siblings of Probands with Autism Spcectrum Disorders **Y. L. Chien**[1], S. S. F. Gau[2], Y. J. Chen[3] and W. Y. I. Tseng[3], (1)National Taiwan University, Taipai, Taiwan, Taiwan, (2)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (3)Center for Optoelectronic Medicine, National Taiwan University College of Medicine, Taipei, Taiwan, Taipei, Taiwan

37 171.037 Influence of Speech Onset Delay on Cortical Gyrification in Adolescent and Young Adults with Autism Spectrum Disorders **P. Duret**[1,2], B. Pinsard[3,4,5,6], A. Boré[3], F. Samson[1], E. B. Barbeau[1], I. Soulières[7,8] and L. Mottron[1], (1)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Ecole Normale Supérieure de Lyon, Lyon, France, (3)Unité de neuroimagerie fonctionnelle, Centre de recherche de l'institut universitaire de gériatrie de Montréal, Montréal, QC, Canada, (4)UMR 7371, UMR_S 1146, Laboratoire d'Imagerie Biomédicale, Sorbonne Universités, UPMC Univ Paris 06, Paris, France, (5)Laboratoire d'Imagerie Biomédicale, CNRS, UMR 7371, Paris, France, (6)Laboratoire d'Imagerie Biomédicale, INSERM, UMR_S 1146, Paris, France, (7)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montréal, QC, Canada, (8)Department of Psychology, Université du Québec à Montréal, Montréal, QC, Canada

38 171.038 Intrainsular White Matter Connectivity and Sensory Profiles in Children with and without Autism Spectrum Disorder **B. R. Peters**[1], L. E. Mash[2], H. Karbasforoushan[3], K. B. Schauder[4] and C. J. Cascio[2], (1)Vanderbilt Childrens Hospital, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Northwestern University, Chicago, IL, (4)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY

39 171.039 Longitudinal Cortical Thickness Development in Relation to Changes in SRS Scores over Time in Autism **M. D. Prigge**[1], N. Lange[2], E. D. Bigler[3], K. Zygmunt[4], B. G. Travers[5], T. Abildskov[6], A. Froehlich[1], P. T. Fletcher[1], A. Alexander[7], B. A. Zielinski[8] and J. E. Lainhart[9], (1)University of Utah, Salt Lake City, UT, (2)McLean Hospital, Belmont, MA, (3)Psychiatry, University of Utah, Salt Lake City, UT, (4)Computer Science, University of Utah, Salt Lake City, UT, (5)Kinesiology, Program of Occupational Therapy, Waisman Center, University of Wisconsin-Madison, Madison, WI, (6)Psychology, Brigham Young University, Provo, UT, (7) Waisman Center, University of Wisconsin-Madison, Madison, WI, (8)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (9)Psychiatry, Waisman Center, University of Wisconsin-Madison, Madison, WI

40 171.040 Maturational Differences in Auditory Event-Related Potentials According to Presence Versus Absence of Language Impairment in Children with Autism Spectrum Disorder **E. Kwok**[1], L. M. Archibald[2], M. Joanisse[3], R. Nicolson[4], R. E. Smyth[5] and J. Oram Cardy[6], (1)Communication Sciences and Disorders, Western University, London, ON, Canada, (2)Communication Sciences and Disorders, Western University, Canada, London, ON, Canada, (3)Psychology, University of Western Ontario, London, ON, Canada, (4)Psychiatry, Western University, London, ON, Canada, (5)Health and Rehabilitation Sciences, Western University, London, ON, Canada, (6)Communication Sciences and Disorders, University of Western Ontario, London, ON, Canada

41 171.041 Microstructural Covariance of White Matter in Autism Spectrum Disorder **D. C. Dean**[1], B. G. Travers[2], E. D. Bigler[3], M. D. Prigge[4], A. Froehlich[4], N. Lange[5], A. Alexander[1] and J. E. Lainhart[6], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)Kinesiology, Program of Occupational Therapy, Waisman Center, University of Wisconsin-Madison, Madison, WI, (3)Psychiatry, University of Utah, Salt Lake City, UT, (4)University of Utah, Salt Lake City, UT, (5)McLean Hospital, Belmont, MA, (6)Psychiatry, Waisman Center, University of Wisconsin-Madison, Madison, WI

42 171.042 Neuroanatomical Abnormalities Are Shared By Males with Autism and Their Unaffected Brothers **S. S. F. Gau**[1], H. Y. Lin[1] and W. Y. I. Tseng[2], (1)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (2)Center for Optoelectronic Medicine, National Taiwan University College of Medicine, Taipei, Taiwan, Taipei, Taiwan

43 171.043 Probing the Neural Circuits Underlying the Social Brain Using Diffusion Tractography and Graph Theory **L. Li**[1], J. Bachevalier[2], X. Hu[3], S. Shultz[1] and W. Jones[1], (1)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Developmental and Cognitive Neuroscience Division, Yerkes National Primate Research Center, Emory University, Atlanta, GA, (3)Department of Biomedical Engineering, Emory University School of Medicine, Atlanta, GA

44 171.044 Repetitive Behavior Symptoms Associated with Hippocampus and Amygdala Volumes in ASD **C. B. Kirwan**[1], C. Finuf[2], N. Muncey[2] and M. South[1], (1)Psychology and Neuroscience, Brigham Young University, Provo, UT, (2)Brigham Young University, Provo, UT

45 171.045 Structural Connectivity Between Orbitofrontal Cortex and Amygdala and Its Association with Socio-Emotional Skills in Autism Spectrum Disorder **A. C. Samson**[1], J. J. Gross[1], Y. Enav[1], R. F. Dougherty[2], J. M. Phillips[3] and A. Y. Hardan[3], (1)Department of Psychology, Stanford University, Stanford, CA, (2)Stanford Center for Neurobiological Imaging, Department of Psychology, Stanford University, Stanford, CA, (3)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

46 171.046 Temporal Lobe over-Connectivity Differentiates Autism Spectrum Disorder from Other Neurodevelopmental Disorders in Toddlers: A Hardi Diffusion MRI Study **E. Conti**[1,2], J. Mitra[3], S. Calderoni[2], G. Cioni[1,2], S. Mazzotti[2], F. Muratori[1,2], S. Rose[4], K. K. Shen[4] and A. Guzzetta[1,2], (1)Developmental Neuroscience, University of Pisa, Pisa, Italy, (2)Stella Maris Scientific Institute, Pisa, Italy, (3)Digital Productivity Flagship, The Australian eHealth Research Centre, CSIRO, Herston, Australia, (4)The Australian eHealth Research Centre, CSIRO, Brisbane, Australia

47 171.047 The 16p11.2 Locus Modulates Brain Structures Common to Autism, Schizophrenia and Obesity **A. M. Maillard**[1], A. Ruef[2], F. Pizzagalli[3], E. Migliavacca[4], L. Hippolyte[3], S. Adaszewski[3], J. Dukart[3], C. Ferrari[3], P. Conus[3], K. Männik[4], M. Zazhytska[4], V. Siffredi[3], P. Maeder[3], Z. Kutalik[3], F. Kherif[3], N. Hadjikhani[5,6,7], J. Beckmann[3], A. Reymond[8], B. Draganski[3,9] and S. Jacquemont[1], (1)Service of Medical Genetics, Lausanne University Hospital, Lausanne, Switzerland, (2)LREN - Département des neurosciences cliniques, Lausanne University Hospital, Lausanne, Switzerland, (3)Lausanne University Hospital, Lausanne, Switzerland, (4)University of Lausanne, Lausanne, Switzerland, (5)Massachussetts General Hospital, Charlestown, MA, (6)Brain Mind Institute, EPFL, Lausanne, Switzerland, (7)University of Gothenburg, Gothenburg, Sweden, (8)Center for Integrative Genomics, University of Lausanne, Lausanne, Switzerland, (9)Max Plank Institute, Leipzig, Germany

48 171.048 The Effect of Demographic and Clinical Features on the Volume of Corpus Callosum in Preschoolers with Autism Spectrum Disorder: A Case-Control Study S. Calderoni[1], I. Saviozzi[2], A. Giuliano[3], P. Brambilla[4], E. Veronese[5], A. Retico[3] and F. Muratori[6], (1)Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute, Pisa, PI, Italy, (2) IRCCS Stella Maris Foundation, Pisa, Italy, (3)Istituto Nazionale di Fisica Nucleare; Sezione di Pisa, Pisa, Italy, (4)Department of Experimental & Clinical Medicine, University of Udine, Udine, Italy, (5)IRCCS Eugenio Medea Scientific Institute, Udine, Italy, (6)Stella Maris Scientific Institute, Calambrone (Pisa), Italy

49 171.049 White Matter Integrity Associated with Symptoms of Co-Occurring Mood and Anxiety Disorder in Autism Spectrum Disorder: A Tract-Based Spatial Statistics and Tractography Analysis J. L. Findon[1], A. Thompson[2], H. Howells[3], D. M. Robertson[4], C. M. Murphy[3], F. Dell'Acqua[5], M. R. C. A. I. M. S. Consortium[6], E. Daly[7], M. Catani[5] and D. G. Murphy[7], (1)Institute of Psychiatry, King's College London, London, England, United Kingdom, (2)Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (3)Institute of Psychiatry, King's College London, London, United Kingdom, (4)Behavioural Genetics Clinic, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (5)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (6)Autism Research Group, University of Oxford, Oxford, United Kingdom, (7)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

50 171.050 Widespread White Matter Diffusivity Changes in Autism: A Tract Based Statistical Analysis of Diffusion Tensor Imaging Study M. Alshikho[1,2,3], N. Shetty[1,2,3], S. Ghosh[1,2,3], E. M. Ratai[2,3,4] and M. R. Herbert[2,3,5], (1)Neurology, Massachusetts General Hospital/ Harvard Medical School, Boston, MA, (2)MGH/HST Martinos Center for Biomedical Imaging, Charlestown, MA, (3)Massachusetts General Hospital/ TRANSCEND, Charlestown, MA, (4)Radiology, Massachusetts General Hospital/Harvard Medical School, Boston, MA, (5)Neurology, Massachusetts General Hospital/Harvard Medical School, Charlestown, MA

Poster Session
172 - Brain Function
11:30 AM - 1:30 PM - Imperial Ballroom

51 172.051 A Proton 7T MR Spectroscopy Study of ASD: Altered Creatine Levels M. Ravishankar[1], A. Remington[2], S. Braeutigam[1], U. Emir[1], C. Newton[3] and S. Chance[4], (1)University of Oxford, Oxford, United Kingdom, (2)Institute of Education, London, United Kingdom, (3)Psychiatry, University of Oxford, Oxford, United Kingdom, (4)Clinical Neurosciences, University of Oxford, Oxford, United Kingdom

52 172.052 Abnormal MEG Gamma Oscillations Induced By Visual Motion in Children with ASD T. A. Stroganova[1], A. Butorina[1], O. V. Sysoeva[1] and E. Orekhova[1,2], (1)MEG Centre, Moscow State University of Psychology and Education, Moscow, Russia, (2)Gillberg Neuropsychiatry Centre, University of Gothenburg, Gothenburg, Sweden

53 172.053 Age-Associated Changes in Functional Networks in ASD: Is There a Shift from Overconnectivity in Childhood to Underconnectivity in Young Adulthood? N. Ray[1], A. Jahedi[1], C. P. Chen[1], I. Fishman[1] and R. A. Müller[2], (1)Brain Development Imaging Laboratory, Dept. of Psychology, San Diego State University, San Diego, CA, (2)San Diego State University, San Diego, CA

54 172.054 Altered Neural Responses to Familiar and Unfamiliar Speech in Six-Week Old Infants at High Risk for ASD M. Dapretto[1], C. Ponting[2], T. Tsang[3], R. McCarron[2] and S. Y. Bookheimer[2], (1)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA, (2)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA

55 172.055 Altered Resting State Functional Network Topology Across Neurological Conditions: A Comparison of Autism Spectrum Disorder with Phenylketonuria and Traumatic Brain Injury R. M. Zamzow[1], J. D. Johnson[2], J. P. Hegarty II[1], G. Yao[3], D. Q. Beversdorf[4] and S. E. Christ[5], (1)Interdisciplinary Neuroscience Program, University of Missouri, Columbia, MO, (2)Psychological Sciences, University of Missouri, Columbia, MO, (3)Biological Engineering, University of Missouri, Columbia, MO, (4)Radiology, Neurology, Psychological Sciences, University of Missouri, Columbia, MO, (5)University of Missouri, Columbia, MO

56 172.056 An Integration of fMRI Neural Effects of Oxytocin in Children with ASD: Insights from Three Paradigms of Social Processing I. Gordon[1,2], B. C. Vander Wyk[1], A. Jack[1], C. M. Pretzsch[3], R. H. Bennett[4], M. V. Lucas[5], C. Cordeaux[1], J. A. Eilbott[5], R. Feldman[6], J. F. Leckman[1] and K. Pelphrey[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Psychology, Bar Ilan University, Ramat Gan, Israel, (3)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (4)Yale Child Study Center, New Haven, CT, (5)Yale University, New Haven, CT, (6)Bar-Ilan University, Ramat-Gan, Israel

57 172.057 An fMRI Exploration of Atypical Multisensory Perception in Autism Spectrum Disorders S. M. Brown-Lavoie[1], R. A. Stevenson[2], M. T. Wallace[3], J. M. Bebko[4] and W. D. Stevens[1], (1)York University, Toronto, ON, Canada, (2)Vanderbilt University School of Medicine, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Psychology, York University, Toronto, ON, Canada

58 172.058 Atypical Generalization of Learning in Adolescents with Autism Spectrum Disorders: An fMRI Study of Transitive Inference M. Solomon[1], J. D. Ragland[2], T. A. Niendam[1], T. A. Lesh[1], J. Beck[3] and C. S. Carter[1], (1)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, Sacramento, CA, (2)Psychiatry, Imaging Research Center, Sacramento, CA, (3)UC Davis MIND Institute, Davis, CA

59 172.059 Auditory Event-Related Potentials As a Function of Clinical Sensory Subtype in Autism Spectrum Disorder A. E. Lane[1], J. Eldridge[2], B. N. Hand[3], K. Harpster[4] and S. J. Dennis[1], (1)University of Newcastle, Callaghan, Australia, (2)The Ohio State University, Columbus, OH, (3)Health and Rehabilitation Science, The Ohio State University, Columbus, OH, (4)Cincinnati Children's Hospital Medical Center, Cincinnati, OH

60 172.060 Auditory Evoked Electrophysiological Response Component "M100" Is Delayed in 16p11.2 Deletion but Not Duplication Carriers T. P. Roberts[1], J. Jenkins[1], L. Blaskey[1], J. I. Berman[1], S. Nagarajan[2], P. Mukherjee[3], R. L. Buckner[4], J. E. Spiro[5], W. Chung[6] and E. H. Sherr[7], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Univeristy of California San Francisco, San Francisco, CA, (3)UCSF, San Francisco, CA, (4)Harvard University, Cambridge, MA, (5)Simons Foundation, New York, NY, (6)Pediatrics and Medicine, Columbia University Medical Center, New York, NY, (7)University of California, San Francisco, San Francisco, CA

61 172.061 Auditory Stream Segregation in Verbal and Minimally Verbal Adolescents with Autism Spectrum Disorder L. Wang[1], S. Meyer[1], E. Sussman[2], H. Tager-Flusberg[1] and B. Shinn-Cunningham[3], (1)Boston University, Boston, MA, (2)Neuroscience, Albert Einstein College of Medicine, Bronx, NY, (3)Biomedical Engineering, Boston University, Boston, MA

62 172.062 Autonomic Nervous System Function in Response to Social Judgment in Adolescents with and without Autism Spectrum Disorder K. Edmiston, B. Valencia and B. A. Corbett, Vanderbilt University, Nashville, TN

63 172.063 Behavioral, but Not Neural Differences in Face Recognition in Adults and Elderly with Autism P. C. M. Koolschijn[1] and H. M. Geurts[2], (1)Dutch Autism & ADHD Research Center, University of Amsterdam, Amsterdam, NH, Netherlands, (2)Dutch Autism & ADHD Research Center, Brain & Cognition, University of Amsterdam, Amsterdam, Netherlands

64 172.064 Beta-Adrenergic Antagonism Modulates Default Mode Network Coherence in Autism Spectrum Disorder J. P. Hegarty II[1], B. Ferguson[2], R. M. Zamzow[3], L. J. Rohowetz[4], J. D. Johnson[5], S. E. Christ[3] and D. Q. Beversdorf[6], (1)Interdisciplinary Neuroscience Program, University of Missouri, Columbia, MO, (2)Radiology, University of Missouri, Columbia, MO, (3)University of Missouri, Columbia, MO, (4)Department of Psychological Sciences, University of Missouri, Columbia, MO, (5)Psychological Sciences, University of Missouri, Columbia, MO, (6)Radiology, Neurology, Psychological Sciences, University of Missouri, Columbia, MO

65 172.065 Biomarkers for Psychosis Risk Prediction C. E. Bearden, University of California, Los Angeles, Los Angeles, CA

66 172.066 Biomarkers of Outcome with Intervention in Toddlers at Risk for ASD S. S. Jeste[1], A. Gulsrud[1] and C. Kasari[2], (1)UCLA, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA

67 172.067 Brain Chemistry in Adults with Autism Spectrum Disorder N. M. Kleinhans[1], N. M. Corrigan[2], M. A. Reiter[3], T. L. Richards[3] and S. Dager[1], (1)University of Washington, Seattle, WA, (2)Department of Radiology, University of Washington, Seattle, WA, (3)Radiology, University of Washington, Seattle, WA

68 172.068 Brain Connectivity during a High-Level Visual Perceptual Task in Young ASD Children: A MEG Investigation M. Kikuchi[1], L. Mottron[2], N. Takesaki[3], T. Takahashi[1], T. Hirosawa[3], Y. Yoshimura[1], N. Furutani[3], H. Hiraishi[1], C. Hasegawa[1], S. Kitagawa[1] and Y. Minabe[1], (1)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan, (2)Department of Psychiatry, Université de Montréal, Montréal, QC, Canada, (3)Department of Psychiatry and Neurobiology, Kanazawa University, Kanazawa, Japan

69 172.069 Brain and Behavioral Responses to a Flanker Task Differ for Children with Autism Spectrum Disorders S. Faja[1], T. Clarkson[2] and S. J. Webb[3], (1)Boston Children's Hospital/Harvard School of Medicine, Boston, MA, (2)Labs of Cognitive Neuroscience, Boston Children's Hospital, Boston, MA, (3)University of Washington, Seattle, WA

70 172.070 Changes in Functional Brain Network and White Matter Connectivity Underlying Language Comprehension in Children with Autism after a Reading Intervention D. Murdaugh[1], L. Libero[2], J. O. Maximo[1], H. D. Deshpande[3], A. R. Lemelman[4], S. E. O'Kelley[1], C. E. Crider[4] and R. K. Kana[1], (1)Department of Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Department of Psychology, University of Alabama Birmingham, Birmingham, AL, (3)Department of Radiology, University of Alabama at Birmingham, Birmingham, AL, (4)University of Alabama at Birmingham, Birmingham, AL

71 172.071 Conscious and Nonconscious Emotional Processing and Level of Autistic Traits K. K. Stavropoulos[1], M. Viktorinova[2], A. Naples[1] and J. C. McPartland[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Prague Psychiatric Centre, Prague, Czech Republic

72 172.072 Dissociating Neural Response to Gaze Cues in ASD and Schizophrenia Using Simulated Face-to-Face Interaction J. H. Foss-Feig[1], A. Naples[1], E. J. Levy[1], R. Tillman[1], H. S. Reuman[1], K. Law[1], V. Srihari[2], A. Anticevic[2] and J. C. McPartland[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Psychiatry, Yale University, New Haven, CT

73 172.073 Distributed Hypoconnectivity As a Neural Endophenotype of Autism R. L. Moseley[1], R. Ypma[1], R. Holt[2], J. Suckling[1,2], E. Bullmore[3] and M. Rubinov[1], (1)Department of Psychiatry, University of Cambridge, Brain Mapping Unit, Cambridge, United Kingdom, (2)Autism Research Centre, Cambridge University, Cambridge, United Kingdom, (3)Department of Psychiatry, University of Cambridge, Behavioural and Clinical Neurosciences Institution, Cambridge, United Kingdom

74 172.074 Dynamic Systems Imaging in Adolescents with ASD of Lower and Higher Cognitive Ability N. M. Kleinhans[1], T. Madhyastha[2], M. A. Reiter[2], A. M. Estes[3], D. W. Shaw[4], T. J. Grabowski[2] and S. Dager[1], (1)University of Washington, Seattle, WA, (2)Radiology, University of Washington, Seattle, WA, (3)Speech and Hearing Sciences, University of Washington, Seattle, WA, (4)Department of Radiology MA7.220, Seattle Children's Hospital/University of Washington, Seattle, WA

75 172.075 EEG Coherence: A Potential Predictive Neonatal Biomarker for Identification of Autism Risk and Prediction of Severity in 30 Month Olds K. M. Martien[1], J. R. Isler[2], M. Ptak[3], S. B. Golas[3], M. L. Bauman[4] and M. R. Herbert[3,5], (1)Pediatrics, TRANSCEND Mass Gen Hospital/Harvard Medical School, Charleston, MA, (2)Pediatrics, Columbia University College of Physicians & Surgeons, New York, NY, (3)Neurology, Massachusetts General Hospital, Charlestown, MA, (4)Pathology and Neurology, Boston University, Boston, MA, (5)MGH/HST Martinos Center for Biomedical Imaging, Charlestown, MA

76 172.076 EEG Connectivity in Infants at High Risk for Autism E. Orekhova[1], M. Elsabbagh[2], E. Jones[1], G. Dawson[3], T. Charman[4], M. H. Johnson[1] and &. BASIS Team[1], (1)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom, (2)Department of Psychiatry, McGill University, Montreal, QC, Canada, (3)Autism Speaks, UNC Chapel Hill, Chapel Hill, NC, (4)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

77 172.077 Effect of Familiarity on Reward Anticipation in Children with and without Autism Spectrum Disorders K. K. Stavropoulos[1] and L. J. Carver[2], (1)Yale University, New Haven, CT, (2)Psychology, University of California, San Diego, La Jolla, CA

78 172.078 Effective Connectivity of Mirror System Brain Areas in Autism Spectrum Disorder M. Schulte-Rüther[1,2,3], P. Harindranathan[1], A. Pohl[4], G. R. Fink[1,5], B. Herpertz-Dahlmann[2] and K. Konrad[1,2,3], (1)Institute of Neuroscience and Medicine (INM-3), Research Center Jülich, Jülich, Germany, (2)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (3)Translational Brain Medicine, Jülich Aachen Research Alliance - JARA Brain, Aachen, Germany, (4)Department of Psychiatry, Psychosomatics, and Psychotherapy, University Hospital Aachen, Aachen, Germany, (5)Department of Neurology, University Hospital Cologne, Cologne, Germany

79 172.079 Effects of a Novel Behavioral Intervention for Irritability in Autism on Neural Circuitry of Emotion Regulation D. G. Sukhodolsky, S. A. McCauley, P. Ventola, K. Pelphrey and B. C. Vander Wyk, Child Study Center, Yale University, New Haven, CT

80 172.080 Electrophysiological Endophenotypes in Autism: A Family Study A. Clawson[1], M. J. Larson[2] and M. South[1], (1)Brigham Young University, Provo, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT

81 172.081 Emotion Attribution from Dynamic Faces: Bold Differences Pre- and Post- Decision in ASDs L. S. McKay[1], R. S. Brezis[2], T. Wong[3], L. Bidaut[4] and J. Piggot[5], (1)University of Dundee, Dundee, United Kingdom, (2)Interdisciplinary Center, Herzliya, Israel, (3)Department of Radiology, University of Washington, Seattle, WA, (4)Clinical Research Imaging Facility (CRIF), University of Dundee, Dundee, United Kingdom, (5)Psychiatry, University of Dundee, Dundee, United Kingdom

82 172.082 Epigenetic and Neural Correlates of the Broad Autism Phenotype M. H. Puglia, J. P. Morris and J. J. Connelly, Psychology, University of Virginia, Charlottesville, VA

83 172.083 Evaluation of Mismatch Negativity As Biomarker for Language Impairment in Autism Spectrum Disorder H. L. Green, L. Goodwin and K. Froud, Biobehavioral Sciences, Columbia University, New York, NY

84 172.084 Eye Gaze and ERP Correlates of Emotion Processing Across Adults with ASD and Schizophrenia E. J. Levy[1], A. Naples[1], J. H. Foss-Feig[1], R. Tillman[1], H. S. Reuman[1], K. Law[1], H. Samson[2], V. Srihari[3], A. Anticevic[3] and J. C. McPartland[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Yale University, New Haven, CT, (3)Psychiatry, Yale University, New Haven, CT

85 172.085 Eye Movement Abnormalities in Individuals with ASD and Their Unaffected Biological Parents L. M. Schmitt, S. P. White, K. Conroy, J. A. Sweeney and M. W. Mosconi, Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX

86 172.086 Face Processing in Infants Demonstrating Early Signs of ASD A. J. Sanders[1], E. Baker[1], C. DiStefano[2], S. S. Jeste[3], A. Gulsrud[3] and C. Kasari[4], (1)Psychiatry, UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)Center for Autism Research and Treatment, UCLA Semel Institute for Neuroscience, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)UCLA Center for Autism Research & Treatment, Westwood, CA

87 172.087 Face-Selective Activation in Orbitofrontal Cortex Correlates with Social-Motivation in the Broader Autism Phenotype V. Troiani[1] and I. R. Olson[2], (1)Geisinger-Bucknell Autism & Developmental Medicine Institute, Lewisburg, PA, (2)Psychology, Temple University, Philadelphia, PA

88 172.088 Facial Processing in Low-Functioning Individuals with Autism: An N170 Event-Related Potential Study M. Chernenok[1], E. L. Coderre[1], B. Gordon[2] and K. Ledoux[1], (1)Cognitive Neurology/ Neuropsychology, Department of Neurology, Johns Hopkins University, Baltimore, MD, (2)Department of Cognitive Science, Johns Hopkins University, Baltimore, MD

89 172.089 Facial Response to Visual Stimuli: Using Pupil Response As an Indicator for Phenotype in ASD G. T. Lynch[1], N. L. Potter[1] and S. James[2], (1)Speech and Hearing Sciences, Washington State University, Spokane, WA, (2)Criminal Justice, Sleep Research and Performance Center, Washington State University, Spokane, WA

90 172.090 Functional Lateralization of the Cerebral Cortex in 16p11.2 Deletion and Duplication Carriers J. A. Nielsen[1], A. Y. Qureshi[1], P. Mukherjee[2], J. I. Berman[3], T. P. Roberts[3], S. S. Nagarajan[2], J. E. Spiro[4], W. Chung[5], E. H. Sherr[6] and R. L. Buckner[1], (1)Harvard University, Cambridge, MA, (2)UCSF, San Francisco, CA, (3)Children's Hospital of Philadelphia, Philadelphia, PA, (4)Simons Foundation, New York, NY, (5)Pediatrics and Medicine, Columbia University Medical Center, New York, NY, (6)University of California, San Francisco, San Francisco, CA

91 172.091 GABA(A) Receptors in Autism - a Multicenter Positron Emission Tomography Study M. A. Mendez[1], J. Borg[2], J. Horder[3], M. Veronese[4], J. Lundberg[2], J. F. Myers[5], M. Andersson[2], I. Mick[6], Ä. Tangen[7], L. Farde[2], C. Halldin[2], S. Selvaraj[8,9], A. Lingford-Hughes[10], O. Howes[11], D. J. Nutt[10] and D. G. Murphy[12], (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Karolinska Institute, Stockholm, Sweden, (3)De Crespigny Park, Institute of Psychiatry, King's College London, London, England, United Kingdom, (4)Neuroimaging, IoPPN, King's College London, London, United Kingdom, (5)Centre for Neuropsychopharmacology, Imperial College London, London, United Kingdom, (6)Imperial College London, London, United Kingdom, (7)Dept. of Neuroscience, Karolinska Institute, Stockholm, Sweden, (8)Department of Psychiatry and Behavioural Sciences, The University of Texas Health Science Centre, Houston, TX, (9)MRC Clinical Sciences Centre, Institute of Clinical Sciences, London, United Kingdom, (10)Centre for Neuropsychopharmacology, Division of Brain Sciences, Dept of Medicine, Imperial College London, London, United Kingdom, (11)Department of Psychosis Studies, Institute of Psychiatry, King's College London, London, United Kingdom, (12)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

92 172.092 Granger Causality Estimation of Brain Connectivity in Autism Spectrum Disorders C. E. Stevens[1], G. Deshpande[2], Y. Wang[3], H. D. Deshpande[4], C. L. Klein[5], M. R. Klinger[6], L. G. Klinger[7] and R. K. Kana[8], (1)Psychology, University of Alabama Birmingham, Vestavia Hills, AL, (2)Electrical engineering and psychology, Auburn University, Auburn, AL, (3)Auburn University, Auburn, AL, (4)Department of Radiology, University of Alabama at Birmingham, Birmingham, AL, (5)Psychology, Marietta College, OH, Marietta, OH, (6)Allied Health Sciences, University of North Carolina, Chapel Hill, NC, (7)TEACCH Autism Program; Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (8)Department of Psychology, University of Alabama at Birmingham, Birmingham, AL

93 172.093 Hemispheric Differences in Language Processing in Autism Spectrum Disorders: A Meta-Analysis of Neuroimaging Studies A. J. Herringshaw, C. J. Ammons, T. DeRamus and R. K. Kana, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL

94 172.094 How Do Children with and without Autism Perceive the Passage of Time?: fMRI Reveals Differences in Neural Systems Recruited for Time Perception M. J. Allman[1], F. P. Loomis[1], W. H. Meck[2] and M. B. Denckla[3], (1)Michigan State University, East Lansing, MI, (2)Duke University, Durham, NC, (3)Kennedy Krieger Institute/JHUSOM, Baltimore, MD

95 172.095 Investigating the Neural Mechanisms Underpinning Theory of Mind Processes in ASD Using a Reinforcement Learning Framework J. H. Balsters[1], M. A. Apps[2,3], R. Lehner[1], D. Bolis[1], L. Gallagher[4] and N. Wenderoth[1], (1)Department of Health Sciences and Technology, ETH Zürich, Zürich, Switzerland, (2)Nuffield Department of Clinical Neuroscience, University of Oxford, Oxford, United Kingdom, (3)Department of Experimental Psychology, University of Oxford, Oxford, United Kingdom, (4)St. James's Hospital, Trinity College Dublin, Dublin, Ireland

96 172.096 Local Brain Connectivity Across the Lifespan in Autism Spectrum Disorder and Typical Development D. R. Dajani and L. Q. Uddin, University of Miami, Coral Gables, FL

97 172.097 Longitudinal Changes in M100 Latency in Children with ASD and Neurotypical Controls R. G. Port[1], J. Jenkins[2], J. C. Edgar[2] and T. P. Roberts[2], (1)Neuroscience Graduate Group, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA

98 172.098 MMN and Glutamatergic E-I Imbalance in Children and Adults with ASD and Phelan-Mcdermid Syndrome **A. San Jose Caceres**[1], L. Mason[2], D. Crawley[3], J. E. Faulkner[4], H. L. Hayward[5], J. Sabet[6], B. Oranje[7], J. K. Buitelaar[8], D. G. Murphy[9] and E. Loth[10], (1)Department of Forensic and Neurodevelopmental Sciences, King's College London, London, United Kingdom, (2)Birkbeck College, University of London, London, United Kingdom, (3)Forensics and Neurodevelopmental Sciences, King's College London, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)Institute of Psychiatry, King's College London, London, England, United Kingdom, (6)Forensics and Neurodevelopmental Sciences, King's College London, london, United Kingdom, (7)Psychiatry, UMC Utrecht Brain Center Rudolf Magnus, Utrecht, Netherlands, (8)Cognitive Neuroscience, Radboudumc, Donders Institute, Nijmegen University, Nijmegen, Netherlands, (9)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (10)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

99 172.099 Measures of Signal Complexity in Resting-State EEG Recordings from Young Children with ASD **J. Frohlich**[1], A. Irimia[2] and S. S. Jeste[3], (1)University of California, Los Angeles, Los Angeles, CA, (2)Institute for Neuroimaging and Informatics, University of Southern California, Los Angeles, CA, (3)Psychiatry and Neurology, UCLA, Los Angeles, CA

100 172.100 Mirror Neuron System Response to Action Simulation in Children with Autism **H. M. Wadsworth**[1], H. D. Deshpande[2] and R. K. Kana[1], (1)Department of Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Department of Radiology, University of Alabama at Birmingham, Birmingham, AL

101 172.101 Modulation of Simon Interference Inhibition Processing By Serotonin in Autism: A Pharmacologic Functional MRI Study with Acute Tryptophan Depletion **E. Daly**[1], C. Ecker[2] and D. G. Murphy[3], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

102 172.102 Neural Response to Biological Motion in Males and Females with ASD **A. Naples**[1], J. C. McPartland[2], K. Pelphrey[2] and S. J. Webb[3], (1)Yale University, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)University of Washington, Seattle, WA

103 172.103 Neural Response to Interactive Faces Is Associated with Clinical Characteristics in ASD and Typical Development **K. Law**[1], A. Naples[1], E. Levy[1], H. S. Reuman[1], R. Tillman[2], Z. Williams[1], D. Czemerinski[1] and J. C. McPartland[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Clinical Psychology, University of Maryland, College Park, MD

104 172.104 Neural Sensitivity to Live Social Interaction Captures Developmental Variability in ASD Traits **K. Rice** and E. Redcay, University of Maryland, College Park, MD

105 172.105 Neural Signatures of Discrepant Nonverbal and Verbal IQ in Youth with ASD **C. M. Keifer**, D. Yang, P. Ventola, J. Wolf and K. Pelphrey, Child Study Center, Yale University, New Haven, CT

106 172.106 Neural, Behavioral and Parent-Reported Indices of Executive Attention in Younger Siblings of Children with Autism **C. A. Burrows**[1], L. Mohapatra[2], L. V. Usher[1], D. N. Gangi[3], D. S. Messinger[3] and H. A. Henderson[4], (1)Psychology, University of Miami, Coral Gables, FL, (2)Neuropsychology, Kennedy Krieger Institute, Baltimore, MD, (3)University of Miami, Coral Gables, FL, (4)University of Waterloo, Waterloo, ON, Canada

107 172.107 Neurochemical and Neuroanatomical Changes in Children, Adolescents and Adults with Autism Spectrum Disorder **A. C. Pereira**[1], I. R. Violante[2], S. Mouga[1,3], G. G. Oliveira[1,3,4,5] and M. Castelo-Branco[1,6], (1)Institute for Biomedical Imaging and Life Sciences, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (2)Medicine, Imperial College London, London, England, (3)Unidade de Neurodesenvolvimento e Autismo do Serviço do Centro de Desenvolvimento da Criança, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (4)University Clinic of Pediatrics, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (5)Centro de Investigação e Formação Clínica, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (6)ICNAS Produção, Coimbra, Portugal

108 172.108 Neurophysiological Markers of ASD in Tuberous Sclerosis Complex **K. J. Varcin**[1], S. S. Jeste[2] and C. A. Nelson[3], (1)Developmental Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA, (2)UCLA, Los Angeles, CA, (3)Education, Harvard Univesity, Cambridge, MA

109 172.109 Plasticity of Brain Networks for Social Cognition in Adults with ASD **D. Yang**[1], T. Allen[2], S. B. Chapman[2], F. R. Volkmar[1], B. C. Vander Wyk[1] and K. Pelphrey[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Center for BrainHealth, University of Texas, Dallas, TX

110 172.110 Prefrontal Neurofeedback Training Approaches in Children with Autism Based on the Relative Power of EEG Rhythms Analysis **Y. WANG**[1,2], E. M. Sokhadze[2], L. L. Sears[3], A. El-Baz[4], A. Tasman[2] and M. F. Casanova[2], (1)State Key Laboratory of Cognitive Neuroscience and Learning,Beijing Normal University, BEIJING, China, (2)Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY, (3)Department of Pediatrics, University of Louisville, Louisville, KY, (4)Department of Bioengineering, University of Louisville, Louisville, KY

111 172.111 Preserved Configural Processing in High-Functioning Adults with Autism: An EEG/ERP Study **M. Castelo-Branco**[1,2], G. G. Oliveira[3], S. Mouga[4] and P. Tavares[2], (1)ICNAS Produção, Coimbra, Portugal, (2)Visual Neuroscience Laboratory, Institute of Biomedical Research on Light and Image (IBILI), Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (3)Unidade de Neurodesenvolvimento e Autismo do Serviço do Centro de Desenvolvimento da Criança, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (4)Institute for Biomedical Imaging and Life Sciences, Faculty of Medicine, University of Coimbra, Coimbra, Portugal

112 172.112 Reciprocal Alterations of White Matter Microstructure in Carriers of Deletions Versus Duplications at the 16p11.2 Chromosomal Locus Are Associated with Cognitive and Behavioral Impairments **Y. Chang**[1], J. Owen[1], T. Thieu[2], N. Pojman[3], P. Bukshpun[4], M. Wakahiro[4], E. Marco[5], J. I. Berman[6], J. E. Spiro[7], W. Chung[8], R. L. Buckner[9], T. P. Roberts[6], S. Nagarajan[10], E. H. Sherr[5] and P. Mukherjee[4], (1)Radiology, UCSF, San Francisco, CA, (2)Neurology, UCSF, San Francisco, CA, (3)Neurology, Radiology, UCSF, San Francisco, CA, (4)UCSF, San Francisco, CA, (5)University of California, San Francisco, San Francisco, CA, (6)Children's Hospital of Philadelphia, Philadelphia, PA, (7)Simons Foundation, New York, NY, (8)Pediatrics, Columbia University, New York, NY, (9)Harvard University, Cambridge, MA, (10)Univeristy of California San Francisco, San Francisco, CA

113 172.113 Reduced Prefrontal Cortical Responses and Atypical Connectivity to Join Attention in Children with Autism Spectrum Disorder (ASD): A Functional Near-Infrared Spectroscopy Study **H. Zhu**[1], J. Li[2], Y. Fan[3], X. Li[4], D. Huang[5] and S. He[6], (1)Panyu District, Centre for Optical & Electromagnetic Research, School of Psychology, South China Normal University, Guangzhou, China, (2)Centre for Optical and Electromagnetic Research, ZJU-SCNU Joint Research Center of Photonics, South China Normal University (SCNU), Guangzhou, 510006, P. R. China, Guangzhou, China, (3)Guangzhou Cana School, Guangzhou, Guangdong Province, China, (4)School of Psychology, Guangzhou, China, (5)Guangzhou Cana School, Guangzhou, China, (6)School of Electrical Engineering, Royal Institute of Technology (KTH), Stockholm, Sweden

114 172.114 Refining EEG Biomarkers in ADHD for Diagnosis and Treatment Response Monitoring S. Loo, Psychiatry and Biobehavioral Sciences, UCLA David Geffen School of Medicine, Los Angeles, CA

115 172.115 Relationship Between Neural Coherence and Social Functioning in Autism Spectrum Disorder T. M. Andersen[1], C. Swick[1], A. M. Flores[1], K. Lengu[1], R. Goodcase[1], K. McFarlane[1], S. M. Bowyer[2] and R. Lajiness-O'Neill[1], (1)Psychology, Eastern Michigan University, Ypsilanti, MI, (2)Neurology, Henry Ford Hospital, Detroit, MI

116 172.116 Replicable Network-Based Diagnostic Classification of ASD in the Autism Brain Imaging Data Exchange J. A. Richey[1], M. Ghane[2], M. Coffman[2], A. Valdespino[2] and P. Du[3], (1)Virginia Tech, Blackbsurg, VA, (2)Psychology, Virginia Tech, Blacksburg, VA, (3)Statistics, Virginia Tech, Blacksburg, VA

117 172.117 Resting State Functional Connectivity of Social Brain Regions in Autism Spectrum Disorder: Correlate with Social Symptom Severity in ASD M. Jung[1,2], D. N. Saito[1,3,4], A. Sasaki[5], T. Munesue[1,6], H. Okazawa[1,4] and H. Kosaka[3,7,8], (1)Department of Child Development, United Graduate School of Child Development, Osaka University, Kanazawa University, Hamamatsu University School of Medicine, Chiba University and University of Fukui, Osaka, Japan, (2)The Japan Society for the Promotion of Science, Tokyo, Japan, (3)Research Center for Child Mental Development, University of Fukui, Eiheiji, Japan, (4)Biomedical Imaging Research Center, University of Fukui, Eiheiji, Japan, (5)RIKEN Center for Life Science Technologies, Kobe, Japan, (6)Kanazawa University, Kanazawa, Japan, (7)Research Center for Child Mental Development, University of Fukui, Yoshida-gun, Fukui Prefecture, Japan, (8)Department of Neuropsychiatry, Faculty of Medical Sciences, University of Fukui, Eiheiji, Japan

118 172.118 Sensory Processing Abnormalities, ASD Features, and Modulation of Auditory Evoked Potentials in Fragile X Syndrome L. E. Ethridge[1], S. P. White[2], M. W. Mosconi[2], J. Wang[3], M. J. Byerly[4] and J. A. Sweeney[2], (1)Dept of Psychology, University of Oklahoma, Norman, OK, (2)Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX, (3)Psychiatry, UT Southwestern Medical Center, Dallas, TX, (4)Psychiatry, Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX

119 172.119 Sensory over-Responsivity and Amygdala Response to Emotional Faces in Youth with and without ASD K. Krasileva[1,2], R. McCarron[2,3], S. A. Green[2,3], S. Y. Bookheimer[3,4] and M. Dapretto[2,3], (1)Department of Neurology, UCLA, Los Angeles, CA, (2)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA, (3)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (4)Center for Cognitive Neuroscience, UCLA, Los Angeles, CA

120 172.120 Sex Differences in Autism: A Resting-State fMRI Investigation of the Intrinsic Neural Circuitry in Males and Females K. Alaerts[1] and N. Wenderoth[2], (1)KU Leuven - University of Leuven, Leuven, Belgium, (2)Department of Health Sciences and Technology, ETH Zürich, Zürich, Switzerland

121 172.121 Sex Differences in Biological Motion Perception Among Youth with ASD: An fMRI Investigation A. Jack[1], C. M. Keifer[1], D. Gulliford[2], C. Torgerson[3], E. H. Aylward[2], S. Y. Bookheimer[4], M. Dapretto[5], N. Gaab[6], J. Van Horn[3] and K. Pelphrey[1], (1)Child Study Center, Yale University, New Haven, CT, (2)Seattle Children's Research Institute, Seattle, WA, (3)University of Southern California, Los Angeles, CA, (4)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (5)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA, (6)Dept. of Medicine, Division of Developmental Medicine, Harvard University, Boston, MA

122 172.122 Specificity of Atypical Neural Development for Language in Infants at Risk for ASD J. F. Yang[1], H. S. Reuman[2], E. D. Brooks[1], P. Hashim[1], R. Travieso[1], E. J. Levy[2], K. Law[2], L. Mayes[2], J. A. Persing[3] and J. C. McPartland[2], (1)Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Section of Plastic and Reconstructive Surgery, Yale University School of Medicine, New Haven, CT

123 172.123 Transient Visual Evoked Potentials in Monogenic and Idiopathic ASD P. M. Weinger[1], S. M. Lurie[1], A. Kolevzon[1], V. Zemon[2], J. Gordon[3], J. M. Jamison[1], J. Zweifach[1], L. V. Soorya[4] and J. D. Buxbaum[1], (1)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, (3)Psychology, Hunter College, New York, NY, (4)Psychiatry, Rush University Medical Center, Chicago, IL

124 172.124 What Do We Currently Know about Resting State EEG Biomarkers in Autism Spectrum Disorder? T. M. Heunis[1], C. Scheffer[1], C. Aldrich[2] and P. J. de Vries[3], (1)Mechanical and Mechatronic Engineering, Stellenbosch University, Stellenbosch, South Africa, (2)Department of Mining and Metallurgical Engineering, Curtin University of Technology, Perth, Australia, (3)Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

125 172.125 Young Adults with ASD Have a Higher Rate of Epileptiform Eegs Than Young Children in a Clinical Sample D. U. Menon[1] and J. B. Ewen[2], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD

Poster Session
173 - Epidemiology
11:30 AM - 1:30 PM - Imperial Ballroom

126 ▸ 173.126 A Large-Scale Analyses of ASD Cases Using Electronic Medical Records N. Connolly[1], K. W. Burkett[2] and K. A. Bowers[3], (1)Biomedical Informatics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)Division of Biostatistics and Epidemiology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

127 173.127 A Prospective Birth Cohort Study on the Independent and Joint Effect of Maternal Preconception Obesity/Diabetes, and Gestational Diabetes in the Development of ASD, ID and Other DD M. Li[1], M. D. Fallin[1,2], A. W. Riley[1], R. J. Landa[3,4], D. Caruso[1], C. Pearson[5], S. Kiang[5] and X. Wang[1,2], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD, (3)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (4)Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, (5)The Boston University Medical Center, Boston, MA

128 173.128 Assisted Conception and Risk of Autism Spectrum Disorders in a Large Commercially Insured Population A. Wallace[1,2], B. Lee[3], L. Tabb[1], M. Yudell[4], R. Turchi[4] and C. J. Newschaffer[5], (1)Epidemiology and Biostatistics, Drexel University School of Public Health, Philadelphia, PA, (2)Government and Academic Research, HealthCore, Inc, Wilmington, DE, (3)Drexel University School of Public Health, Philadelphia, PA, (4)Community Health and Prevention, Drexel University School of Public Health, Philadelphia, PA, (5)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA

129 173.129 Association of Induced and/or Augmented Labor with Autism Spectrum Disorder in a Gestational Age-Stratified Utah Cohort E. Clark[1], D. A. Bilder[2], M. Varner[1], S. Esplin[3], H. Coon[2] and A. V. Bakian[2], (1)Obstetrics and Gynecology, University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT, (3)Intermountain Healthcare, Salt Lake City, UT

130 173.130 Autism Risk in Children Born to Women with Perinatal Psychiatric Diagnoses B. M. Wieckowski[1], Y. Mukhtar[2], J. J. Lee[1], G. Xing[3] and C. Walker[4,5], (1)Psychology, University of California, Davis, Davis, CA, (2)Public Health Sciences, University of California, Davis, Davis, CA, (3)Center for Health Care Policy and Research, University of California, Davis, Sacramento, CA, (4)Obstetrics & Gynecology, University of California - Davis, Sacramento, CA, (5)MIND Institute, University of California - Davis, Sacramento, CA

131 ▸ 173.131 The Development of Chinese Norms for the Autism Spectrum Rating Scale W. Yan[1], L. Zhang[1], H. Zhou[1], Y. Wang[1], X. Xu[1], X. Zou[2], L. Wu[3], X. Luo[4] and E. J. Fombonne[5], (1)Children's Hospital of Fudan University, Shanghai, China, (2)Pediatrics, Child Developmental & Behavioral Center, The 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, MD, (3)Department of Children's and Adolescent Health, Public Health, Harbin Medical University, Harbin, China, (4)Central South University, Changsha, China, (5)Oregon Health & Science University, Portland, OR

132 ▸ 173.132 Autism Spectrum Screening Questionnaire (ASSQ) in a School-Aged Population in Korea G. Yim[1], B. Leventhal[1], Y. J. Koh[2], M. M. Desai[3], V. Hus Bal[1], P. S. Hong[1] and Y. S. Kim[1], (1)Dept of Psychiatry, University of California San Francisco, San Francisco, CA, (2)Korea Institute for Children's Social Development, Seoul, South Korea, (3)Yale University, School of Public Health, New Haven, CT

133 173.133 Autism-Specific Maternal Autoantibodies Associated with Metabolic Conditions P. Krakowiak[1,2], C. Walker[2,3], I. Hertz-Picciotto[1,2] and J. Van de Water[2,4], (1)Public Health Sciences, University of California - Davis, Davis, CA, (2)MIND Institute, University of California - Davis, Sacramento, CA, (3)Obstetrics & Gynecology, University of California - Davis, Sacramento, CA, (4)Division of Rheumatology/Allergy and Clinical Immunology, University of California - Davis, Davis, CA

134 173.134 Autisme and Crime: Is Prevention Possible? A. van der Reijken[1] and I. A. van Berckelaer-Onnes[2], (1)NIFP, The Netherlands, Sassenheim, Netherlands, (2)Social and behavioral sciences, Leiden University, Leiden, Netherlands

135 173.135 Changes in Age of First Diagnosis of Autism Spectrum Disorder in Children Born Between 1992 and 2000 A. Boan[1], C. C. Bradley[1], K. Fender[2], A. P. Cohen[1], J. Charles[1], W. Jenner[1] and L. A. Carpenter[1], (1)Pediatrics, Medical University of South Carolina, Charleston, SC, (2)Medical University of South Carolina, Charleston, SC

136 173.136 Differential Gene Expression in Children with Autism Born to Mothers with Obesity and Diabetes Y. Mukhtar[1], C. Walker[2], B. Durbin-Johnson[1], P. Krakowiak[3] and I. Hertz-Picciotto[3], (1)Public Health Sciences, University of California, Davis, Davis, CA, (2)University of California - Davis, Sacramento, CA, (3)Public Health Sciences, University of California - Davis, Davis, CA

137 173.137 Differentiating the Role of Autism Spectrum Disorder and Intellectual Disability in Challenging Behaviors M. Kurzius-Spencer, Department of Pediatrics, College of Medicine, University of Arizona, Tucson, AZ

138 173.138 Digit Ratio and Autism Spectrum Disorders: Results from the Avon Longitudinal Study of Parents and Children (ALSPAC) Birth Cohort A. L. Guyatt[1], J. Heron[1], B. Knight[1], J. Golding[1] and D. Rai[2], (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)Avon and Wiltshire Partnership NHS Mental Health Trust, Bristol, United Kingdom

139 173.139 Examining Factors Associated with Trajectories of Daily Living Skills in Preschool Children with ASD in Canada B. M. Di Rezze[1], E. K. Duku[2], P. Szatmari[3], S. Georgiades[2], J. Volden[4], P. Mirenda[5], I. M. Smith[6], S. E. Bryson[7], E. J. Fombonne[8], W. Roberts[9], T. Vaillancourt[10], C. Waddell[11], L. Zwaigenbaum[12], T. A. Bennett[2] and M. Elsabbagh[13], (1)McMaster University, Hamilton, ON, Canada, (2)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)Communication Sciences and Disorders, University of Alberta, Edmonton, AB, Canada, (5)University of British Columbia, Vancouver, BC, Canada, (6)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (7)Autism Research Centre, Dalhousie/ IWK Health Centre, Halifax, NS, Canada, (8)Psychiatry, Institute on Development and Disability, Oregon Health & Science University, Portland, OR, (9)ISAND, Toronto, ON, Canada, (10)University of Ottawa, Ottawa, ON, Canada, (11)Faculty of Health Sciences, Simon Fraser University, Vancouver, BC, Canada, (12)University of Alberta, Edmonton, AB, Canada, (13)McGill University, Montreal, PQ, Canada

140 ▸ 173.140 Exploratory and Confirmatory Factor Analyses of the Chinese Version Autism Spectrum Rating Scales H. Zhou[1], L. Zhang[1], L. Wu[2], X. Zou[3], X. Luo[4], W. Yan[1], Y. Wang[1] and E. J. Fombonne[5], (1)Children's Hospital of Fudan University, Shanghai, China, (2)Department of Children's and Adolescent Health, Public Health, Harbin Medical University, Harbin, China, (3)Pediatrics, Child Developmental & Behavioral Center, The 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, MD, (4)Central South University, Changsha, China, (5)Oregon Health & Science University, Portland, OR

141 173.141 Gene Expression By Pesticide Exposures During Gestation in the Charge Study, a Case-Control Investigation of Autism Spectrum Disorder I. Hertz-Picciotto[1], B. Durbin-Johnson[1], L. Delwiche[1] and S. Letovsky[2], (1)Public Health Sciences, University of California, Davis, Davis, CA, (2)Boston University, Boston, MA

142 173.142 Interaction Between Maternal 5-HTT Genotype and Prenatal Stress Exposure, Confirmation in Two Independent Samples P. Hecht[1], X. Liu[2], M. Tilley[3], M. L. Hudson[4], S. L. Connors[5] and D. Q. Beversdorf[6], (1)University of Missouri- Columbia, Columbia, MO, (2)Psychiatry, Queen's University, Kingston, ON, Canada, (3)Central Methodist University, Fayette, MO, (4)Psychiatry, Queen's University, Kingston, ON, Canada, (5)Pediatrics and Medicine, MGH Lurie Center for Autism, Lexington, MA, (6)Radiology, Neurology, Psychological Sciences, University of Missouri, Columbia, MO

143 173.143 Laying the Foundation for Policy: Measuring Local Prevalence for Autism Spectrum Disorder L. Ghali[1], C. Dudley[2], D. J. Dutton[3], J. Zwicker[3], C. A. McMorris[4], D. B. Nicholas[5], M. Clarke[6] and H. Emery[7], (1)Sinneave Family Foundation, Calgary, AB, Canada, (2)School of Public Policy, Calgary, AB, Canada, (3)The School of Public Policy, Calgary, AB, Canada, (4)York University, Toronto, ON, Canada, (5)University of Calgary, Edmonton, AB, Canada, (6)Pediatrics, University of Calgary, Calgary, AB, Canada, (7)University of Calgary, Calgary, AB, Canada

144 173.144 Maternal Use of Prenatal Nutritional Supplements and Risk of Autism in the Stockholm Youth Cohort E. DeVilbiss[1], C. Magnusson[2] and B. Lee[1,3], (1)Drexel University School of Public Health, Philadelphia, PA, (2)Karolinska Institutet, Stockholm, Sweden, (3)A.J. Drexel Autism Institute, Philadelphia, PA

145 173.145 Meconium Exposure, but Not Meconium Aspiration Syndrome, Is Associated with Autism K. Miller[1], G. Xing[2] and C. Walker[3], (1)University of California, Davis, Sacramento, CA, (2)Center for Health Care Policy and Research, University of California, Davis, Sacramento, CA, (3)Obstetrics & Gynecology, University of California - Davis, Sacramento, CA

146 173.146 Medical Home and Insurance Adequacy Among Children with Autism Spectrum Disorder and Psychiatric Conditions B. Zablotsky and S. J. Blumberg, National Center for Health Statistics, Hyattsville, MD

147 173.147 Mid-Pregnancy Glucose Intolerance, Gestational Metabolic Conditions and Autism Spectrum Disorder and Developmental Delay C. Walker[1], P. Krakowiak[2], Y. Mukhtar[3], D. J. Tancredi[4], L. Delwiche[3] and I. Hertz-Picciotto[3], (1)Obstetrics & Gynecology, University of California - Davis, Sacramento, CA, (2)MIND Institute, University of California - Davis, Sacramento, CA, (3)Public Health Sciences, University of California, Davis, Davis, CA, (4)Pediatrics, University of California Davis, Sacramento, CA

148 173.148 Of Decrements and Disorders: Assessing Quantitative Traits Related to Autism Spectrum Disorders in Prospective Epidemiologic Studies of Environmental Toxicant Exposures S. K. Sagiv[1,2], A. E. Kalkbrenner[3] and D. C. Bellinger[4,5], (1)Epidemiology, University of California, Berkeley School of Public Health, Berkeley, CA, (2)Environmental Health, Boston University School of Public Health, Boston, MA, (3)Zilber School of Public Health, University of Wisconsin-Milwaukee, Milwaukee, WI, (4)Neuorology, Children's Hospital Boston, Boston, MA, (5)Environmental Health, Harvard School of Public Health, Boston, MA

149 173.149 Parental Exposure to Occupational Asthmagens and Risk of Autism Spectrum Disorders in a Danish Population-Based Case-Control Study A. B. Singer[1], I. Burstyn[2], M. D. Fallin[1,3] and D. E. Schendel[4], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Drexel University School of Public Health, Philadelphia, PA, (3)Johns Hopkins School of Medicine, Baltimore, MD, (4)Department of Public Health, Section of Epidemiology, Aarhus University, Aarhus, Denmark

150 173.150 Patterns and Characteristics of Adult Autism Spectrum Disorders (ASD) Related Hospitalizations: A 10 Year Nationwide Trend Analysis R. Vohra[1], M. Ajmera[2], S. Madhavan[1] and U. Sambamoorthi[1], (1)Pharmaceutical Systems and Policy, School of Pharmacy, West Virginia University, Morgantown, WV, (2)RTI Health Solutions, Research Triangle Park, NC

151 173.151 Prenatal PBDE Exposure and Early ASD-Related Phenotype in a Risk-Enriched Pregnancy Cohort N. L. Lee[1], D. H. Bennett[2], I. Burstyn[3], E. Schriver[3], J. Pandey[4], L. A. Croen[5], M. D. Fallin[6], I. Hertz-Picciotto[7] and C. J. Newschaffer[1], (1)Drexel University School of Public Health, Philadelphia, PA, (2)Public Health Sciences, UC Davis, Davis, CA, (3)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (4)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (6)Mental Health & Wendy Klag Center for Autism and Developmental Disabilities, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7)Public Health Sciences, University of California, Davis, Davis, CA

152 ▸ 173.152 Prevalence of Autism Spectrum Conditions in Mainland China: Pilot and a Whole Population Study X. Sun[1,2,3], C. Allison[4], B. Auyeung[5], S. Baron-Cohen[5] and C. Brayne[1], (1)Cambridge Institute of Public Health, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychiatry, Autism Research Centre, Cambridge, United Kingdom, (3)The Chinese University of Hong Kong, Hong Kong, Hong Kong, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (5)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

153 173.153 Prevalence of Regressive Autism from 2000 to 2010: Findings from a Population-Based System J. Shenouda[1], M. Rajan[2], K. Oldewurtel[3] and W. Zahorodny[4], (1)Rutgers New Jersey Medical School, Newark, NJ, (2)Department of Preventive Medicine and Community Health, Rutgers New Jersey Medical School, Newark, NJ, (3)Pediatrics, Rutgers - New Jersey Medical School, Newark, NJ, (4)Pediatrics, Rutgers New Jersey Medical School, Newark, NJ

154 173.154 Rates and Predictors of Psychotropic Medication Use in Children with Autism Spectrum Disorder Ages 2-18 Years Old in a National Population-Based Sample: 1994-2009 K. I. Kamimura-Nishimura, R. E. Adams, P. M. Manning-Courtney and T. Froehlich, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

155 173.155 Reliability and Validity of a Short Dietary Intake Questionnaire for Retrospective Collection of Nutrients during Gestation in Autism Studies R. J. Schmidt[1], A. M. Widaman[2], D. E. Deines[3] and D. J. Tancredi[4], (1)Public Health Sciences, MIND Institute, University of California at Davis, Davis, CA, (2)University of California Davis, Davis, CA, (3)Office of Research and Methodology, Centers for Disease Control and Prevention, National Center for Health Statistics, Hyattsville, MD, (4)Pediatrics, University of California Davis, Sacramento, CA

156 173.156 Risk Factors for Autism Spectrum Disorder and Intellectual Disability R. Gott[1], S. Nibras[2], S. Grover[3], A. Mehanovic[4] and H. Matsuo[5], (1)Saint Louis University, Clayton, MO, (2)Pediatrics, Saint Louis University School of Medicine, St.Louis, MO, (3)Saint Louis University, Saint Louis, MO, (4)Pediatrics, Saint Louis University, St.Louis, MO, (5)Saint Louis University, St. Louis, MO

157 173.157 Risks of Non-Affective Psychotic Disorder and Bipolar Disorder in Young People Diagnosed with Autism Spectrum Disorder, a Population-Based Study J. P. Selten[1,2], M. Lundberg[3], D. Rai[4] and C. Magnusson[5], (1)Psychiatry and psychology, University of Maastricht, the Netherlands., Amsterdam, Netherlands, (2)Rivierduinen, Leiden, Netherlands, (3)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (4)Avon and Wiltshire Partnership NHS Mental Health Trust, Bristol, United Kingdom, (5)Karolinska Institutet, Stockholm, Sweden

158 ▸ 173.158 Sensory Processing Abnormalities of Children with Autism Spectrum Disorder M. Donnelly[1], K. Sidwell[1], J. Shenouda[2] and W. Zahorodny[3], (1)Pediatrics, Rutgers University, Newark, NJ, (2)Rutgers New Jersey Medical School, Newark, NJ, (3)Pediatrics, Rutgers New Jersey Medical School, Newark, NJ

159 173.159 Short and Long Inter-Pregnancy Interval Increases Risk of Autism Spectrum Disorders O. Zerbo, C. K. Yoshida, E. P. Gunderson and L. A. Croen, Division of Research, Kaiser Permanente Northern California, Oakland, CA

160 ▸ 173.160 Synergic Effect of GSTP1 and Blood Manganese Concentrations in Autism Spectrum Disorder M. H. Rahbar[1,2], M. Samms-Vaughan[3], J. Ma[4], J. Bressler[4], A. S. Dickerson[5], M. Ardjomand-Hessabi[5], K. A. Loveland[6], M. L. Grove[4], S. Shakespeare-Pellington[3], C. Beecher[7], W. McLaughlin[8] and E. Boerwinkle[2,4], (1)Division of Clinical and Translational Sciences, Department of Internal Medicine, University of Texas Medical School at Houston, Houston, TX, (2)Division of Epidemiology, Human Genetics, and Environmental Sciences (EHGES), University of Texas School of Public Health at Houston, Houston, TX, (3)Department of Child & Adolescent Health, The University of the West Indies, Mona Campus, Kingston, Jamaica, (4)Human Genetics Center, University of Texas School of Public Health at Houston, Houston, TX, (5)Biostatistics, Epidemiology, Research Design (BERD) Core, Center for Clinical and Translational Sciences (CCTS), University of Texas Health Science Center at Houston, Houston, TX, (6)Department of Psychiatry and Behavioral Sciences, University of Texas Medical School at Houston, Houston, TX, (7)Department of Basic Medical Sciences, The University of the West Indies, Mona Campus, Kingston, Jamaica, (8)Caribbean Genetics (CARIGEN), The University of the West Indies, Mona Campus, Kingston, Jamaica

161 173.161 Autism Spectrum Disorder Prevalence and Proximity to Industrial Facilities Releasing Arsenic, Lead, or Mercury A. S. Dickerson[1], M. H. Rahbar[2], I. Han[3], D. A. Pearson[4], L. A. Moye[5], A. Bakian[6], D. A. Bilder[7], R. A. Harrington[8], S. Pettygrove[9], M. S. Durkin[10], R. S. Kirby[11], M. Slay Wingate[12], L. H. Tian[13], W. Zahorodny[14] and J. Baio[13], (1)Biostatistics, Epidemiology, Research Design (BERD) Core, Center for Clinical and Translational Sciences (CCTS), University of Texas Health Science Center at Houston, Houston, TX, (2)Division of Clinical and Translational Sciences, Department of Internal Medicine, University of Texas Medical School at Houston, Houston, TX, (3)Epidemiology and Disease Control, University of Texas Health Science Center at Houston, Houston, TX, (4)University of Texas Medical School, Houston, Houston, TX, (5)Biostatistics, University of Texas Health Science Center at Houston, Houston, TX, (6)Psychiatry, University of Utah School of Medicine, Salt Lake City, UT, (7)Psychiatry, University of Utah, Salt Lake City, UT, (8)Epidemiology, Johns Hopkins University, Baltimore, MD, (9)Epidemiology and Biostatistics, University of Arizona, Tucson, AZ, (10)Population Health Sciences, University of Wisconsin-Madison, Madison, WI, (11)Community and Family Health, University of South Florida, Tampa, FL, (12)Healthcare Organization and Policy, University of Alabama at Birmingham, Birmingham, AL, (13)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (14)Pediatrics, Rutgers New Jersey Medical School, Newark, NJ

162 173.162 The Medical Home and Healthcare Transition in Youth with Autism J. Rast[1], C. J. Newschaffer[2], R. Turchi[3,4], J. Plumb[2] and P. T. Shattuck[5], (1)Drexel University, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (3)St. Christopher's Hospital for Children, Philadelphia, PA, (4)School of Public Health, Drexel University, Philadelphia, PA, (5)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

163 173.163 Three-Generation Family-Wide Morbidity Patterns in Autism Spectrum Disorder: A Danish Population-Based Cohort Study D. E. Schendel[1], M. Overgaard[2] and E. T. Parner[3], (1)Department of Public Health, Section of Epidemiology, Aarhus University, Aarhus, Denmark, (2)Department of Public Health, Section of Biostatistics, Aarhus University, Aarhus, Denmark, (3)Department of Public Health, Section of Biostatistics, Aarhus University, Århus, Denmark

164 173.164 Use of Medicare Claims As a Source for Research Prevalence and Utilization of Medical Care Services in Persons with Autism Spectrum Disorder over and Under Age 65 H. J. Carretta[1], K. Graves[2] and T. Benevides[3], (1)1155 West Call Street Suite 3200-C, Florida State University College of Medicine, Tallahassee, FL, (2)Sociology, Florida State University, Tallahassee, FL, (3)Department of Occupational Therapy, Thomas Jefferson University, Philadelphia, PA

165 ▸ 173.165 Utility of Documented Special Education Exceptionality Categories for ASD Prevalence Estimation Among Children Identified with ASD in the ADDM Network E. Rubenstein[1], C. E. Rice[2], G. Yenokyan[3], L. Schieve[4], D. Christensen[5], M. S. Durkin[6], A. Bakian[7], R. S. Kirby[8], J. Daniels[9], S. A. Rosenberg[10], J. Preskitt[11] and L. C. Lee[12], (1)Epidemiology, UNC Gillings School of Public Health, Carrboro, NC, (2)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (3)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Centers for Disease Control and Prevention, Atlanta, GA, (5)Division of Birth Defects and Developmental Disabilities, CDC, Atlanta, GA, (6)Population Health Sciences, University of Wisconsin-Madison, Madison, WI, (7)Psychiatry, University of Utah School of Medicine, Salt Lake City, UT, (8)Community and Family Health, University of South Florida, Tampa, FL, (9)UNC Gillings School of Public Health, Chapel Hill, NC, (10)Department of Psychiatry, University of Colorado School of Medicine, Aurroa, CO, (11)Health Care Organization and Policy, University Alabama at Birmingham School of Public Health, Birmingham, AL, (12)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

166 ▸ 173.166 Validity and Reliability Analysis of Chinese Parent Version of the Autism Spectrum Rating Scales Y. Wang[1], H. Zhou[1], L. Zhang[1], L. Wu[2], X. Luo[3], X. Zou[4], W. Yan[1] and E. J. Fombonne[5], (1)Children's Hospital of Fudan University, Shanghai, China, (2)Department of Children's and Adolescent Health, Public Health, Harbin Medical University, Harbin, China, (3)Central South University, Changsha, China, (4)Pediatrics, Child Developmental & Behavioral Center, The 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, MD, (5)Oregon Health & Science University, Portland, OR

Poster Session
174 - Molecular and Cellular Biology
11:30 AM - 1:30 PM - Imperial Ballroom

167 174.167 A Metabolic Profile of Autism Spectrum Disorder from Autism Phenome Project Patient Plasma R. Burrier[1], D. G. Amaral[2], A. M. Smith[1], P. R. West[1], D. D. Li[2], B. Fontaine[1], E. Donley[1] and S. J. Rogers[3], (1)Stemina Biomarker Discovery, Madison, WI, (2)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (3)University of California at Davis, Sacramento, CA

168 174.168 A Novel Cost-Effective Approach to Derivation of Induced Pluripotent Stem Cells from Epstein-Barr Virus Immortalized Lymphoblastoid Cell Lines A. L. Wagoner[1,2], D. L. Mack[3], E. E. McKee[1] and S. J. Walker[1,2], (1)Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC, (2)Neuroscience Graduate Program, Wake Forest University Health Sciences, Winston-Salem, NC, (3)Institute for Stem Cell and Regenerative Medicine, University of Washington, Seattle, WA

169 174.169 A Systems Biology Approach to Drug Discovery in Autism A. Browne, E. Drapeau and J. D. Buxbaum, Seaver Autism Center for Research and Treatment, Department of Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY

170 174.170 Abnormal Expression of a SERT-Binding Protein, NSF, in Autism: Implications for Pathophysiology in Autism K. Iwata[1], H. Matsuzaki[2], K. Nakamura[3], T. Katayama[4] and N. Mori[5], (1)Research Center for Child Mental Development, Fukui Univ., Fukui, Japan, (2)Research Center for Child Mental Development, University of Fukui, Fukui, Japan, (3)Department of Neuropsychiatry, Graduate School of Medicine, Hirosaki University, Hirosaki, Japan, (4)Osaka University United Graduate School of Child Development, Suita, Japan, (5)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan

171 174.171 Autism Spectrum Disorder and the Brain-Gut-Microbiome Axis N. E. Furland[2,3] and M. T. Sindelar[3], (2)INIBIBB-CONICET-UNS, Bahia Blanca, Argentina, (3)Emily Fenichel Foundation, Bahía Blanca, Argentina

172 174.172 Dynamic Gene Network Analysis of Neuronal Differentiation Identifies Novel Gene-Network Clusters Specifically Enriched for Autism Risk Genes A. G. Chiocchetti[1], D. Haslinger[1], S. Lindlar[1], R. Waltes[1], S. Fulda[2] and C. M. Freitag[1], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, JW Goethe University, Frankfurt a. M., Germany, (2)Institute for Experimental Cancer Research in Paediatrics, JW Goethe University, Frankfurt am Main, Germany

173 174.173 Epigenetic Alterations in Autism Spectrum Disorder Following the Use of Fertility Treatments M. T. Siu[1], D. Grafodatskaya[1], D. T. Butcher[1], S. Choufani[1], Y. A. Chen[1], A. Pietrobon[1], Y. Lou[1] and R. Weksberg[1,2,3], (1)Genetics and Genome Biology, Hospital for Sick Children, Toronto, ON, Canada, (2)Hospital for Sick Children, Toronto, ON, Canada, (3)Dept. of Paediatrics and the Institute of Medical Science, University of Toronto, Toronto, ON, Canada

174 174.174 Involvement of Human Endogenous Retrovirus–H (HERV-H) in Autistic Spectrum Disorder E. Balestrieri[1], C. Cipriani[1], I. Bucci[1], C. Matteucci[1], A. Benvenuto[2], A. D. Argaw[1], P. Curatolo[2] and P. Sinibaldi-Vallebona[1,3], (1)Dept. Experimental Medicine and Surgery, University of Rome Tor Vergata, Rome, Italy, (2)Pediatric Neurology Unit, Neuroscience Department, University of Rome Tor Vergata, Rome, Italy, (3)Institute of Translational Pharmacology, CNR, Rome, Italy

175 174.175 Modeling Enteric Nervous System Function in Children with Phelan Mcdermid Syndrome A. L. Wagoner[1,2], D. L. Mack[3], E. E. McKee[1] and S. J. Walker[1,2], (1)Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC, (2)Neuroscience Graduate Program, Wake Forest University Health Sciences, Winston-Salem, NC, (3)Institute for Stem Cell and Regenerative Medicine, University of Washington, Seattle, WA

176 174.176 Serum Levels of Brain-Derived Neurotrophic Factor (BDNF), Tissue-Type Plasminogen Activator (tPA) and Its Inhibitor (PAI-1) in Children with Autism K. Wu[1], Z. Peng[1], W. Xia[2], C. Sun[2] and L. Wu[2], (1)Department of Nutrition and Food Hygiene, School of Public Health, Harbin Medical University, Harbin, China, (2)Department of Children Health and Hygiene, School of Public Health, Harbin Medical University, Harbin, China

177 174.177 Synaptic Protein Interaction Network Disruptions Suggest Convergence Among Autism Mouse Models S. E. Smith[1], S. C. Neier[1], T. R. Davis[2] and A. G. Schrum[1], (1)Mayo Clinic, Rochester, MN, (2)Immunology, Mayo Clinic, Rochester, MN

Poster Session
175 - Other
11:30 AM - 1:30 PM - Imperial Ballroom

178 175.178 An Overview of the Basic Genetic, Epigenetic, and Environmental Factors Relevant to ASD D. L. Coury, Nationwide Children's Hospital, Columbus, OH

179 175.179 Emerging Tools and Techniques Using Computational Pipelines and Results with NDAR C. Craddock[1] and D. Obenshain[2], (1)Center for the Developing Brain, Child Mind Institute, New York, NY, (2)NDAR, NIMH, Rockville, MD

180 175.180 Lessons Learned in Performing Secondary Analysis Using NDAR J. M. Tilford, Dept. of Health Policy and Management, University of Arkansas for Medical Sciences, Little Rock, AR

181 175.181 Age-Related Improvements in Mind-Reading but Not Parent Reported Empathy in Autism Spectrum Disorders I. Nagar[1] and A. Gupta[2], (1)Delhi University, New Delhi, Delhi, India, (2)Delhi University, New Delhi, India

182 175.182 Do EF Deficits Ameliorate with Age in Individuals High Functioning Autism? Examining Cognitive Flexibility, Planning, and Working Memory Across Childhood and Adolescence I. Nagar[1] and A. Gupta[2], (1)Delhi University, New Delhi, Delhi, India, (2)Delhi University, New Delhi, India

Oral Session – 11A
176 - New Treatments for Early Intervention
1:45 PM - 2:35 PM - Grand Ballroom B

Session Chair: L. R. Watson, *Division of Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC*

1:45 176.001 Early Intervention Improves Social Processing in Infants at High Familial Risk for ASD E. Jones[1], K. M. Burner[2], K. Venema[3], R. K. Earl[4], R. T. Lowy[4], J. Kelly[4], G. Dawson[5] and S. J. Webb[6], (1)Birkbeck College, University of London, London, United Kingdom, (2)Seattle Children's Hospital, Seattle, WA, (3)Palo Alto University, Palo Alto, CA, (4)University of Washington, Seattle, WA, (5)Psychiatry and Behavioral Sciences, Duke University, Durham, NC, (6)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA

1:57 176.002 Early Intervention Improves the Flexibility and Focus of Visual Attention in Infants at High Risk for ASD T. B. Team[1], E. Jones[2], M. W. Wan[3], T. Charman[4], M. H. Johnson[5] and J. Green[3], (1)BASIS, UK, United Kingdom, (2)Birkbeck College, University of London, London, United Kingdom, (3)Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, United Kingdom, (4)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, United Kingdom

2:09 176.003 Managing Repetitive Behaviours in Young Children with Autism Spectrum Disorder (ASD): New Parent Group Intervention V. Grahame[1], L. Dixon[2], J. Rodgers[3], H. McConachie[4], D. Brett[5] and A. S. Le-Couteur[5], (1)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle upon Tyne, England, United Kingdom, (2)Regional Complex Neurodevelopmental Disorder service, NTW NHS Foundation Trust, Newcastle, United Kingdom, (3)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom, (4)Institute of Health and Society, Newcastle University, Newcastle, United Kingdom, (5)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom

2:21 176.004 Design and Outcomes of a Large-Scale Randomized Trial of Parent Training for Children with ASD and Disruptive Behavior K. Bearss, Pediatrics, Emory University School of Medicine, Atlanta, GA

Oral Session – 11B
177 - Implementation of Evidence-Based Practices in Routine Care Settings: Feasibility, Acceptablity, and Provider Fidelity
2:40 PM - 3:30 PM - Grand Ballroom B

Session Chair: L. R. Watson, *Division of Speech and Hearing Sciences, University of North Carolina, Chapel Hill, NC*

2:40 177.001 A Pilot Study of an Innovative Service Delivery Model for Training Intervention Providers: Combining Web-Based Learning, Live Instruction and Remote Consultation A. L. Wainer[1], B. Ingersoll[2] and K. Pickard[3], (1)Michigan State University/JFK Partners, Colorado School of Medicine, Denver, CO, (2)Psychology, Michigan State University, East Lansing, MI, (3)Michigan State University, East Lansing, MI

2:52 177.002 Measuring the Impact of Training Community Mental Health Providers to Deliver a Package of Evidence-Based Strategies for ASD on Provider Behavior and Attitudes
C. Chlebowski[1,2], W. Ganger[2] and L. Brookman-Frazee[1,2], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA

3:04 177.003 Community Mental Health Therapist Perspectives on Changes in Clinical Practice Associated with Training and Delivery of a Mental Health Intervention for ASD M. Dyson[1], C. Chlebowski[2], N. Stadnick[2] and L. I. Brookman-Frazee[2], (1)University of California, San Diego, San Diego, CA, (2)Psychiatry, University of California, San Diego, San Diego, CA

3:16 177.004 Factors Associated with Intervention Uptake in Community Practice: Acceptability, Feasibility, and Implementation Climate C. Harker[1], S. R. Edmunds[2], L. V. Ibanez[1], C. Froehlig[1], S. Nanda[1], A. Penney[1], R. Talley[1] and W. L. Stone[3], (1)University of Washington, Seattle, WA, (2)UW Mailbox 357920, University of Washington, Seattle, WA, (3)Psychology, University of Washington, Seattle, WA

Oral Session – 12A
178 - Psychiatric Comorbidities in ASD
1:45 PM - 2:35 PM - Grand Ballroom A

Session Chair: S. J. Spence, *Neurology, Boston Children's Hospital, Boston, MA*

1:45 178.001 Cognitive and Biological Pathways to Anxiety in Children and Adolescents with Autism Spectrum Disorders M. J. Hollocks[1,2], A. Pickles[3], P. Howlin[4] and E. Simonoff[2], (1)Department of Clinical Neurosciences, University of Cambridge, Cambridge, United Kingdom, (2)Department of Child and Adolescent Psychiatry, King's College London, London, United Kingdom, (3)Department of Biostatistics, King's College London, London, United Kingdom, (4)Department of Psychology, King's College London, London, United Kingdom

1:57 178.002 Risk Factors for Self-Injurious Behaviors in Autism Spectrum Disorders G. N. Soke[1], C. DiGuiseppi[2], T. Fingerlin[3], C. Robinson[4], S. A. Rosenberg[5], R. F. Hamman[6] and A. M. Reynolds[1], (1)University of Colorado Denver, Aurora, CO, (2)Epidemiology/Colorado School of Public Health, University of Colorado - Denver, Aurora, CO, (3)National Jewish Health, Denver, CO, (4)Pediatrics and Psychiatry, University of Colorado School of Medicine, Aurora, CO, (5)Department of Psychiatry, University of Colorado School of Medicine, Aurroa, CO, (6)Epidemiology, Colorado School of Pubic Health, Aurora, CO

2:09 178.003 Relations Between Anxiety and Executive Function in Youth with ASD C. E. Pugliese[1], L. G. Anthony[2], C. Haake[3], J. L. Martucci[4], Y. Granader[2] and L. Kenworthy[5], (1)Children's National Medical Center, Washington, DC, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Department of Neuropsychology, Children's National Medical Center, Rockville, MD, (4)Children's National Medical Center, Rockville, MD, (5)Children's Research Institute, Children's National Medical Center, Washington, DC

2:21 ▸ 178.004 An International Multi-Site Investigation of the Measurement Properties of the Spence Children's Anxiety Scale – Parent Version (SCAS-P) to Report Anxiety Symptoms in Children and Adolescents with ASD I. Magiati[1], J. Rodgers[2], H. McConachie[3], M. South[4], M. J. Hollocks[5], A. Ozsivadjian[6] and E. Simonoff[7], (1)National University of Singapore, Singapore, Singapore, (2)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Psychology and Neuroscience, Brigham Young University, Provo, UT, (5)Department of Clinical Neurosciences, University of Cambridge, Cambridge, United Kingdom, (6)Guy's Hospital, London, United Kingdom, (7)Department of Child and Adolescent Psychiatry, King's College London, London, United Kingdom

Oral Session – 12B
179 - Medical Comorbidities in ASD
2:40 PM - 3:30 PM - Grand Ballroom A

Session Chair: S. J. Spence, *Neurology, Boston Children's Hospital, Boston, MA*

2:40 179.001 Ambulatory Care Sensitive Hospitalizations Among Children with Autism Spectrum Disorder P. S. Carbone[1], P. Young[1], G. Stoddard[1], J. Wilkes[1] and L. Trasande[2], (1)University of Utah, Salt Lake City, UT, (2)NYU School of Medicine, New York, NY

2:52 179.002 Pattern of Autism Spectrum Disorder and Co-Occurring Symptoms in Adopted Children J. Ezell[1], A. M. Shui[2], K. B. Sanders[3] and J. Veenstra-Vander Weele[4], (1)Psychiatry, Vanderbilt University Medical Center, Nashville, TN, (2)Biostatistics Center, Massachussetts General Hospital, Boston, MA, (3)Psychiatry, Vanderbilt University, Nashville, TN, (4)Columbia University, New York, NY

3:04 179.003 Predictors of Epilepsy in Children with ASD from a Large National US Sample J. B. Ewen[1], A. R. Marvin[2], J. K. Law[2], P. A. Law[3] and P. H. Lipkin[4], (1)Neurology and Developmental Medicine, Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD, (2)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (3)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Pediatrics/Neurology and Developmental Medicine, Kennedy Krieger Institute/Johns Hopkins School of Medicine, Baltimore, MD

3:16 179.004 The Behavioural Pediatrics Feeding Assessment Scale in Young Children with Autism Spectrum Disorder: Psychometrics and Associations with Child and Parent Variables S. L. Allen[1], I. M. Smith[2], E. K. Duku[3], T. Vaillancourt[4], P. Szatmari[5], S. E. Bryson[6], E. J. Fombonne[7], J. Volden[8], C. Waddell[9], L. Zwaigenbaum[10], W. Roberts[11], P. Mirenda[12], T. A. Bennett[13], M. Elsabbagh[14] and S. Georgiades[15], (1)Clinical Psychology, Dalhousie University, Halifax, NS, Canada, (2)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (3)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (4)University of Ottawa, Ottawa, ON, Canada, (5)University of Toronto, Toronto, ON, Canada, (6)Autism Research Centre, Dalhousie/IWK Health Centre, Halifax, NS, Canada, (7)Oregon Health & Science University, Portland, OR, (8)Communication Sciences and Disorders, University of Alberta, Edmonton, AB, Canada, (9)Faculty of Health Sciences, Simon Fraser University, Vancouver, BC, Canada, (10)University of Alberta, Edmonton, AB, Canada, (11)Pediatrics, University of Toronto, Toronto, ON, Canada, (12)University of British Columbia, Vancouver, BC, Canada, (13)Psychiatry and Behavioural Neurosciences, Offord Centre for Child Studies, McMaster University, Hamilton, ON, Canada, (14)Department of Psychiatry, McGill University, Montreal, QC, Canada, (15)McMaster University, Hamilton, ON, Canada

Oral Session – 13A
180 - Language Interventions in Young Children with ASD: Effectiveness and Impact
1:45 PM - 2:35 PM - Grand Ballroom C

Session Chair: A. M. Mastergeorge, *Family Studies and Human Development, University of Arizona, Tucson, AZ*

1:45 180.001 Does Intelligibility Change As a Function of Increased Spontaneous Communicative Utterances M. Mladenovic[1], A. C. Holbrook[2] and C. Kasari[3], (1)Semel Institute, University of California, Los Angeles, Los Angeles, CA, (2)Graduate School of Education and Information Studies, University of California, Los Angeles, Los Angeles, CA, (3)UCLA Center for Autism Research & Treatment, Westwood, CA

1:57 ▸ 180.002 Assessment of Early Social Communication and Play Skills in Toddlers with Autism By Community Teaching Professionals: The Short Play and Communication Evaluation S. Y. Shire[1] and C. Kasari[2], (1)University of California Los Angeles, Los Angeles, CA, (2)UCLA Center for Autism Research & Treatment, Westwood, CA

2:09 180.003 Exploring the Impact of Language Facilitation Strategies on Verbal Language in Two Year-Old, Minimally Verbal Children with ASD C. R. Chiarelli[1], A. B. Barber[2] and R. W. Saffo[3], (1)The University of Alabama, Marlton, NJ, (2)Communicative Disorders, University of Alabama, Tuscaloosa, AL, (3)Communicative Disorders, The University of Alabama, Tuscaloosa, AL

2:21 180.004 Spoken Communication Outcomes for Young Children with Autism: A Meta-Analysis and Meta-Regression L. H. Hampton[1], A. P. Kaiser[2] and E. Fuller[2], (1)Vanderbilt University, Nashville, TN, (2)Special Education, Vanderbilt University, Nashville, TN

Oral Session – 13B
181 - Language and Learning Abilities in School-Age Children and Adolescents with ASD
2:40 PM - 3:30 PM - Grand Ballroom C

Session Chair: A. M. Mastergeorge, *Family Studies and Human Development, University of Arizona, Tucson, AZ*

2:40 181.001 Beyond Sentences: Using the Expression, Reception and Recall Instrument (ERRNI) in School-Aged Children with Autism Spectrum Disorder (ASD) J. Volden[1], E. Dodd[1], K. Engel[2], P. Szatmari[3], S. E. Bryson[4], E. J. Fombonne[5], P. Mirenda[6], I. M. Smith[4], T. Vaillancourt[7], C. Waddell[8], L. Zwaigenbaum[9], T. A. Bennett[10], S. Georgiades[11], E. K. Duku[10] and M. Elsabbagh[12], (1)Communication Sciences and Disorders, University of Alberta, Edmonton, AB, Canada, (2)Communication Sciences and Disorder, University of Alberta, Edmonton, AB, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)Oregon Health & Science University, Portland, OR, (6)University of British Columbia, Vancouver, BC, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)Simon Fraser University, Vancouver, BC, Canada, (9)University of Alberta, Edmonton, AB, Canada, (10)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (11)McMaster University, Hamilton, ON, Canada, (12)Department of Psychiatry, McGill University, Montreal, QC, Canada

2:52 181.002 Language and Learning Abilities in 'Unaffected' School-Aged Siblings of Children with ASD E. E. Drumm[1], S. E. Bryson[2], L. Zwaigenbaum[3] and J. A. Brian[4], (1)University of Toronto, Toronto, ON, Canada, (2)Autism Research Centre, Dalhousie/IWK Health Centre, Halifax, NS, Canada, (3)University of Alberta, Edmonton, AB, Canada, (4)Bloorview Research Institute/ Paediatrics, Holland Bloorview Kids Rehab/ University of Toronto, Toronto, ON, Canada

3:04 181.003 Audiovisual Integration of Speech and Gesture in Adolescents with ASD L. B. Silverman[1], N. Gebhard[1], A. R. Canfield[2], J. T. Foley[1] and A. P. Salverda[3], (1)University of Rochester Medical Center, Rochester, NY, (2)University of Connecticut, Storrs, CT, (3)University of Rochester, Rochester, NY

3:16 181.004 Reading Comprehension, Language Disturbance, and the Social Communication Phenotype of ASD N. S. McIntyre[1], P. C. Mundy[2], M. Solomon[3], T. Oswald[4], L. E. Swain-Lerro[5] and M. C. Zajic[6], (1)UC Davis, Davis, CA, (2)2825 50Th Street, UC Davis, Sacramento, CA, (3)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, Sacramento, CA, (4)2825 50th Street, UC Davis, Sacramento, CA, (5)School of Education, UC Davis, Santa Rosa, CA, (6)School of Education, UC Davis, Davis, CA

Oral Session – 14A
182 - Complex Genetic Variants and Models of Autism
1:45 PM - 2:35 PM - Grand Ballroom D

Session Chair: T. N. Turner, *Genome Sciences, University of Washington, Seattle, WA*

1:45 182.001 Large-Scale Exome Analyses Reveal Novel ASD Genes Impacted By Genetic Variation at All Scales S. De Rubeis, for the Autism Sequencing Consortium, Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY

1:57 182.002 Somatic Mosaicism in Simplex Autism Spectrum Disorder D. Krupp[1], Y. Duffourd[2], S. Evans[1], R. Bernier[3], E. J. Fombonne[4], S. J. Webb[3], J. B. Riviere[2] and B. J. O'Roak[1], (1)Molecular and Medical Genetics, Oregon Health & Science University, Portland, OR, (2)Génétique des Anomalies du Développement, Université de Bourgogne, Dijon, France, (3)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (4)Psychiatry, Institute on Development and Disability, Oregon Health & Science University, Portland, OR

2:09 182.003 Function Based GWAS Identifies Novel Candidate Genes in Autism Spectrum Disorders L. K. Davis[1], E. R. Gamazon[1], E. O. Kistner-Griffin[2], E. H. Cook[3], J. Sutcliffe[4] and N. J. Cox[1], (1)University of Chicago, Chicago, IL, (2)Medical University of South Carolina, Charleston, SC, (3)University of Illinois at Chicago, Chicago, IL, (4)Vanderbilt University, Nashville, TN

2:21 182.004 Identifying Non-Protein Coding Autism Risk Variants By Computational Analysis of a Large Case Control Sequencing Cohort A. J. Griswold[1], D. Van Booven[1], N. D. Dueker[1], M. L. Cuccaro[1,2], E. R. Martin[1,2], J. L. Haines[3], J. R. Gilbert[1,2], J. P. Hussman[4] and M. A. Pericak-Vance[1,2], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, (3)Department of Epidemiology and Biostatistics, Case Western Reserve University, Cleveland, OH, (4)Hussman Institute for Autism, Baltimore, MD

Oral Session – 14B
183 - Epigenetics of Autism
2:40 PM - 3:30 PM - Grand Ballroom D

Session Chair: T. N. Turner, *Genome Sciences, University of Washington, Seattle, WA*

2:40 183.001 Using Lymphoblastoid Cell Lines to Investigate Altered DNA Methylation in a Subtype of ASD V. Hu, The George Washington University School of Medicine and Health Sciences, Washington, DC

2:52 183.002 Enrichment of Methylation Quantitative Trait Loci Among Genes Associated with Autism Spectrum Disorder S. V. Andrews[1], C. Ladd-Acosta[1], A. P. Feinberg[2] and M. D. Fallin[3], (1)Johns Hopkins University, Baltimore, MD, (2)Medicine, Johns Hopkins University, Baltimore, MD, (3)Mental Health & Wendy Klag Center for Autism and Developmental Disabilities, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

3:04 183.003 Epigenomics of ASD R. Weksberg[1], D. T. Butcher[2] and S. Choufani[2], (1)Dept. of Paediatrics and the Institute of Medical Science, University of Toronto, Toronto, ON, Canada, (2)Genetics and Genome Biology, Hospital for Sick Children, Toronto, ON, Canada

3:16 183.004 Epigenetic Alterations Tied to Brain Enlargement in Autism Spectrum Disorder C. K. Deutsch[1], F. Momen Heravi[1,2], R. W. Francis[1] and S. Akbarian[3], (1)Eunice Kennedy Shriver Center, Worcester, MA, (2)Harvard School of Public Health, Boston, MA, (3)Psychiatry and Neuroscience, Icahn School of Medicine at Mount Sinai, New York City, NY

Oral Session – 15A
184 - Assessment and Measurement of Sensory Issues
1:45 PM - 2:35 PM - Grand Salon

Session Chair: M. Huerta, Weill Cornell Medical College, White Plains, NY

1:45 184.001 An Altered Olfactory Profile in Children Diagnosed with Autism Spectrum Disorder L. Rozenkrantz[1], I. Heller[1], A. Plotkin[1], A. Weissbrod[1], D. Zachor[2] and N. Sobel[1], (1)Department of Neurobiology, Weizmann Institute of Science, Rehovot, Israel, (2)Autism Center, Asaf Harofeh Medical Center, Zerifin, Israel

1:57 184.002 Sensory Subtypes and Heart Rate Variability in Children with Autism Spectrum Disorder A. E. Lane[1] and R. Schaaf[2], (1)University of Newcastle, Callaghan, Australia, (2)Thomas Jefferson University, Phildalphia, PA

2:09 184.003 Classifying Patterns of Preschool Aged Children with Autism S. D. Tomchek[1,2], L. Little[3] and W. Dunn[4], (1)Pediatrics, University of Lousiville Weisskopf Center, Louisville, KY, (2)Occupational Therapy Education, Kansas University Medical Center, Kansas City, KS, (3)Occupational Therapy Education, Kansas Univeristy Medical Center, Kansas City, KS, (4)Occupational Therapy, University of Kansas Medical Center, Kansas City, KS

2:21 184.004 Longitudinal Study of Children's Sensory Response Patterns: Stability, Change and Treatment Effects G. T. Baranek[1], A. V. Kirby[2], L. R. Watson[3], K. Williams[2], J. C. Bulluck[4] and J. Sideris[5], (1)Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Division of Occupational Science and Occupational Therapy, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Division of Speech and Hearing Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Department of Allied Health Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Frank Porter Graham Child Development Institute, Chapel Hill, NC

Oral Session – 15B
185 - Sex Differences: Assessment and Measurement
2:40 PM - 3:30 PM - Grand Salon

Session Chair: M. Huerta, Weill Cornell Medical College, White Plains, NY

2:40 185.001 Sex Differences in Social Impairment in Preschool-Aged Children with Autism Spectrum Disorder R. T. Johnson, D. D. Li, D. G. Amaral, S. J. Rogers, S. Ozonoff and C. W. Nordahl, MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA

2:52 185.002 Gender Differences in Age of ASD Diagnosis and Social Characteristics of Children with ASD: From a US National Registry B. Chen[1], A. R. Marvin[2] and P. H. Lipkin[3], (1)Pediatrics, Child Developmental and Behavioral Center, 3rd Affiliated Hospital of Sun Yat-sen University (SYSU), Guangzhou, China, (2)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (3)Pediatrics/ Neurology and Developmental Medicine, Kennedy Krieger Institute/ Johns Hopkins School of Medicine, Baltimore, MD

3:04 185.003 Profile of Girls Diagnosed with Autism Spectrum Disorder in a Clinical Setting C. Hall, T. Aronson and S. Hoffenberg, Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

3:16 185.004 The ADOS-2 and ADI-R: Are There Sex Differences? M. Huerta[1], S. L. Bishop[2] and C. Lord[1], (1)Weill Cornell Medical College, White Plains, NY, (2)Psychiatry, University of California, San Francisco, San Francisco, CA

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IMFAR Annual Meeting – International Meeting for Autism Research

The year 2015 marks the 14th International Meeting for Autism Research (IMFAR). The IMFAR Annual Meeting was convened for the first time in November 2001, to provide ASD researchers from around the world with a focused opportunity to share the rapidly moving scientific investigation of ASD. Until that meeting, ASD researchers competed with many other groups for the opportunity to share their work at large scientific meetings that covered a wide range of topics. While other meetings provided some opportunity to share high quality ASD research, none of them focused specifically on ASD. Funding for ASD research has increased steadily, highlighted by the emergence of private foundations, such as Autism Speaks and several NIH initiatives: The Autism Centers for Excellence (ACE), which replaces earlier NIH programs – The Collaborative Programs of Excellence in Autism (CPEA) and the Studies to Advance Autism Research and Treatment (STAART) network program. Stimulating more scientific progress in understanding ASD requires dedicated yearly venue for ASD researchers to share their findings and their resources.

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

Objectives of the Meeting

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

Abstracts

Abstracts from the 2015 Annual Meeting are available on the INSAR website. An archive of past meeting abstracts is also available online.

Insurance, Liabilities

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

Exhibits

The Exhibit Hall is an integral part of the learning experience. Attendees will have an ideal opportunity to learn about the latest in pharmaceuticals, publications, scientific equipment, and technology. A complete exhibitor listing is included in this Program Book. To ensure safety and security, no children, strollers, carriages, wheeled luggage or wheeled briefcases will be allowed in the Exhibit Hall during exhibit hours.

Exhibits will be held in the Grand Ballroom Reception on the 1st Floor of the hotel.

Thursday, May 14 . . . . . 8:00 a.m. – 4:00 p.m.

Friday, May 15 . . . . . 8:00 a.m. – 4:00 p.m.

Saturday, May 16 . . . . . 8:00 a.m. – 12:00 p.m.

Wireless Internet

Wireless internet is available in all meeting rooms from Wednesday, May 13 – Saturday, May 16. Please follow the instructions bellow to access the Internet:

- Connect to the GAET Network
- Enter the Password grand2015

Language

The official language of the Annual Meeting is English. Translation service will not be available for any sessions.

Photography and Recording of Programs

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

Press Room

The Press Room is located on the 3rd Floor in Audubon Room. Press Room hours are:

Thursday, May 14 . . . . . 9:00 a.m. – 5:00 p.m.

Friday, May 15 . . . . . 9:00 a.m. – 5:00 p.m.

Saturday, May 16 . . . . . .9:00 a.m. – Noon

Program Changes

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

Meeting Location

The Grand America Hotel
555 South Main St.
Salt Lake City, UT 84111
801.258.6000

Business Center

The hotel Business Center is located just past the front desk near the hotel lobby.

No Smoking Policy

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

Information for International Travelers

Consulates and Embassies: All international embassies from other countries to the United States are located in Washington, D.C. There are a few international embassy branch offices, called consulates, located in Salt Lake City, Utah. If your country does not have a consulate in Salt Lake City, Utah, call directory information in Washington, D.C. (phone: 202.555.1212) for the number of your national embassy.

Gratuities

Gratuities are not automatically added to the bill, except in some cases for large groups. Waiters and waitresses are usually given 15% of the bill. Taxi drivers usually receive 10% of the fare and doormen, skycaps and porters are normally tipped $1 per bag.

Registration and Security

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

Future IMFAR Annual Meeting Dates

2016 — Baltimore, Maryland, USA . . . . . .May 11-14

2017 — San Francisco, California, USA. . . . . .May 10-13

2018 — Rotterdam, the Netherlands . . . . . .May 9-12

Safety and Security Information

The Grand America Hotel security team will be on site during the entire IMFAR Congress. In case of emergency please dial "0" and the hotel operator will dispatch a security person and EMS to assist you, or you may ask any Grand America Hotel Staff member for assistance. Trained Medical Personnel will also be on site throughout the entire Congress to handle any medical emergency. Appropriate badges will be required to enter all educational sessions, Poster Sessions, the Exhibit Hall and meetings. Due to safety and fire regulations doors will be closed to all session rooms that are filled to capacity.
Throughout the meeting, you will notice a presence of security staff to monitor the safety of all participants. Do not leave unattended packages (i.e. briefcases, laptops purses, etc.) in any area of the Hotel. Please report any suspicious activity to security staff or to the IMFAR Registration desk staff.

General Safety Tips

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

Contact Information

International Society for Autism Research (INSAR)

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Autism BrainNet
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Sacramento, CA 95817
Phone: (877) 333-0999
Email: melmil@ucdavis.edu
Website: takesbrains.org

Autism BrainNet is a multi-site network that acquires, stores, processes and distributes brain tissue resources to accelerate autism research and increase our understanding of the underlying biological basis of autism. Autism BrainNet is a collaboration between the Simons Foundation Autism Research Initiative (SFARI), Autism Speaks and the MIND Institute at UC Davis.

Autism Science Foundation
Casey Gold, Operations Manager
28 W 39th Street, Suite 502
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Phone: (212) 391-3913
Email: contactus@autismsciencefoundation.org
Website: www.autismsciencefoundation.org

The Autism Science Foundation provides funding directly to scientists conducting cutting-edge autism research to discover the causes of autism and develop better treatments. We also provide information about autism to the general public and support the needs of individuals with autism and their families.

Autism Speaks
Robert H. Ring, PhD
Chief Science Officer
1060 State Road
Princeton, NJ 08540
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Email: info@autismspeaks.org
Website: www.autismspeaks.org

Autism Speaks is the world's leading autism science and advocacy organization. It is dedicated to funding research into the causes, prevention, treatments and a cure for autism; increasing awareness of autism spectrum disorders; and advocating for the needs of individuals with autism and their families. Since its inception, Autism Speaks has committed more than $525 million to its mission, the majority in science and medical research. On the global front, Autism Speaks has established partnerships in more than 60 countries on five continents to foster international research, services and awareness.

Behavior Imaging Solutions
Ron Oberleitner MBA, CEO
413 W. Idaho Street, Suite 301
Boise, ID 83702
Phone: (208) 629-8778
Email: info@behaviorimaging.com
Website: www.behaviorimaging.com

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Bio Med Central

Journals website:
Email: info@biomedcentral.com
Website:
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BioMed Central is an STM (Science, Technology and Medicine) publisher of 277 peer-reviewed open access journals. The portfolio of journals spans all areas of biology, biomedicine and medicine and includes broad interest titles, such as *BMC Biology* and *BMC Medicine* alongside specialist journals, such as *Molecular Autism* and *Journal of Neurodevelopmental Disorders*.

DELSIA
Dan Smith, Ph.D.
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C/o Autism Speaks,
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Delivering Scientific Innovation for Autism LLC (DELSIA) is a venture philanthropy affiliate of Autism Speaks. It is an innovative funding vehicle with the goal of transforming lives and improving outcomes for individuals with autism. DELSIA partners with entrepreneurs, start-ups, small and large companies to catalyze the translation of scientific breakthroughs and technological advances into products that improve health and quality of life for people with autism and their families.

DriveSafety, Inc.

DriveSafety, Inc.
Douglas F. Evans, CEO
Email: devans@drivesafety.com
Mobile: (801) 599-9209

DriveSafety provides interactive simulation systems currently used in clinical and research settings for cognitive, behavioral, and communication skills for individuals with ASD with and without the potential to acquire a driver's license. Our clinical tools include over 40 highly engaging patient exercises with subjective performance measures in many functional areas.

Electrical Geodesics, Inc. (EGI)
500 East 4th Avenue, Suite 200
Eugene, OR 97401
Phone: (541) 687-7962
Email: info@egi.com
Website: www.egi.com

Whole-head, fMRI-compatible EEG with 32, 64, 128, or 256 channels. Complete systems include the Geodesic Sensor Net for easy and comfortable application, amplifier, and software with Metafile Format that facilitates interoperation with third party software. EGI also offers source estimation software, experimental control workstations, and integrated eye tracking systems.

GRAND,
Global Research in Autism and NeuroDevelopment
The Global Health Network (TGHN)
University of Oxford
Dr. Elizabeth Rapa
Tel: + 44 1865 226445
Email: grand@theglobalhealthnetwork.org.

Global Research in Autism and NeuroDevelopment (GRAND) (www.grand.tghn.org) is an online worldwide community enabling people to share knowledge, tools and resources, raise awareness and develop interventions. It is part of The Global Health Network (www.tghn.org) which facilitates collaborations, accelerates and streamlines research through an innovative digital platform.

Interactive Autism Network
Kennedy Krieger Institute
3825 Greenspring Avenue
Painter Building, 1st Floor
Baltimore, MD 21211
Phone: 443-923-4140
Email: ResearchTeam@IANproject.org

IAN, the Interactive Autism Network, facilitates the work of ASD researchers in the US and abroad through its online research registry, database, and community resource. With over 50,000 research participants, IAN helps researchers recruit subjects, administer online studies, and educate and engage the public. For more information, visit iancommunity.org.

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Mangold International is a world leading provider of stationary and portable labs for observational studies. Mangold products allow researchers from various disciplines to quickly perform their studies using live observation, video based analysis, eye tracking, physiological data analysis and more. Mangold solutions integrate the latest hardware and software technologies. More at www.mangold-international.com.

Marcus Autism Center
1920 Briarcliff Road
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Email: Katie.Lindsey@choa.org
Website: www.marcus.org

Marcus Autism Center is a not-for-profit organization and subsidiary of Children's Healthcare of Atlanta that impacts over 9,000 children a year.

As one of the largest autism centers in the U.S. and one of only three National Institutes of Health (NIH) Autism Centers of Excellence, Marcus Autism Center offers families access to the latest research, comprehensive evaluations and intensive behavior treatments. With the help of research grants, community support and government funding, Marcus Autism Center aims to maximize the potential of children with autism today and transform the nature of autism for future generations.

NIH/NIMH
6001 Executive Boulevard
Rockville, MD 20852

The National Institutes of Health (NIH), a part of the U.S. Department of Health and Human Services External Web Site Policy , is the nation's medical research agency—making important discoveries that improve health and save lives. NIH is the largest source of funding for medical research in the world, creating hundreds of thousands of high-quality jobs by funding thousands of scientists in universities and research institutions in every state across America and around the globe.

Office of Autism Research Coordination, NIMH/NIH
Susan Daniels, Ph.D., Director
Email: IACCPublicInquiries@mail.nih.gov

The Office of Autism Research Coordination (OARC) coordinates and manages the Interagency Autism Coordinating Committee (IACC) and related cross-agency autism spectrum disorder (ASD) activities, programs, and policies. The IACC is a federal advisory committee mandated by Congress to coordinate ASD related activities across the U.S. Department of Health and Human Services.

Prometheus Research
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Website: www.prometheusresearch.com

Prometheus is the premier data management partner for autism research, having supported some of the largest and most ambitious projects in the field. From data centralization and enrollment reporting to remote collaborations and NDAR submissions, we deliver sensible solutions to the ordinary and extraordinary challenges of conducting behavioral research.

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Email: salesus@smivision.com
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Simons Foundation
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Website: www.sfari.org

The Simons Foundation Autism Research Initiative (SFARI) seeks to improve the understanding, diagnosis and treatment of autism spectrum disorders by funding innovative research of the highest quality and relevance. SFARI currently funds over 190 investigators in the United States and abroad and makes $60M per year in grants for autism research. SFARI also aims to facilitate the field as a whole by developing resources for scientists.

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Looking for the best place to publish?

The new Editor-in-Chief of *Autism Research* welcomes past, present, and emerging authors

The International Society for Autism Research (INSAR) and its publishing partner Wiley, are delighted to announce that the new Editor-in-Chief of *Autism Research*, now online only, will be Dr. David G. Amaral, Ph.D. of the UC Davis MIND Institute. Dr. Amaral will be at the helm of a new organizational structure that will increase the speed to the first decision and will insure the fair review of papers related to all areas of autism research.

"I am extremely pleased that Autism Research *will expand its coverage to all areas of modern research on autism spectrum and related disorders and Associate Editors will now be responsible coordinating peer review of articles for various sections of the journal. The new editorial staff will also increase the number of review papers published by the journal to aid in the education of the INSAR membership. We look forward to publishing your research."*

Editor-in-Chief David Amaral, Ph.D.

Meet the new *Autism Research* Associate Editors

Evdokia Anagnostou, MD
Bloorview Research Institute
Treatment – including clinical trials

Peter Mundy, Ph.D.
UC Davis MIND Institute
Psychology/Cognitive Neuroscience

Ralph-Axel Müller, Ph.D.
San Diego State University
Neuroimaging/Neuropathology

Craig J. Newschaffer, Ph.D.
A.J. Drexel Autism Institute, Drexel University
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SAVE THE DATE!

2016
IMFAR
Annual Meeting

May 11-14, 2016
Baltimore Convention Center
Baltimore, MD USA

Abstract submission for the 2016 meeting is scheduled to open in September 2015.
Watch our website for details.

www.autism-insar.org

IMFAR is the annual meeting of the
International Society for Autism Research