IMFAR

INTERNATIONAL MEETING FOR AUTISM RESEARCH

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

May 11-14, 2016

Baltimore Convention Center | Baltimore, Maryland, USA

International Meeting for Autism Research

www.autism-insar.org

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

INSAR Mission Statement

To promote the highest quality autism research in order to improve the lives of individuals affected by Autism Spectrum Disorder.

Strategic Initiatives

Setting the Bar - Increase the quality of research promoted through its annual meeting, journal, and other activities.

Interdisciplinary and Translational - Cultivate interdisciplinary and translational research, public-private partnerships, and relationships with industry.

Diverse and Global - Increasingly represent and serve a diverse and global community.

Next Generation - Foster opportunities for leadership and career development for the next generation of ASD researchers.

Building Identity - Promote INSAR as the premier society for autism researchers.

Research to Practice - Disseminate science-based knowledge to inform research priorities, public policy, professional practice, and public understanding.

Partnerships - Foster communication between autism researchers and individuals affected by autism spectrum disorder.

Introducing the 365 App for INSAR

Download one app for 365 access to INSAR society information and IMFAR event details.

Visit www.autism-insar.org/365mobileapp for instructions on how to download the app.

To use the "Connect" feature to communicate with other IMFAR registrants, enter the password: imfar16 when prompted.

Note: Some registrants 'opted-out' and will not be listed.

IMFAR WELCOME

Welcome to Maryland for the 15th annual International Meeting for Autism Research (IMFAR). More than 1,500 abstracts were submitted and reviewed for IMFAR 2016, and this year's event promises exciting and groundbreaking insights into autism causes and treatments.

I would like to thank the Scientific Program chairs, Drs. Dani Fallin and Stewart Mostofsky, for their efforts to bring us top-notch keynote addresses, oral and poster sessions, Special Interest Groups, and luncheon events for students and stakeholders. Also, I extend appreciation to the INSAR Board and the abstract reviewers for the time and expertise they devoted to ensuring a stellar 2016 IMFAR scientific program. Special thanks to Jennifer Gentry and Joe Dymek for all the behind-the-scenes efforts to ensure a highly organized and positive experience for attendees.

Please join me in expressing heartfelt congratulations to those being honored this year as they receive the Lifetime Achievement, Advocacy, Slifka/Ritvo Innovation, Young Investigator, and Dissertation awards.

I would like to acknowledge and thank the IMFAR preconference planning committee members, including Elizabeth Stripling, Melanie Pinkett-Davis, Joy Johnson, Paul Lipkin, Theresa Sule, Jewell Thompson, Anna Maria Wilms-Floet, Roma Vasa and the entire Marketing and PR Department from Kennedy Krieger Institute, who led our planning efforts and deserve recognition for their hard work and excellent ideas. I also wish to thank the following individuals who contributed to planning the preconference:

Stephanie Alban
Linda Brandenburg
M. Daniele Fallin
Carrie Hubbard
Steven Lindauer
Fernanda Orsati
Rebecca Rienze
Christy Russell
Beth Ann Schaeffer
Marjorie Shulbank
Christopher Smith

On behalf of all of us, I extend a warm welcome to Baltimore and wish you a fulfilling experience at IMFAR 2016. In addition to soaking in exciting new research findings, I hope you will make time to experience some of the history, sights, and cuisine of Baltimore—don't leave without trying a Maryland crab cake, and be sure to take home a can of Old Bay seasoning!

Sincerely,
Rebecca Landa, PhD
IMFAR Meeting Chair

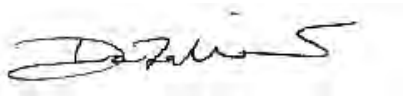
IMFAR is the Annual Meeting of the International Society for Autism Research (INSAR).

Welcome to the 15th annual International Meeting for Autism Research (IMFAR) in Baltimore, Maryland, 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 over 1,500 submissions this year were rated by dedicated reviewers, topic chairs, and members of the Program Committee, resulting in over 1,400 acceptances. Presenters come from over 40 countries across the globe.

Topics again spanned the full range of autism research, including epidemiology, services, brain structure and function, diagnostic, behavioral and intellectual assessment, social behavior and social cognition, communication and language, cognition and attention, repetitive behaviors and interests, comorbid syndromes, early development, adult outcome, behavioral and pharmacological interventions across the lifespan, genetics, animal models, molecular biology, family issues, new technologies, and perspectives across cultures and countries. We continued the successful keynote speaker invited panels model from 2015. Our Keynote Lecturers, Irva Hertz-Picciotto, Guoping Feng, and Paul Shattuck, span environmental health, molecular mechanisms of neurodevelopmental disorders, and lifecourse outcomes and challenges for people with ASD. Each lecturer has assembled 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. We tried to provide an opportunity for all topic areas in both oral and poster session platforms. All 20 submission topics have at least one oral session or panel session this year. This year we are also continuing 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.

We are extremely grateful to each member of the Program Committee and to each Topic Review Chair or Co-Chair (listed on page 16) for their hard work and rapid response. We are also grateful to all the INSAR members who volunteered as reviewers to help inform the Topic Chairs in their challenging job of choosing oral and poster session abstracts. INSAR President Geri Dawson, INSAR Board members, and INSAR Board-IMFAR Liaison James McPartland contributed tremendously valuable input at each phase of program development. Importantly, we all owe our deepest gratitude to Jennifer Gentry, INSAR Administrative Director, who sustains this process across IMFAR conferences, and facilitates timely and professional organization, review, and implementation of the scientific program, 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 2016.

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 historic Baltimore will improve the quality of life for people on the autism spectrum and their families.



M. Daniele Fallin, PhD
IMFAR 2016 Scientific Program Co-Chair

Stewart H. Mostofsky, MD
IMFAR 2016 Scientific Program Co-Chair

PRESIDENT'S WELCOME

It's truly a pleasure to welcome you to Baltimore for the 2016 International Meeting for Autism Research. IMFAR brings together autism researchers from a wide range of disciplines from discovery science to population health with practitioners, policy-makers, industry representatives, and those affected by autism. As a world-wide forum, IMFAR offers an opportunity to learn from each other and form collaborations across the globe.

IMFAR 2016 would not have been possible without the hard work of many people. I wish to begin by thanking Rebecca Landa, who serves as the 2016 Meeting Chair and is responsible for putting together an engaging pre-IMFAR stakeholder conference and a welcoming opening reception. She worked tirelessly throughout the year with the local community and meeting planning committee, Joe Dymek and Jennifer Marshall from Conference Direct, and Jennifer Gentry from Association Resources to create an inviting venue where we can share ideas, present new findings, meet new people, and enjoy friendships and colleagues. I also want to express our deep gratitude to Dani Fallin and Stewart Mostofsky who are responsible for the scientific program. Working with the scientific program committee, their efforts in soliciting and overseeing the review of hundreds of abstracts and proposals have resulted in an outstanding line-up of keynote speakers and panels, educational symposia, and numerous scientific sessions which showcase the most recent scientific discoveries and their applications. The meeting will also will provide a forum for many student and trainee activities, special interest groups, and community and international forums to meet and collaborate.

I wish to congratulate Christopher Gillberg, who is receiving this year's Lifetime Achievement Award. His extensive research on the etiology and neuroscience of autism has greatly influenced our current conceptualizations. I am also delighted that Tom Insel, formerly Director of the National Institute of Mental Health, has been chosen to receive this year's Advocate Award. We are especially grateful for his leadership of the Interagency Autism Coordinating Committee and advocacy for the importance of funding autism research. I hope you will attend the awards ceremony so you can learn more about their accomplishments as well as those of our Dissertation Award winners.

One of the pleasures of serving as President of INSAR is the opportunity to work with the INSAR board members. I wish to thank Craig Newschaffer, Vice President, who leads our educational activities, Franky Happé, Past-President, who is responsible for our global reach mission, Kasia Chawarska, Secretary, who oversees awards and elections, David Amaral, Editor, Autism Research, Raphael Bernier, Treasurer, and Jamie McPartland, Past-Treasurer, who helped organize the annual meeting. I also want to welcome Simon Baron-Cohen, who recently was elected President-Elect and will work by my side during the upcoming year to provide leadership for INSAR. The INSAR Board works closely with numerous committee chairs and members to advance our mission. Without the volunteer efforts of the many people who care about promoting autism research and improving the lives of those affected by autism, INSAR and the annual meeting would not be possible.

The past year has witnessed several new developments and successes, including hosting the first Regional IMFAR meeting in Shanghai, China. I hope you will take a moment to read our first INSAR Annual Report, which highlights the exciting accomplishments of the past year. One of our major accomplishments was updating the INSAR Strategic Plan, which is now published on the INSAR website. The updated mission statement and strategic plan reflects our continuing focus on promoting high quality science and nurturing new investigators throughout the world, along with a stronger focus on translating that science to have real world impact. If you are passionate about a scientific topic that you believe could have significant impact on policy or practice, I hope you will consider applying for a new INSAR grant initiative that will support the creation of an INSAR Policy Report, including a consensus meeting and document that describes policy recommendations.

Thank you for being part of IMFAR 2016. I hope the meeting will stimulate new ideas, catalyze collaboration, and inspire and refresh you in your work. If you aren't already a member, please considering becoming part of INSAR.

Geraldine Dawson, PhD, FAPA, FAPS
President, International Society for Autism Research

Special Interest Groups (SIGs)

Friday, May 13, 2016
7:15 AM - 8:45 AM

Implementing and Evaluating Community-Based Early Intervention (Returning SIG)
Room: 307
Session Chairs: Kristelle Hudry & Giacomo Vivanti
Co-Leader (ECR): Melissa Maye

Moving Past the Categories: Creating Novel Re-conceptualizations of the ASD Diagnosis and Phenotype
Room: 308
Session Chairs: Eric London, Christopher Gillberg
Faculty: Nancy Minshew, Emanuel Dicicco-Bloom, Susan Hyman, Tristram Smith, Margaret Bauman, Marshalyn Yeargin-Allsopp, Matthew Maenner

Older Adults with ASD: The Consequences of Aging
Room: 309
Session Chairs: Hilde Geurts
Co-Leader: Amanda Roestorf

Suicidality in Autism Spectrum Conditions: Setting Priorities for Future Research
Room: 310
Session Chairs: Sarah Cassidy, Jacqui Rodgers, Mikle South, Lori McIlwain
Co-Leaders: Magda Glod and Kathryn Cook

Saturday, May 14, 2016
7:15 AM - 8:45 AM

Anxiety in Autism: Mechanisms, Measurement, and Treatment (Returning SIG)
Room: 307
Session Chair: Mikle South
Co-Leader: Alana McVey

Bridging the Research/Application Gap: Incorporating Autistic Intellect in Research Design and Evaluation
Room: 308
Session Chairs: Dena L. Gassner and Stephen Shore

Multiple Risk Factors for ASD: Genetic Predisposition **and Environmental Influences (Returning SIG)**
Room: 309
Session Chair: Heather Volk
Co-Leader: Shannon Ellis

Speaker Ready Room for Oral Presenters

Location: Room 305

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 11	3:00 p.m. - 6:00 p.m.
Thursday, May 12	7:30 a.m. - 5:30 p.m.
Friday, May 13	7:30 a.m. - 5:30 p.m.
Saturday, May 14	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.

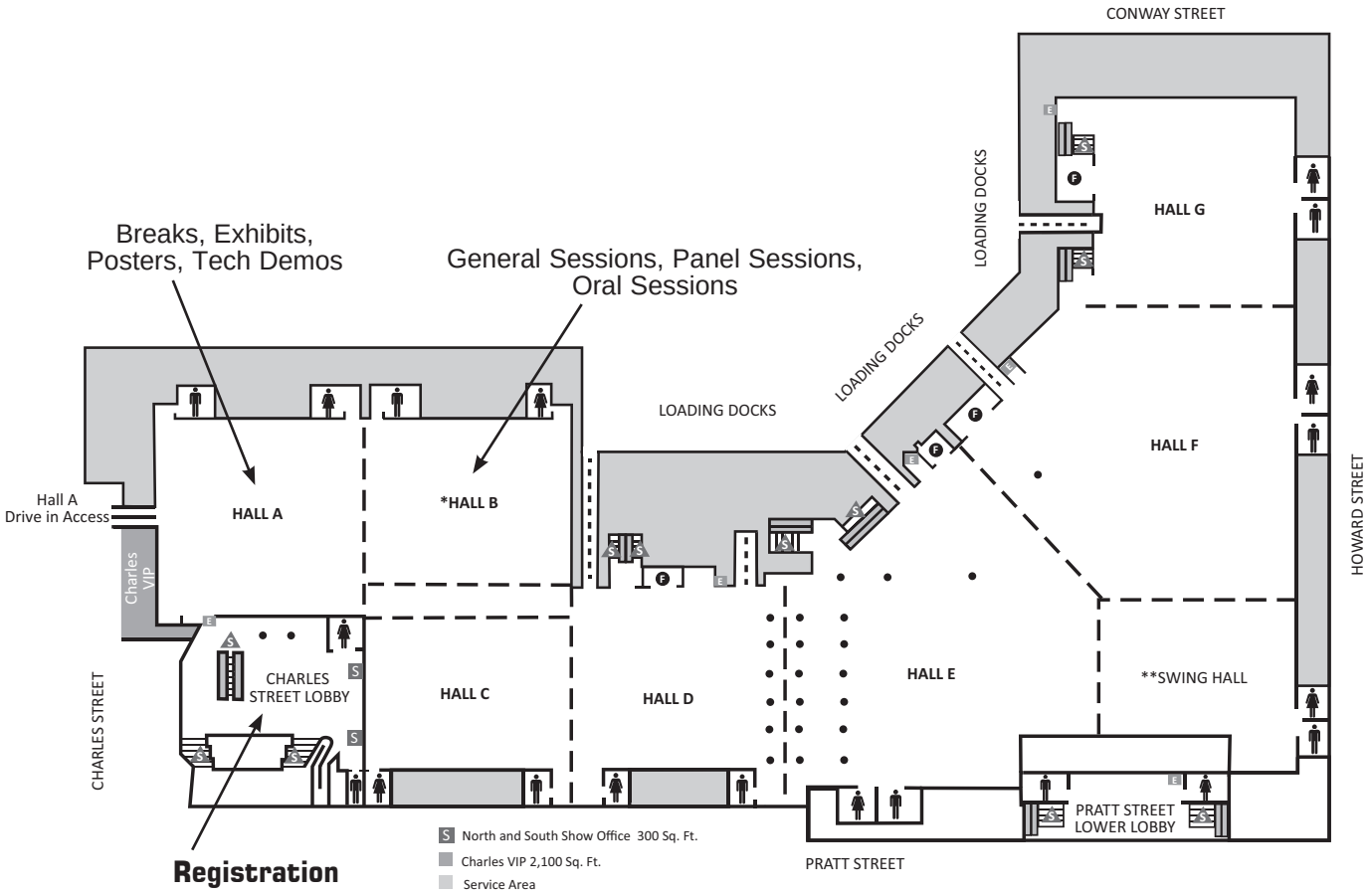
2016 INSAR Summer Institute: Familial Aspects of Autism

INSAR is hosting a free series of six weekly online seminars on selected topics related to familial aspects of autism. The seminars will cover a variety of topics on autism and the family, from sex differences to family interventions, to the broader autism phenotype.

June 23	**Anthony Bailey** Familial Risk Factors and Comorbidities
June 30	**Joseph Piven** Infant Siblings of Children with ASD
July 7	**Connie Kasari** Parent and Family-Led Interventions
July 14	**William Mandy** Sex Differences in ASD
July 21	**Patricia Howlin** ASD in Adulthood
July 28	**John Constantino** The Broader Autism Phenotype

Registration is free and available worldwide
Visit www.autism-insar.org for details.

Level 100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General Sessions, Panel Sessions, Oral Sessions
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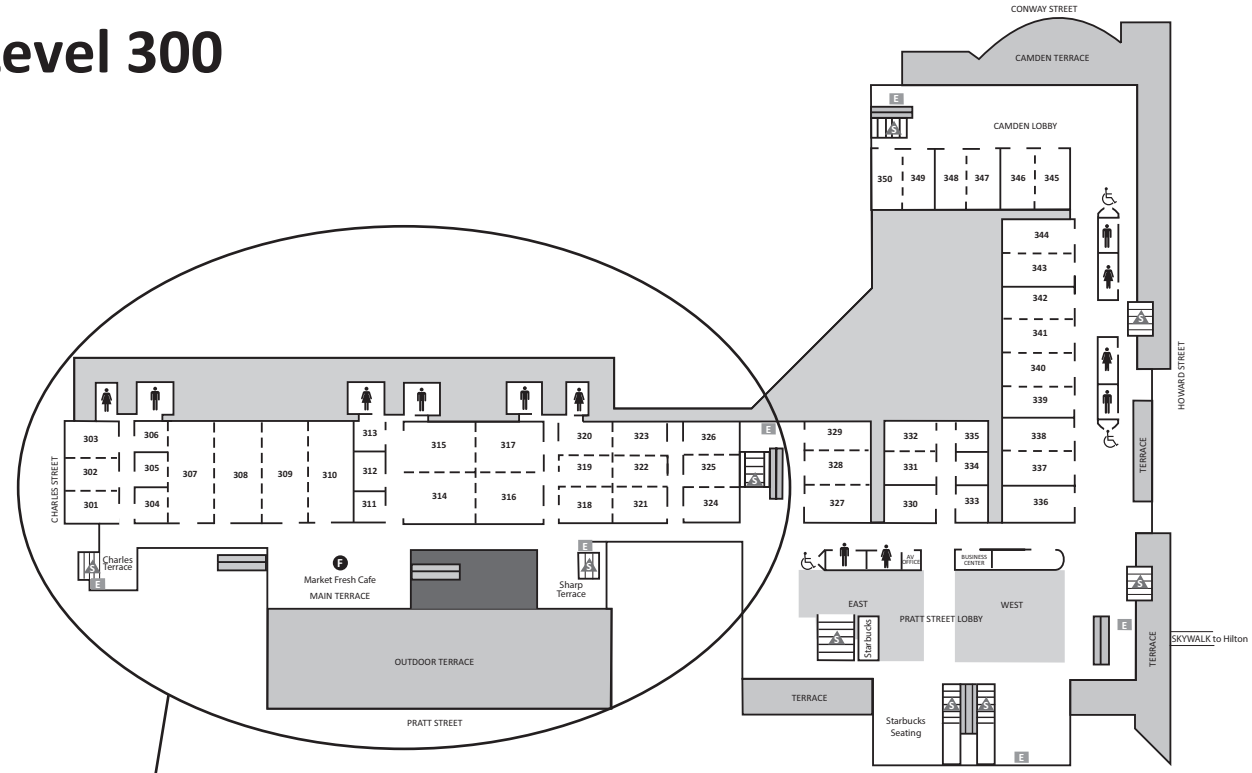
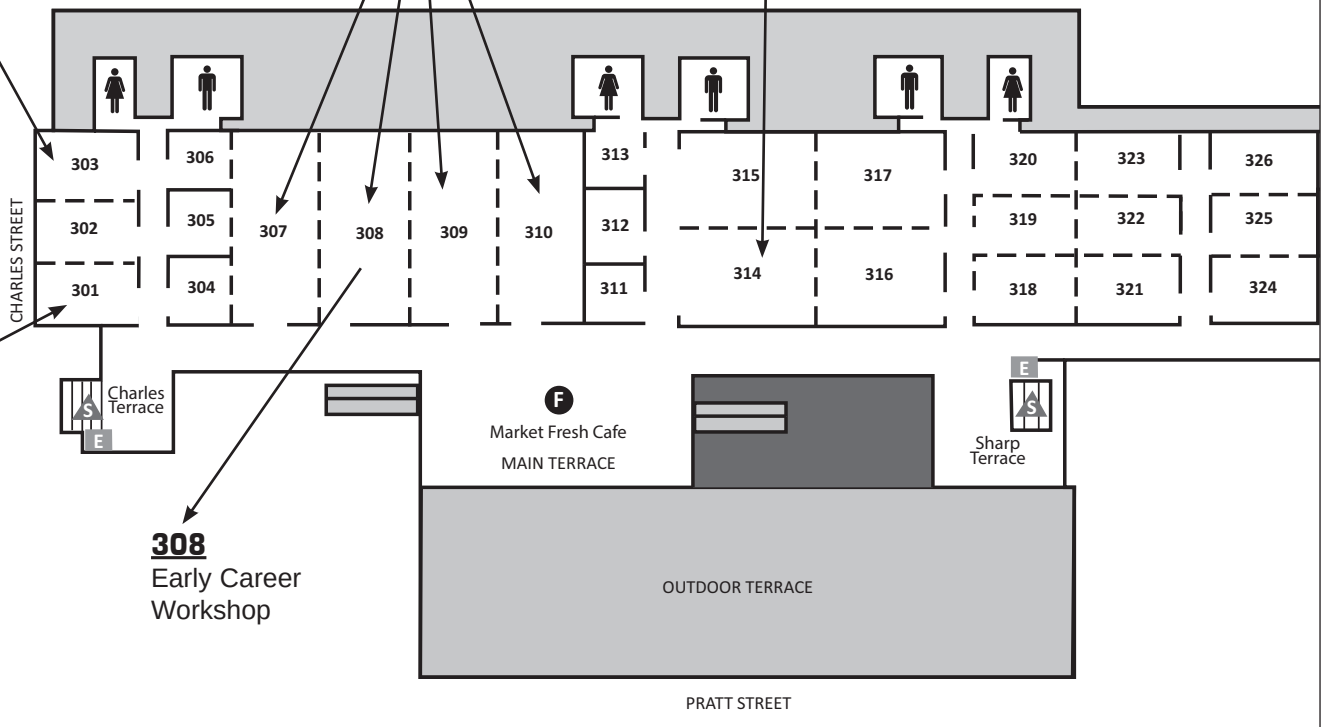


307-310
Panel Sessions
Oral Sessions
SIGS

314-315
Stakeholder
Luncheon

302-303
Press
Conference

Meet the
Experts
Luncheons



301
Early Career
Networking
Luncheon

Cultural
Diversity
Networking
Luncheon

308
Early Career
Workshop

WEDNESDAY May 11

10:00 a.m. - 11:30 a.m.	Press Conference *Room 302-303*
11:00 a.m. - 7:00 p.m.	Registration Open *Charles Street Lobby*
12:00 p.m. - 3:00 p.m.	Early Career Workshop *Room 308* *(Pre-registration Required)*
1:00 p.m. - 5:00 p.m.	Cultural Diversity Workshop *Room 307* *(Open - no pre-registration)*
5:00 p.m. - 6:00 p.m.	Cultural Diversity Meet & Greet Happy Hour *Hilton Baltimore, Johnson A-B* *(Open - no pre-registration)*
6:00 p.m. - 7:30 p.m.	Opening Reception *Hilton Baltimore, Holiday Ballroom*

THURSDAY May 12

7:30 a.m. - 6:00 p.m.	Registration Open *Charles Street Lobby*
8:00 a.m. - 9:00 a.m.	Coffee & Pastries *Hall A*
8:00 a.m. - 7:00 p.m.	Exhibits Open (see exhibitor list pages 185-186) *Hall A*
8:30 a.m. - 8:45 a.m.	Welcome from IMFAR Organizers *Hall B*
8:45 a.m. - 9:00 a.m.	INSAR President Address - Geraldine Dawson *Hall B*
9:00 a.m. - 10:00 a.m.	Keynote Address - Irva Hertz-Picciotto - Environment and Autism: Understanding Causes from an Epidemiologic Perspective *Hall B*
10:00 a.m. - 10:30 a.m.	Break *Hall A*
10:30 a.m. - 12:30 p.m.	Keynote Panel - Pushing the Boundaries for Understanding Environmental Influences on Neurodevelopment *Hall B*
10:30 a.m. - 12:30 p.m.	Panel - Transcranial Magnetic Stimulation (TMS) in Autism Spectrum Disorder *Room 307*
10:30 a.m. - 12:30 p.m.	Panel - Improving Early Access to Autism Screening and Specialized Services: Reaching Historically Underserved Communities *Room 308*
10:30 a.m. - 12:30 p.m.	Panel - Outcome Measures for Early Intervention Studies in Autism Spectrum Disorder *Room 309*
10:30 a.m. - 12:30 p.m.	Panel - Behavioral Interventions for Adults with ASD *Room 310*
11:30 p.m. - 1:30 p.m.	Poster Session - Brain Function (fMRI, fcMRI, MRS, EEG, ERP, MEG); Interventions Non-Pharmacologic - Preschool; Molecular and Cellular Biology; Social Cognition and Social Behavior; Other *Hall A*
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 *Room 302-303*
12:30 p.m. - 1:45 p.m.	Early Career Networking Lunch *Room 301*

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 - Gene-Environment Interactions that Contribute to ASD *Hall B*
2:40 p.m. - 3:30 p.m.	Oral Session 1B - Mouse Models of Environmental and Genetic Risk Factors in Autism Spectrum Disorder *Hall B*
1:45 p.m. - 2:35 p.m.	Oral Session 2A - Sensory and Motor Phenotypes Useful for Biomarkers and Parsing Heterogeneity *Room 307*
2:40 p.m. - 3:30 p.m.	Oral Session 2B - Early Dysmaturation of Sensory and Motor Systems as Critical Predictors of Symptom Severity *Room 307*
1:45 p.m. - 2:35 p.m.	Oral Session 3A - Variation in Early Trajectories of ASD *Room 308*
2:40 p.m. - 3:30 p.m.	Oral Session 3B - Early Markers of ASD: Laboratory and Community Studies *Room 308*
1:45 p.m. - 2:35 p.m.	Oral Session 4A - Sociodemographic Diversity and Screening, Diagnosis, and Clinical Presentation *Room 309*
2:40 p.m. - 3:30 p.m.	Oral Session 4B - International and Cross-cultural Perspectives on Screening and Diagnosis *Room 309*
1:45 p.m. - 2:35 p.m.	Oral Session 5A - Social Cognition and Social Behavior *Room 310*
2:40 p.m. - 3:30 p.m.	Oral Session 5B - New Frontiers in Infant Brain Functional Imaging *Room 310*
3:30 p.m. - 4:00 p.m.	Break *Hall A*
4:00 p.m. - 5:30 p.m.	Keynote Address - Lifetime Achievement Awardee - Christopher Gillberg *Hall B*
4:00 p.m. - 5:30 p.m.	INSAR Awards Ceremony - Lifetime Achievement, Advocate Award, Slifka / Ritvo Innovation, Young Investigator, Dissertation *Hall B*
5:30 p.m. - 7:00 p.m.	Poster Session - Cognition: Attention, Learning, Memory; Diagnostic, Behavioral and Intellectual Assessment I; Medical and Psychiatric Comorbidity; Service Delivery/Systems of Care *Hall A*
7:00 p.m. - 10:00 p.m.	INSAR Student Member Social *Pratt Street Ale House*

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 INSAR Cultural Diversity Committee and address an issue of cultural diversity (e.g., race, ethnicity, culture, socioeconomic status, low and middle income countries), a cross-cultural focus or includes a largely diverse population.

FRIDAY May 13

7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) - Implementing and Evaluating Community-Based Early Intervention (Returning SIG) *Room 307*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) - Moving Past the Categories: Creating Novel Re-conceptualizations of the ASD diagnosis and Phenotype *Room 308*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) - Older adults with ASD: The Consequences of Aging *Room 309*
7:15 a.m.- 8:45 a.m.	Special Interest Group (SIG) - Suicidality in Autism Spectrum Conditions *Room 310*
8:00 a.m. - 6:00 p.m.	Registration Open *Charles Street Lobby*
8:00 a.m. - 7:00 p.m.	Exhibits Open (see exhibitor list pages 185-186) *Hall A*
8:00 a.m. - 9:00 a.m.	Coffee & Pastries *Hall A*
8:45 a.m. - 9:00 a.m.	Welcome and Autism Speaks Update *Hall B*
9:00 a.m. - 10:00 a.m.	Keynote Address - Guoping Feng - Dissecting Synaptic and Circuitry Mechanisms of Autism *Hall B*
10:00 a.m. - 10:30 a.m.	Break *Hall A*
10:00 a.m. - 1:30 p.m.	Innovative Technology Demonstrations *Hall A*
10:30 a.m. - 12:30 p.m.	Keynote Panel - Recent Advances in Genetics and Neurobiology of Autism *Hall B*
10:30 a.m. - 12:30 p.m.	Panel - Growing Older with Autism; Cognition, Comorbidity and Quality of Life *Room 307*
10:30 a.m. - 12:30 p.m.	Panel - What Is Different about Females with Autism: Where Are We and Where Do We Need to Go? *Room 308*
10:30 a.m. - 12:30 p.m.	Panel - Perspectives on Pain in ASD: Perception, Physiology, and Behavior *Room 309*
10:30 a.m. - 12:30 p.m.	Panel - But It Worked so Well in the Lab! Measuring Implementation of Evidence-Based Practices for Children with Autism in Community Settings *Room 310*
11:30 a.m. - 1:30 p.m.	Poster Session - Animal Models; Genetics; Interventions Non-pharmacologic - School Age, Adolescent, Adult; Sensory, Motor, and Repetitive Behaviors and Interests *Hall A*
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 *Room 302-303*
12:30 p.m. - 1:45 p.m.	Cultural Diversity Networking Luncheon *Room 301*
12:30 p.m. - 1:45 p.m.	Autism Community Stakeholder Luncheon (open - no pre-registration) *Room 314-315*

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 - Perinatal Risk Factors *Hall B*
2:40 p.m. - 3:30 p.m.	Oral Session 6B - Environmental Exposures *Hall B*
1:45 p.m. - 2:35 p.m.	Oral Session 7A - White Matter Development in ASD *Room 307*
2:40 p.m. - 3:30 p.m.	Oral Session 7B - Brain Connectivity and Neural Networks in ASD *Room 307*
1:45 p.m. - 2:35 p.m.	Oral Session 8A - Early Detection and Access to Care *Room 308*
2:40 p.m. - 3:30 p.m.	Oral Session 8B - School and Community Deployed Randomized Trials *Room 308*
1:45 p.m. - 2:35 p.m.	Oral Session 9A - Preparing Youth with ASD for Adolescence and Beyond *Room 309*
2:40 p.m. - 3:30 p.m.	Oral Session 9B - Quality of Life, Internalizing Symptoms, & Employment *Room 309*
1:45 p.m. - 2:35 p.m.	Oral Session 10A - Exploring Cognitive Processes to Inform ASD Characteristics *Room 310*
2:40 p.m. - 3:30 p.m.	Oral Session 10B - Cognitive and Perceptual Influences on Learning and Daily Functioning *Room 310*
3:30 p.m. - 4:00 p.m.	Break *Hall A*
3:30 p.m. - 5:30 p.m.	Panel - Dissecting Comorbidity in ASD: Focus on Inattention, Hyperactivity and Impulsivity *Room 307*
3:30 p.m. - 5:30 p.m.	Panel - Translational Approaches to Abnormal Communication in ASD *Hall B*
3:30 p.m. - 5:30 p.m.	Panel - The Well-Being and Potential Service Needs of Siblings of Youth with Autism Spectrum Disorder *Room 308*
3:30 p.m. - 5:30 p.m.	Panel - From Animal Neurocognitive Trials to Humans: How Do We Find the Most Appropriate Outcome Measures and Trial Designs for Tuberous Sclerosis Complex and Other Genetic Disorders? *Room 309*
3:30 p.m. - 5:30 p.m.	Panel - Biomarker Development in the Era of Rdoc: Common and Distinct Mechanisms of Function and Dysfunction in ASD and Schizophrenia *Room 310*
5:30 p.m. - 7:00 p.m.	Poster Session - Adult Outcome: Medical, Cognitive, Behavioral, Communication and Language, Diagnostic, Behavioral & Intellectual Assessment II, Epidemiology *Hall A*

SATURDAY May 14

7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) - Anxiety in Autism: Mechanisms, Measurement, and Treatment (Returning SIG) *Room 307*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) - Bridging the Research/Application Gap: Incorporating Autistic Intellect in Research Design and Evaluation *Room 308*
7:15 a.m. - 8:45 a.m.	Special Interest Group (SIG) - Multiple Risk Factors for ASD: Genetic Predisposition and Environmental Influences (Returning SIG) *Room 309*
8:00 a.m. - 2:00 p.m.	Registration Open *Charles Street Lobby*
8:00 a.m. - 12:00 p.m.	Exhibits Open (see exhibitor list pages 185-186) *Hall A*
8:00 a.m. - 9:00 a.m.	Coffee & Pastries *Hall A*
8:45 a.m. - 9:00 a.m.	Welcome and Simons Foundation Update *Hall B*
9:00 a.m. - 10:00 a.m.	Keynote Address - Paul Shattuck - "Moving the Needle" with Life Course Research on Autism *Hall B*
10:00 a.m. - 10:30 a.m.	Break *Hall A*
10:30 a.m. - 12:30 p.m.	Keynote Panel - Life Course and Ecological Perspectives on Autism *Hall B*
10:30 a.m. - 12:30 p.m.	Panel - Towards Big Data Approaches in Eye Tracking *Room 307*
10:30 a.m. - 12:30 p.m.	Panel - Recent Advances in Statistical Methods for Autism Research *Room 308*
10:30 a.m. - 12:30 p.m.	Panel - Understanding Cultural Differences in Diagnostic and Treatment Services for Children with ASD *Room 309*
10:30 a.m. - 12:30 p.m.	Panel - Efforts Towards a More Cohesive Understanding of Anxiety in ASD: Correlates and Underlying Mechanisms *Room 310*
11:30 a.m. - 1:30 p.m.	Poster Session - Brain Structure (MRI, neuropathology); Early Development (< 48 months); Family Issues and Stakeholder Experiences; International and Cross-Cultural Perspectives; Interventions - Pharmacologic *Hall A*
12:30 p.m. - 1:45 p.m.	Lunch Break *On Your Own*
12:30 p.m. - 1:45 p.m.	INSAR Business Meeting *Room 307*
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 - Genetic Mouse Models of Syndromal Autism Spectrum Disorder *Hall B*
2:40 p.m. - 3:30 p.m.	Oral Session 11B - Integrated Approaches and Insight from Related Disorders *Hall B*
1:45 p.m. - 2:35 p.m.	Oral Session 12A - Natural Language Processing *Room 307*
2:40 p.m. - 3:30 p.m.	Oral Session 12B - Minimally Verbal Individuals with ASD *Room 307*
1:45 p.m. - 2:35 p.m.	Oral Session 13A - Identifying Autism Pathogenesis Using Human Induced Pluripotent Stem Cells (iPSCs) *Room 308*
2:40 p.m. - 3:30 p.m.	Oral Session 13B - Pharmaceutical Interventions for ASD *Room 308*
1:45 p.m. - 2:35 p.m.	Oral Session 14A - Overlooked Academic and Language Issues in the Treatment of ASD *Room 309*
2:40 p.m. - 3:30 p.m.	Oral Session 14B - Issues in Treatment of Anxiety *Room 309*
1:45 p.m. - 2:35 p.m.	Oral Session 15A - Mechanisms/Correlates of Psychopathology *Room 310*
2:40 p.m. - 3:30 p.m.	Oral Session 15B - Eating Behavior in ASD *Room 310*

IMFAR Annual Meeting
OPENING RECEPTION
6:00 – 7:30 p.m.
Hilton Baltimore, Holiday Ballroom
Open to all IMFAR Registrants

IMFAR 2016

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

Wednesday, May 11

3rd Annual IMFAR Early Career Workshop Development Pre-Conference Workshop

(pre-registration was required)

12:00 – 3:00 p.m. • Baltimore Convention Center, Room 308

The INSAR Board of Directors and the Student and Trainee Committee are hosting the 3rd annual early career workshop. This is a three-hour workshop focused on grant proposal reviews and special aims. Senior Review Officers from National Institutes of Heath will be presenting and conducting a mock grant review. INSAR faculty will lead small group discussions regarding the grant review process and development of specific aims. Reservations were accepted prior to the Meeting; registration and table assignments were confirmed via email.

Faculty providing grant writing expertise will include: NIH Deputy Director René Etcheberrigaray and NIH Senior Review Officers Michael Eissenstat, Carol Hamelink, and Vonda Smith; as well as faculty Susan Bookheimer, Petrus DeVries, Maureen Durkin, Patricia Howlin, Connie Kasari, Catherine Lord, David Mandell, Charles Nelson, Craig Newschaffer, Kevin Pelphrey, Cathy Rice, and Jeremy Veenstra-Vanderweele.

Cultural Diversity Pre-Conference Workshop

1:00 – 5:00 p.m. • Baltimore Convention Center – Room 307

The Cultural Diversity Committee will be hosting a Pre-Conference Workshop to highlight recent research on cultural diversity and ASD. The workshop will also provide a platform for attendees to collaborate and develop innovative strategies for future clinical and research projects that will have a global impact. All interested are welcome to attend. No pre-registration is required.

Cultural Diversity Meet & Greet

5:00 – 6:00 p.m. • Baltimore Hilton – Johnson A-B Room

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 at the Baltimore Hilton. This event is open to all IMFAR 2016 registrants.

Thursday, May 12

7th Annual IMFAR Student and Trainee Social

7:00 p.m. (directly following the poster session) • Pratt Street Ale House – 206 W Pratt Street, Baltimore, MD 21201

All INSAR Student and Trainee 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 a private space for this event. Come and enjoy some local Baltimore favorites and make connections with other student and trainee members! Food is free and alcoholic beverages are available for purchase. 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.

Early Career Networking Lunch

12:30 – 1:45 p.m. • Baltimore Convention Center – Room 301

Bring your lunch for an informal meeting of all early career IMFAR attendees. Early career is defined as "Faculty or non-academic professional autism researchers who are no longer students or early-stage postdocs who are still within 10 years of their terminal degree (Advanced postdocs, those beyond their first postdoc, are encouraged).

Thursday, May 12 and Friday, May 13

Student "Meet-the-Experts" Roundtable Luncheons

(pre-registration was required)

Lunch period: 12:30 – 1:45 p.m. each day • Baltimore Convention Center, Room: 302-303

Research assistants, student scientists and postdoctoral researchers, bring your lunch, enjoy light snacks, 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.

Thursday, May 14: Joseph Buxbaum, Francesca Happé, Geraldine Dawson, Giacomo Vivanti, Grace Baranek, James McPartland, Mayada Elsabbagh, Mikle South, Raphael Bernier, Rebecca Landa, Sara Jane Webb

Friday May 15: Craig Newschaffer, David Amaral, Guoping Feng, Heather Volk, Joseph Piven, Katarzyna Chawarska, Dani Fallin, Paul Shattuck, Irva Hertz-Picciotto

Friday, May 13

Community Advisory Committee (CAC) Community Stakeholder* Luncheon

12:30 – 1:45 p.m. • Baltimore Convention Center – Room 314-315

Autism stakeholders are invited to attend the 7th 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 CAC.

*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, Autism Speaks and Simons SPARK

Cultural Diversity Networking Luncheon

12:30 – 1:45 p.m. • Baltimore Convention Center – Room 301

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

IMFAR 2016 KEYNOTE SPEAKERS

Guoping Feng, PhD

Dr. Feng is the Poitras Chair Professor of Neuroscience in the McGovern Institute for Brain Research, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology. He is also an Institute Member of the Broad Institute of MIT and Harvard and the Director of Neurobiology at the Stanley Center for Psychiatric Research at Broad Institute. Dr. Feng's research is devoted to understanding the mechanisms regulating the development and function of synapses in the brain and how synaptic dysfunction may contribute to psychiatric disorders. Using genetically engineered animal models, Dr. Feng's laboratory combines cutting-edge technologies and multidisciplinary approaches to unravel the neurobiological mechanisms of autism, OCD and schizophrenia.

Dr. Feng has won numerous awards for his scientific achievements including Beckman Young Investigator Award, Gill Young Investigator Award, McKnight Neuroscience of Brain Disorders Award, McKnight Technology Innovation Award, and Hartwell Individual Biomedical Research Award.

Dr. Feng studied medicine at Zhejiang University School of Medicine in Hangzhou, China. He obtained his PhD from the State University of New York at Buffalo and postdoctoral training at Washington University in St. Louis. Prior to joining the faculty at MIT, he was a faculty member in the Department of Neurobiology, Duke University School of Medicine.

Irva Hertz-Picciotto, PhD

Dr. Hertz-Picciotto, Professor at the University of California Davis MIND Institute and Director of the NIH-funded UC Davis Environmental Health Sciences Center, is an internationally renowned environmental epidemiologist. She has over 300 scientific publications addressing environmental exposures, including metals, pesticides, air contaminants and endocrine disrupting compounds; their interactions with nutrition, genes or social factors; and their effects on pregnancy, the newborn, and child development. She directes CHARGE (*Childhood Autism Risk from Genes and Environment*), the first large, comprehensive population-based study of environmental factors in autism, and MARBLES (*Markers of Autism Risk in Babies – Learning Early Signs*) to search for early markers that will predict autism, starting in pregnancy. Hertz-Picciotto has also led several cohort studies of toxic chemicals and both pregnancy outcomes and early child development in Mexico, Chile, and eastern Europe. She has served on scientific advisory panels for the U.S. Environmental Protection Agency, the NIH National Toxicology Program, and the California Governor's Proposition 65 committee. She was elected President of two major professional epidemiology societies, and chaired four National Academy of Sciences/Institute of Medicine Panels on: *Agent Orange and Vietnam Veterans*, and *Breast Cancer and the Environment*.

Dr. Hertz-Picciotto has taught epidemiologic methods on four continents and mentored over 75 graduate students and postdoctoral scholars. In 2011, she received the Goldsmith Lifetime Achievement Award from the International Society for Environmental Epidemiology. Recently she co-founded (with the Learning Disabilities Association) Project TENDR (*Targeting Environmental Neuro-Development Risks*), a collaborative effort of scientists, clinicians, policy-makers and advocates that aims to decrease the incidence of neurodevelopmental disorders by reducing neurotoxicant exposures that contribute to them.

Paul Shattuck, PhD

Dr. Paul Shattuck, Director of the Life Course Outcomes Research Program at the A.J. Drexel Autism Institute, studies experiences and services that promote positive outcomes for people on the autism spectrum, their families and communities. Dr. Shattuck's published studies have been formally recognized by federal agencies and private advocacy groups as some the most important research in the field. Findings from this work have already helped shape our understanding of autism by equipping families and policy makers with accurate and timely "news they can use."

Dr. Shattuck's work has been funded by the National Institute of Mental Health, the National Science Foundation, the Institute for Education Sciences, Autism Speaks, the Emch Foundation, the Centers for Disease Control and Prevention, and the Organization for Autism Research. His research publications have appeared in high-impact scientific journals including *Pediatrics, Psychiatric Services, the Archives of Pediatrics and Adolescent Medicine, the American Journal of Public Health,* and the *Journal of the American Academy of Child and Adolescent Psychiatry*. He has also written op-ed pieces that have appeared in leading newspapers including the *New York Times*.

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.

Christopher Gillberg

Christopher Gillberg has been a Professor of Child and Adolescent Psychiatry at the University of Gothenburg, Sweden, since the mid 1980s. He heads the Gillberg Neuropsychiatry Centre. He is also a Chief Physician at the Sahlgrenska University Hospital and one of the world's most experienced, clinically active, child- and adolescent psychiatrists, with over 40 years of extensive clinical work in treatment of patients and families with complex psychiatric/neurodevelopmental problems.

In 1993 he was Fulbright Visiting Professor at New York University Medical School. He is also Visiting or Honorary Professor at the Universities of London, University College London (Institute of Child Health), University of Glasgow, University of Edinburgh, the Pasteur Institute, and Kochi University, Japan (where he is involved with the Japan Environment and Children Study/JECS). In the past he has been a Visiting Professor at Odense, Bergen (where he started and was PI on the Bergen Child Study), and San Francisco. Christopher Gillberg has published more than 650 peer-reviewed scientific papers (590 of which are currently on the NIH PubMed website) on autism, Asperger syndrome, ADHD, Tourette syndrome, intellectual disability, epilepsy, behavioural phenotype syndromes, depression, reactive attachment disorder, anorexia nervosa, and other areas relevant for children´s and adolescents' mental and neurological health. His research ranges from genetics and basic neuroscience through epidemiology and clinical phenomenology to treatments/interventions and outcome. He has written 33 books, which have been published in more than a dozen languages, several of which are standard textbooks in the field of Child and Adolescent Psychiatry and Autism. He is an honorary member of the Swedish National Autism Society and ADHD Society ("Attention"). He is a member of the Norwegian Academy of Sciences. He is the recipient of many national and international awards including the Fernström Prize for young researchers (1991), the Royal Medal of the Seraphim Order from the Swedish King (2009), and the Söderberg Prize in Medicine (2012). He supervises and has supervised more than 45 PhD students at the GNC and at other universities across the world. Christopher Gillberg is the most productive autism researcher in the world, and is on Thomson Reuter´s 2014 list of the world´s most influential researchers (all fields).

INSAR Advocate Award

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

Thomas R. Insel

Thomas R. Insel, MD, is a neuroscientist and psychiatrist at Verily (formerly Google Life Sciences) in Mountain View, CA. From 2002-2015, Dr. Insel served as Director of the National Institute of Mental Health (NIMH), the component of the National Institutes of Health (NIH) committed to research on mental disorders. In that role he also served as Chair of the Interagency Autism Coordinating Committee (IACC) as well as co-lead of the NIH BRAIN Initiative. Prior to serving as NIMH Director, Dr. Insel was Professor of Psychiatry at Emory University where he was founding director of the Center for Behavioral Neuroscience and director of the Yerkes Regional Primate Center in Atlanta. Dr. Insel's research has examined the neural basis of complex social behaviors, including maternal care and attachment. A member of the National Academy of Medicine, he has received numerous national and international awards and served in several leadership roles at NIH.

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.

Klaus Libertus	University of Pittsburgh

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 2015. These awards provide a stipend of $1,500 each.

Melissa Kirkovski	Deakin University
Catherine Manning	University of Oxford

Young Investigator Awards

Young Investigator Awards are given for the best biological and clinical empirical research papers published or in press in 2015, by an investigator who has been awarded their PhD or MD in the past seven years. These awards provide a stipend of $1,500 each.

Bonnie Auyeung	University of Edinburgh
Brittany Travers	University of Wisconsin Madison

Diversity Travel Awards

Diversity travel awards are given to individuals who are currently members of INSAR, studying 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 underrepresented 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.

Xenia Borue	Western Psychiatric Institute and Clinic
Alexandra Dowd	University of Texas at Austin
Fiona Howe	Anglia Ruskin University
Supriya Malik	University of Birmingham
Laura Morett	University of Pittsburgh
Agnieszka Rynkiewicz	Medical University of Gdansk, Department of Psychiatry
M. Pilar Trelles	Icahn School of Medicine at Mount Sinai
Megan Tudor	Yale Child Study Center
Varun Warrier	University of Cambridge
Zachary Williams	Yale Child Study Center
Gulnoza Yakubova	Duquesne University
Waganesh Zeleke	Duquesne University

Professionals from Low Income Countries Travel Awards

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

Petrus de Vries	University of Cape Town
Tawakalt Fagbayi	University of Lagos
Mohammed Habash	Leeds Metropolitan University
Sabri Herguner	NE University
Tosca-Marie Heunis	Stellenbosch University
Sowmyashree Kaku	NIMHANS
Loren Leclezio	University of Cape Town
Prahbhjot Malhi	Post Graduate Institute of Medical Education and Research
Shoba Meera	National Institute of Mental Health and Neurosciences
Joy Okpuzor	University of Lagos
Andrew Olagunju	College of Medicine, University of Lagos
Yewande Oshodi	University of Lagos College of Medicine
Motunrayo Oyelohunnu	Lagos University Teaching Hospital
Sydonnie Pellington	University of the West Indies
Jannatara Sheaf	Dhaka University
Adel Zeglam	Al-Khadra Teaching Hospital

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 2016 and who have not previously received an IMFAR Student Award.

Sebiha Abdullahi	Yale University
Dwaipayan Adhya	University of Cambridge
Danielle Baribeau	University of Toronto
Jamie Barstein	Northwestern University Feinberg School of Medicine
Catherine Bent	La Trobe University
Lauren Bishop-Fitzpatrick	Waisman Center-University of Wisconsin
Priscilla Burnham Riosa	York University
Lauren Bush	Northwestern Feinberg School of Medicine
Brian Castelluccio	University of Connecticut
Katherine Deckert	McPartland Lab- Yale Child Study Center
Marie Deserno	University of Amsterdam
Lauren DiNicola	Yale Child Study Center, Yale University School of Medicine
Claire Foster	Yale Child Study Center, Yale University
Shimrit Fridenson-Hayo	Bar-Ilan University
Valentina Garbarino	UTHSCSA
Whitney Guthrie	Florida State University Autism Institute
Sarah Hampton	University of Edinburgh
Alexandra Havdahl	The Norwegian Institute of Public Health
Susan Hedges	UNC Chapel Hill
Perrine Heymann	Yale Child Study Center
Emily Hilton	Yale Child Study Center
Alison Holbrook	University of California Los Angeles
Scott Jackson	University of St. Andrews
R. Joanne Jao Keehn	San Diego State University
Christina Kang	University of California, Los Angeles
Elizabeth Karp	University of Washington
Jana Kruppa	RWTH University Hospital
Jonathan Lai	York University
Michelle Lee	Northwestern University
Lauren Libero	UC Davis MIND Institute
Bianca Marro	Social Competence & Treatment Lab
Natasha Marrus	Washington University School of Medicine
Nicole M. McDonald	Yale University School of Medicine
T. A. McDonald	University of Wisconsin-Madison
Alana McVey	Marquette University
Anna Milgramm	Yale Child Study Center, Yale University School of Medicine
Lauren Miller	University of Connecticut
Bosiljka Milosavljevic	Institute of Psychiatry, Psychology and Neuroscience, King's College London
Emily Moulton	University of Connecticut
Kritika Nayar	Northwestern University
Devon Oosting	University of Massachusetts
Woon Ju Park	University of Rochester
Benjamin Rardin	Duke Center for Autism and Brain Development
Melanie Ring	City University London
Max Rolison	Yale University
Kimberly Schauder	University of Rochester
Lauren Schmitt	UT Southwestern Medical Center at Dallas
Elizabeth Schoen Simmons	University of Connecticut
Mark Shen	University of North Carolina
Julian Tillmann	King's College London
Tawny Tsang	University of California Los Angeles
Kathryn Unruh	Vanderbilt University
Wing Hang Wong	University of Kentucky
Yue Yu	Indiana University - Purdue University Indianapolis
Matthew Zajic	University of California at Davis MIND Institute

Early Career Workshop Travel Awards

Up to 10 Early 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.

Marika Coffman	Virginia Tech
Kristina Cottle	University of Utah
Laura Graham Holmes	University of Utah
Carla Golden	Icahn School of Medicine at Mount Sinai
Emily Hotez	The Graduate Center of the City University of New York
Emily Neuhaus	Seattle Children's Hospital
Ashley Stevens	University of Utah
Daniel Yang	Yale Child Study Center

*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/insar-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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Jason Wolff
Patricia Wright
Gulnoza Yakubova
Marshalyn Yeargin-Allsopp
Benjamin Yerys
Paul Yoder
Debra Zand
Dana Zavatkay
Janice Zeman

Welcome Address and INSAR President's Address

8:30 - Welcome from IMFAR Organizers
8:45 - INSAR President's Address
Hall B

Keynote Address

101 - Environment and Autism: Understanding Causes from an Epidemiologic Perspective
9:00 AM - 10:00 AM - Hall B

Speaker: Irva Hertz-Picciotto, Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA

By the end of the 20th century, very little rigorous research had been conducted to uncover the causes for autism, although a few studies provided compelling clues. This evidence pointed to several conclusions: first, that both genetic and environmental factors could play a role, and second, that the non-heritable causes might include both microbiologic (rubella, influenza) and pharmacologic (thalidomide, valproic acid) agents. Even as theories and myths have multiplied, the past decade has witnessed a new wave of increasingly rigorous epidemiologic research, some of it quite robust. This presentation will summarize: current knowledge on specific exposures in early prenatal or postnatal life that are potential or likely contributing factors to ASD; parallels with the literature on neurotoxins and cognitive impairment; and promising approaches for integrating environmental epidemiology with advances in molecular genetics. To meaningfully assess the current science, key concepts will be interwoven, including the challenges to causal inference from observational studies, and some under-appreciated implications of multifactorial causation. Reflections will be offered for future directions in research on etiologies of autism.

Keynote Panel Session

102 - Pushing the Boundaries for Understanding Environmental **Influences on Neurodevelopment**
10:30 AM - 12:30 PM - Hall B

Session Chair: I. Hertz-Picciotto, *Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA*

Often, attention is drawn to the potential for neurodevelopmental damage after a man-made disaster or accidental poisoning event, as occurred with PCBs, methyl-mercury, and most recently, with lead in Flint, Michigan. Those earlier tragedies, which led to serious mental and physical disabilities, served as warning signs and led to in-depth research on lower level exposures to the same substances, levels for which clinical signs are not obvious, yet large epidemiologic studies have now uncovered the adverse consequences. In this panel, Dr. Lanphear describes how low-level exposures have been dismissed, even when comparisons with known toxins or drugs that trigger problems at similarly low doses indicate reasons for concern. His presentation outlines what clinicians and scientists need to know about the biologic impacts from lead, arsenic, and other exposures in early development. Dr. Rauh uses novel approaches in a longitudinal study to examine how commonplace prenatal exposures may have long term impacts, and how imaging studies are showing changes that correlate with gestational pesticide exposures. Her team has also identified surprising neurologic outcomes in school-aged children. Dr. Engel takes a step back to consider various biomarkers and how to circumvent the common pitfalls in environmental epidemiology and strengthen the inferences that can be made with regard to causal relationships, based not only on consistency and replication across studies but also on temporality, mechanistic considerations, dose-response, and other attributes of observational studies. Dr. Fallin will lay out a framework for integrating research on genetics with environmental epidemiology to harness the power of -omics technology with large-scale well-designed epidemiologic studies to advance the science of etiology in its multi-factorial complexity.

10:30 102.001 Little Things Matter: The Impact of Toxins on the Developing Brain B. Lanphear, Simon Fraser University, Burnaby, BC, Canada

11:00 102.002 Atypical Neuropsychological Profiles, Attention Deficit Disorder, Brain Anomalies and Environmental Insecticide Exposure V. Rauh, Columbia University, New York, NY

11:30 102.003 Strengthening Inferences in Environmental Epidemiology S. M. Engel, Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC

12:00 102.004 The Power of "Omics" for Environmental Epidemiology of ASD M. D. Fallin, Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

Panel Session

103 - Transcranial Magnetic Stimulation (TMS) in Autism Spectrum Disorder
10:30 AM - 12:30 PM - Room 307

Session Chair: P. Enticott, *Deakin University, Melbourne, VIC, Australia*

Discussant: S. H. Mostofsky, *Johns Hopkins School of Medicine, Baltimore, MD*

Transcranial magnetic stimulation (TMS) is an emerging neuroscience technique that can be used to probe in vivo brain function. When applied repeatedly, TMS also has therapeutic applications in a number of psychiatric and neurological conditions, most notably depression. In recent years a number of research groups have begun to use TMS in autism spectrum disorder (ASD). This has included studies of neuroplasticity, neurochemical systems, and cortical excitability, but also the interventional use of repetitive TMS (rTMS) in an attempt to elicit a therapeutic response. In 2013, an international group of leading ASD and brain stimulation researchers formed a consensus group for TMS in ASD, and are currently working toward a coordinated approach for advancing basic and clinical science in this area. This panel will provide an overview from four different labs that conduct TMS research in ASD, and will feature both investigative and therapeutic studies.

10:30 103.001 Transcranial Magnetic Stimulation Provides a Means to Investigate Cortical Excitability and Plasticity in Autism Spectrum Disorder L. Oberman, Bradley Hospital, East Providence, RI

10:55 103.002 Transcranial Magnetic Stimulation Treatment: Focusing on Core Pathological Features of Autism Spectrum Disorders M. F. Casanova, Pediatrics and Biomedical Sciences, University of South Carolina School of Medicine, Greenville, SC

11:20 103.003 Repetitive Transcranial Magnetic Stimulation for Executive Function Deficits in Autism Spectrum Disorder and Effects on Brain Structure and Function S. H. Ameis, University of Toronto, Toronto, ON, Canada

11:45 103.004 Clinical Trials of Deep Repetitive Transcranial Magnetic Stimulation (rTMS) to Bilateral Dorsomedial Prefrontal Cortex in Autism Spectrum Disorder P. Enticott, Deakin University, Melbourne, VIC, Australia

12:10 Discussant

Panel Session
104 - Improving Early Access to Autism Screening and Specialized Services: Reaching Historically Underserved Communities
10:30 AM - 12:30 PM - Room 308

Session Chair: I. Giserman Kiss, *Department of Psychology, University of Massachusetts Boston, Boston, MA*

Discussant: A. S. Carter, *Department of Psychology, University of Massachusetts Boston, Boston, MA*

Presentations in this panel present strategies for identifying and addressing health disparities in the early detection of ASD, with a focus ranging from evaluating psychometric properties of specific screening tools (BITSEA, M-CHAT) in diverse populations to qualitative and systems-level visual analysis of multiple aspects of service delivery in community-based settings. The use of methods such as machine learning (M-CHAT) and receiver operating characteristic analyses (BITSEA) to optimize screener effectiveness highlights the availability of psychometrically-sound screening instruments for use in diverse populations. However, broader systems analyses of completing multi-stage screening, obtaining referrals for diagnostic evaluations, participating in diagnostic evaluations, and receiving services reveal challenges to implementation of ASD screening in community-based settings. Challenges include limited capacity of the service delivery system, family factors such as hesitance to acknowledge a child's problem, and finances. Implementation of ASD screening is best understood as a dynamic process that is shaped by organizational setting and mission and the unique characteristics of the populations being served. Therefore, it is important to document variations in practices designed to reach racial and ethnic minorities. Multiple contextual factors must be considered and multiple stakeholders engaged when supporting families attempting to navigate service delivery systems for children with possible ASD.

10:30 ▸104.001 Examining the Influence of Race and Gender on Autism Spectrum Disorder Screening Using the M-CHAT-R: A Self-Organizing Map Approach R. S. Factor[1], L. E. Achenie[2], A. Scarpa[1,3], M. V. Strege[1], D. L. Robins[4] and S. McCrickard[5], (1) Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Department of Chemical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, (3) Virginia Tech Center for Autism Research, Blacksburg, VA, (4) Drexel University, Philadelphia, PA, (5)Department of Computer Science, Virginia Polytechnic Institute and State University, Blacksburg, VA

10:55 ▸104.002 Using the BITSEA to Screen for ASD in Young Diverse Populations I. Giserman Kiss, F. Martinez-Pedraza and A. S. Carter, Department of Psychology, University of Massachusetts Boston, Boston, MA

11:20 104.003 Systems-Level Analysis of Implementing a Two Stage Screening Protocol for Autism Spectrum Disorders in a Community-Based Setting T. I. Mackie[1,2], R. C. Sheldrick[3], C. Tan[3] and A. S. Carter[4], (1)Institute for Health, Health Care Policy and Aging Research, Rutgers University, New Brunswick, NJ, (2)Department of Health Systems and Policy, School of Public Health, New Brunswick, NJ, (3)Department of Pediatrics, Tufts Medical Center, Boston, MA, (4)Department of Psychology, University of Massachusetts Boston, Boston, MA

11:45 ▸104.004 Service Providers› Perspectives of Obstacles to ASD-Specialized Services E. A. Karp, L. V. Ibanez, S. R. Edmunds, C. M. Harker and W. L. Stone, Department of Psychology, University of Washington, Seattle, WA

12:10 Discussant

Panel Session
105 - Outcome Measures for Early Intervention Studies in Autism Spectrum Disorder
10:30 AM - 12:30 PM - Room 309

Session Chair: C. Lord, *Weill Cornell Medical College, White Plains, NY*

Discussant: T. Charman, *Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom*

The field of ASD intervention research is in dire need of treatment response measures that adequately capture subtle changes in social communication behaviors. This panel presents recent findings from different research groups, introducing several advances in the development of outcome measures. We open with a presentation that reviews early intervention literature and underscores the need for the development of outcome measures. The next two presentations provide initial validity of a newly developed treatment response measure known as the Brief Observation of Social Communication Change (BOSCC) in two independent samples. We close with a presentation that extends this work to explore whether automated analyses of child vocalizations using the LENA voice recorder can be useful in identifying treatment response. Together this panel provides both an overview of our current challenges and of initial cutting-edge results for future researchers to expand upon. Implications for intervention research, behavioral phenotyping, and clinical practice will be discussed.

10:30 105.001 Evidence Synthesis: Outcome Measures for Early Intervention Studies in ASD H. McConachie, Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom

10:55 105.002 Preliminary Reliability and Validity of the Brief Observation of Social Communication Change (BOSCC) R. Grzadzinski[1], C. Carberry[2], A. Hamo[2], K. M. Frost[3], M. Heyman[4], C. Dick[4], S. Manevich[5], N. Hong[5], A. Pickles[6] and C. Lord[2], (1) Center for Autism and the Developing Brain, New York, NY, (2) Weill Cornell Medical College, White Plains, NY, (3)Center For Autism and the Developing Brain, White Plains, NY, (4)Center for Autism and the Developing Brain, White Plains, NY, (5)Psychiatry, Center for Autism and the Developing Brain, White Plains, NY, (6)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

11:20 105.003 A Preliminary Evaluation of the Brief Observation of Social Communication Change (BOSCC) As Candidate Outcome Measure in an Independent Dutch Sample M. K. J. Pijl[1,2], J. K. Buitelaar[2,3], N. N. J. Rommelse[2,4] and I. J. Oosterling[2], (1) Cognitive Neuroscience, Radboud University Medical Centre, Nijmegen, Netherlands, (2)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (3)Radboud University Medical Centre, Nijmegen, Netherlands, (4)Department of Psychiatry, Radboud University Medical Centre, Nijmegen, Netherlands

11:45 105.004 The LENA System in Clinical Trials: Evidence from Pivotal Response Treatment Studies A. Y. Hardan, Stanford University, Stanford, CA

12:10 Discussant

Panel Session
106 - Behavioral Interventions for Adults with ASD
10:30 AM - 12:30 PM - Room 310

Session Chair: C. M. Conner, *Department of Psychology, Virginia Tech, Blacksburg, VA*

While research on adult outcomes in ASD has been an area of recent focus, intervention research has not kept pace, leaving the field fairly uninformed regarding best practices. There is a critical need for treatment research given outcome data suggesting that adults often struggle with psychiatric comorbidity, unemployment and underemployment, and overall diminished quality of life. In this panel, four clinical scientists from different institutions present original research on intervention studies for adults with ASD with diverse targets. McVey and colleagues present data on a replication of the PEERS-Young Adult social skills intervention and investigate how the program affects related issues such as anxiety. Eack and colleagues present data on an RCT of Cognitive Enhancement Therapy, where social and nonsocial cognitive rehabilitation is conducted, and have found effects in both neurocognitive and social domains. Next, Schall and her colleagues present outcome data from Project Search, an intervention focusing on training and maintaining vocational work. Lastly, Conner presents data on an adapted mindfulness-based intervention for young adults with ASD focusing on emotion dysregulation. Together, these presentations present preliminary results of wide ranging intervention foci and implementation approaches. Collectively, the studies suggest that clinically significant change is possible for adults.

10:30 106.001 A Replication and Extension of the UCLA PEERS® for Young Adults Social Skills Intervention A. McVey, B. Dolan, K. A. Schohl, C. Caiozzo, E. Vogt and A. V. Van Hecke, Marquette University, Milwaukee, WI

11:00 106.002 Cognitive Enhancement Therapy for Adults with Autism Spectrum Disorder: Results from an Ongoing Randomized-Controlled Trial S. M. Eack[1,2], D. P. Greenwald[2], S. S. Hogarty[2], M. Y. Litschge[2], S. S. Porton[2], C. A. Mazefsky[2] and N. J. Minshew[2,3], (1)School of Social Work, University of Pittsburgh, Pittsburgh, PA, (2)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (3)Department of Neurology, University of Pittsburgh School of Medicine, Pittsburgh, PA

11:30 106.003 The Impact of Project Search Plus ASD Supports on Employment and Social Responsiveness in 18 to 21 Year Old Youth with ASD C. M. Schall, Virginia Commonwealth University, Richmond, VA

12:00 106.004 Mindfulness-Based Therapy for Adults with Autism Spectrum Disorder: A Pilot Study C. M. Conner[1,2] and S. W. White[3], (1)Department of Psychology, Virgina Tech, Blacksburg, VA, (2) Department of Psychology, Virginia Tech, Blacksburg, VA, (3) Virginia Polytechnic Institute and State University, Blacksburg, VA

Poster Session
107 - Brain Function (fMRI, fcMRI, MRS, EEG, ERP, MEG)
11:30 AM - 1:30 PM - Hall A

1 107.001 22q11.2 Deletion Syndrome Is Associated with Altered Resting State Networks C. M. Pretzsch[1], E. Daly[2], C. M. Murphy[2], C. Ecker[2], G. M. McAlonan[3], M. Gudbrandsen[2], R. H. Wichers[2], L. Kushan[4], C. Bearden[5], M. Craig[2] and D. G. Murphy[2], (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2) Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Science, IoPPN, KCL, London, United Kingdom, (4)Semel Institute for Neuroscience and Human Behavior, UCLA, Los Angeles, CA, (5)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA

2 107.002 A New Open-Source Tool for EEG Source Reconstruction in Infants C. O'Reilly[1], M. Elsabbagh[2] and T. B. Team[3], (1)Blue Brain Project, École Polytechnique Fédérale de Lausanne, Geneva, Switzerland, (2)McGill University, Montreal, PQ, Canada, (3)Birkbeck, University of London, London, United Kingdom

3 107.003 A Pharmacological MRI Study of Response Inhibition in Autism Spectrum Disorder Using Tianeptine R. H. Wichers[1], J. L. Findon[1], E. Daly[1], K. Rubia[2], C. Ecker[1] and D. G. Murphy[1], (1)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2) Institute of Psychiatry Psychology and Neuroscience, King's College London, London, United Kingdom

4 107.004 Aberrant Brain Network Dynamics in Childhood Autism and Its Relation to Behavioral Inflexibility K. Supekar, S. Ryali and V. Menon, Stanford University School of Medicine, Stanford, CA

5 107.005 Abnormalities in the Steady-State Contrast Response of Adults with High-Functioning Autism D. H. Baker and G. Vilidaite, Department of Psychology, University of York, York, United Kingdom

6 107.006 Adaptive Neural Mechanisms in Individuals with Autism for Integrating Multisensory Real-World Stimuli P. J. Webster[1], C. Frum[1], C. Bauer[1], A. Kurkowski-Burt[2], N. Mardmomen[3], M. Gray[4] and J. W. Lewis[1], (1)Neurobiology & Anatomy, West Virginia University, Morgantown, WV, (2)Occupational Therapy, West Virginia University, Morgantown, WV, (3) Biology, West Virginia University, Morgantown, WV, (4)Psychology, West Virginia University, Morgantown, WV

7 107.007 Altered Connectivity Between Brain Regions Involved in Social Body Motion (BM) Perception in Adults with Autism: A fcMRI Study P. Duret[1,2], M. V. Kujala[3], G. Riot[4], S. Sonié[2], D. Meunier[2], N. Georgieff[4], M. A. Hénaff[2], L. Mottron, M.D.[1], P. Fonlupt[2] and C. Schmitz[2], (1)Centre d'Excellence en Troubles Envahissants du Développement, Montréal, QC, Canada, (2)Lyon Neuroscience Research Center, Lyon, France, (3) Department of Equine and Small Animal Medicine, Faculty of Veterinary Medicine, Helsinki, Finland, (4)CH Le Vinatier, Bron, France

8 107.008 Altered Recruitment of the Brain›s Reading Network in Children with Autism H. Bednarz, J. O. Maximo, D. Murdaugh and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL

9 107.009 Altered Timing of Event Related Potentials in the Praxis Network of Children with High Functioning Autism D. McAuliffe[1], T. L. Johnson[2], M. Hallett[3], N. E. Crone[4], A. Pillai[1], S. H. Mostofsky[5] and J. B. Ewen[6], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Neurology and Developmental Medicine, Kennedy Krieger Institute, Baltimore, MD, (3) National Institute of Neurological Disorders and Stroke, Bethesda, MD, (4) Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, (5)Johns Hopkins School of Medicine, Baltimore, MD, (6)Kennedy Krieger Institute/JHUSOM, Baltimore, MD

10 107.010 Altered Working Memory-Related Brain Activation and Connectivity in Adolescents with Autism Spectrum Disorder K. R. Bellesheim[1], J. P. Stichter[2], K. E. Bodner[1,3], J. L. Sokoloff[1] and S. E. Christ[1], (1)University of Missouri, Columbia, MO, (2)Department of Special Education, University of Missouri, Columbia, MO, (3)Department of Health Psychology, Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO

11 107.011 Amygdala Hyperconnectivity during Adaptive Executive Control of Social Information Processing in Autism Spectrum Disorders (ASD) Children J. B. Cherry[1], X. You[2], R. Ludlum[3], W. D. Gaillard[2], L. Kenworthy[4] and C. J. Vaidya[5], (1)Psychology, Georgetown University, Washington, DC, (2)Children's Research Institute, Childrens National Medical Center, Washington, DC, (3)Department of Psychology, Georgetown University, Washington, DC, (4)Children's Research Institute, Children's National Medical Center, Rockville, MD, (5)Georgetown University, Washington, DC

12 107.012 An Analysis of Resting EEG Data in Infants at High-Risk for Developing ASD T. Y. Kim, A. Naples, M. Rolison and J. McPartland, Child Study Center, Yale School of Medicine, New Haven, CT

13 107.013 An Effective Connectivity Approach to Autism Spectrum Disorders S. Vettori[1,2,3], D. Marinazzo[2], B. Boets[1,3] and R. Siugzdaite[2,4], (1)Child and Adolescent Psychiatry, KU Leuven, Leuven, Belgium, (2) Data analysis Department, Ghent University, Gent, Belgium, (3)Leuven Autism Research consortium (LAuRes), KU Leuven, Leuven, Belgium, (4) Experimental psychology department, University of Ghent, Ghent, Belgium

14 107.014 Attention and Brain Response during Simulated Social Interactions in ASD A. Naples, M. Rolison, J. H. Foss-Feig, K. K. Stavropoulos, T. Winkelman and J. McPartland, Child Study Center, Yale School of Medicine, New Haven, CT

15 107.015 Atypical Functional Heterogeneity of the Right Temporo-Parietal Junction in Autism Spectrum Disorders D. Moraczewski[1] and E. Redcay[2], (1)University of Maryland, College Park, MD, (2)Department of Psychology, University of Maryland, College Park, MD

16 107.016 Atypical Intrinsic Functional Connectivity of Core Face Perception System Is Associated with Symptom Severity in ASD W. Zhao[1], I. Fishman[2], R. J. Jao Keehn[2] and R. A. Müller[2], (1)Psychology, San Diego State University, San Diego, CA, (2)San Diego State University, San Diego, CA

17 107.017 Atypical Novelty Detection ERP Responses Associated with Genetic but Not Idiopathic ASD Etiologies C. M. Hudac, T. DesChamps, S. J. J. Webb and R. Bernier, University of Washington, Seattle, WA

18 107.018 Atypical Pattern of Frontal EEG Asymmetry to Direct Gaze in Young Children with Autism Spectrum Disorder A. Kylliainen[1], T. M. Helminen[1], J. Lauttia[1], S. Yrttiaho[1], K. Eriksson[2], J. K. Hietanen[3] and J. M. Leppänen[2], (1)University of Tampere, Tampere, Finland, (2)School of Medicine, University of Tampere, Tampere, Finland, (3)School of Social Sciences and Humanities / Psychology, University of Tampere, Tampere, Finland

19 107.019 Atypical Pupillary Light Reflex in 2 – 6 Year Old Children with Autism Spectrum Disorders D. M. Dinalankara[1], J. H. Miles[2], T. N. Takahashi[3] and G. Yao[1], (1)University of Missouri, Columbia, MO, (2)Thompson Center at the University of Missouri, Columbia, MO, (3) University of Missouri Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO

20 107.020 Auditory Statistical Learning in Children with ASD Relates to Verbal IQ: An ERP Study C. DiStefano[1], E. Baker[2], J. McCracken[3] and S. S. Jeste[4], (1)University of California, Los Angeles, Los Angeles, CA, (2) UCLA Center for Autism Research and Treatment, Los Angeles, CA, (3) UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

21 107.021 Baseline EEG Recordings in Young Children with ASD: Stimulus Type Matters X. A. Tran[1], E. Baker[2], J. Frohlich[3], S. Huberty[4] and S. S. Jeste[3], (1)Semel Institute of Neuroscience and Human Behavior, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA, (2)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (3)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (4)Psychiatry and Biobehavioral Sciences, UCLA Center for Autism Research and Treatment, Los Angeles, CA

22 107.022 Brain Dopamine D1 Receptor Binding in Young Adults with Autism Spectrum Disorder K. Suzuki[1], K. Nakamura[2], Y. Ouchi[1], K. Takebayashi[1], M. Yokokura[1], K. Nakaizumi[1], M. Tsujii[3], T. Sugiyama[1] and N. Mori[1], (1)Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Hirosaki University Graduate School of Medicine, Aomori, Japan, (3)Chukyo University, Toyota, Japan

23 107.023 Cerebellar Contributions to Whole-Brain Resting-State Networks: A Combined Tdcs-Fmri Study A. M. D'Mello[1], P. E. Turkeltaub[2,3] and C. J. Stoodley[1], (1)American University, Washington, DC, (2) Georgetown University Medical Center, Washington, DC, (3)Research Division, MedStar Rehabilitation Hospital, Washington, DC

24 107.024 Cerebellar Metabolite Levels and Social-Communication Impairments in Twins with Autism Spectrum Disorder J. P. Hegarty II[1], M. Gu[1], D. Spielman[1], S. Cleveland[1], J. Hallmayer[1], L. Lazzeroni[1], M. Raman[1], T. W. Frazier[2], J. M. Phillips[1], A. L. Reiss[1] and A. Y. Hardan[1], (1)Stanford University, Stanford, CA, (2)Cleveland Clinic Center for Autism, Cleveland, OH

25 107.025 Change of Neurophysiological Correlates of Biological Motion Processing By the Group Based SOSTA-FRA Intervention in High Functioning Children and Adolescents with ASD C. Luckhardt[1], A. Kröger[1], S. Bender[2] and C. M. Freitag[3], (1)Autism Research and Intervention Center of Excellence Frankfurt, Goethe University Hospital, Frankfurt, Germany, (2)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital Cologne, Cologne, Germany, (3)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Johann Wolfgang Goethe-University Frankfurt/Main, Frankfurt, Germany

26 107.026 Characterizing the Cortical Basis of Motor Impairments in ASD Using EEG S. T. Major[1], B. P. Rardin[1], R. Bernier[2] and M. Murias[3], (1)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (2)University of Washington, Seattle, WA, (3)Duke University, Durham, NC

27 107.027 Children with ASD Fail to Downregulate Visual Cortex during Auditory Processing R. J. Jao Keehn[1], S. Sanchez[1], C. R. Stewart[1], W. Zhao[1], E. Grenesko[1], B. Keehn[2] and R. A. Müller[1], (1)San Diego State University, San Diego, CA, (2)Speech, Language, and Hearing Sciences, Purdue University, West Lafeyette, IN

28 107.028 Common CNTNAP2 Variant Relates to Altered Functional Connectivity of the Striatum K. E. Lawrence[1], L. M. Hernandez[2], D. H. Geschwind[3], S. Y. Bookheimer[1] and M. Dapretto[1], (1) University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)Department of Neurology, UCLA, Los Angeles, CA

29 107.029 DNA Methylation of the Oxytocin Receptor Gene Predicts Variability in Brain Response to Social Stimuli Among Children with Autism Spectrum Disorder A. Jack[1], T. S. Lillard[2], D. R. Oosting[1,3], J. P. Morris[2], K. Pelphrey[1] and J. J. Connelly[2], (1)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2)Department of Psychology, University of Virginia, Charlottesville, VA, (3)Psychology, University of Massachusetts, Boston, MA

30 107.030 Default Mode Network - Insight into Disruptive Behaviour in Autism Spectrum Disorder J. Lei[1,2], P. E. Ventola[1], E. Dayan[3], K. Pelphrey[1] and D. Yang[1], (1)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2)Psychology and Language Sciences, University College London, London, United Kingdom, (3)National Institute of Neurological Disorders and Stroke, National Institutes of Health, Human Cortical Physiology Section, Bethesda, MD

31 107.031 Developmental Changes in Learning to Predict Others› Preferences: Implications for Autism Spectrum Disorder G. Rosenblau[1], C. W. Korn[2], B. C. Vander Wyk[1] and K. Pelphrey[1], (1)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2)Department of Psychiatry, Psychotherapy, and Psychosomatics, University of Zurich, Zurich, Switzerland

32 107.032 Differences in Auditory Evoked Potentials Between Children with Autism Spectrum Disorder with Versus without Language Impairment: A Methodological Comparison E. Kwok, E. Dovigi and J. Oram Cardy, Communication Sciences and Disorders, University of Western Ontario, London, ON, Canada

33 107.033 Differential Engagement of Prefrontal Cortex Underlies Local Bias in Children with Autism A. J. Herringshaw, S. L. Kumar and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL

34 107.034 Dynamic Whole-Brain Functional Connectivity and Connectopathy in Autism: A Population-Based Neuroimaging Study of Brain Development R. L. Muetzel[1], L. M. Blanken[1], B. Rashid[2], R. Miller[3], F. Verhulst[4], H. Tiemeier[4], V. Calhoun[3] and T. J. White[5], (1)Child and Adolescent Psychiatry, Erasmus Medical Center - Sophia Children's Hospital, Rotterdam, Netherlands, (2)Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM, (3)University of New Mexico, Albuquerque, NM, (4)Department of Child and Adolescent Psychiatry/ Psychology, Erasmus MC-Sophia, Rotterdam, Netherlands, (5)Erasmus University Medical Centre, Rotterdam, Netherlands

35 107.035 EEG Findings Processed By Next Generation Artificial Adaptive Systems Can Perfectly Distinguish ASD Children from Typically Developing Children: A Proof of Concept Pilot Study E. Grossi[1], M. P. Buscema[2] and C. Olivieri[1], (1)Autism Unit, Villa Santa Maria Institute Neuropsychiatric Rehabilitation Center, Tavernerio, Italy, (2)Semeion Research Centre of Sciences of Communication, Roma, Italy

36 107.036 ERP Correlates of Inhibitory Control and Theory of Mind Are Associated with Each Other and with ASD Symptoms A. D. Nijhof, M. Brass and J. R. Wiersema, Ghent University, Ghent, Belgium

37 107.037 Effects of Age and Social Function on Voice-Processing Systems in Autism A. E. Baker[1], A. Padmanabhan[1], P. Odriozola[2], D. A. Abrams[2] and V. Menon[3], (1)Stanford University School of Medicine, Palo Alto, CA, (2)Stanford University, Palo Alto, CA, (3)Stanford University School of Medicine, Stanford, CA

38 107.038 Electrophysiological Signatures of Visual Statistical Learning in Three-Month Old Infants at Risk for Autism Spectrum Disorder A. Marin[1], T. Hutman[2], M. Dapretto[3], C. Ponting[1], S. P. Johnson[4] and S. S. Jeste[1], (1)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)UCLA, Los Angeles, CA

39 107.039 Engagement of Language and Theory-of-Mind Networks during Self-Other Processing in Autism Spectrum Disorders E. Sartin[1], C. E. Stevens[2], C. L. Klein[3], M. R. Klinger[4], L. G. Klinger[5] and R. K. Kana[6], (1) UAB, Trussville, AL, (2)Psychology, University of Alabama at Birmingham, Birmingham, AL, (3)Psychology, Marietta College, Marietta, OH, (4) University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (6)University of Alabama at Birmingham, Birmingham, AL

40 107.040 Evaluation of Mismatch Negativity As Biomarker for Language Impairment in Autism Spectrum Disorder H. L. Green[1], L. C. Goodwin[2] and K. Froud[3], (1)Columbia University, New York, NY, (2) Columbia University, Staten Island, NY, (3)Biobehavioral Sciences, Columbia University Teaches College, New York, NY

41 107.041 Evaluation of the Pupillary Light Reflex As a Potential Biomarker in Children with Autism Spectrum Disorder V. Y. Kang[1,2], M. Pereverzeva[1], S. T. Geller[1,2], S. Lo[1], L. V. Ibanez[1,2], W. L. Stone[1,2] and S. O. Murray[1], (1)Department of Psychology, University of Washington, Seattle, WA, (2)UW READi Lab, Seattle, WA

42 107.042 Evidence for Early Divergence of Thalamocortical Networks in High-Risk Siblings of Individuals with Autism Spectrum Disorder (ASD) A. Nair[1], T. Tsang[2], C. Ponting[3], J. Liu[2], S. Y. Bookheimer[2] and M. Dapretto[2], (1)Psychiatry, University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

43 107.043 Examination of the Role of Social and Sensory Factors in Atypical Speech Processing in Autism Spectrum Disorder L. Latterner, J. Pandey, J. E. Maldarelli, R. T. Schultz and J. McCleery, The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

44 107.044 Exploring Atypical Connectivity in Autism Using Graph Theory and Electroencephalography R. A. Bethlehem[1], M. G. Kitzbichler[2], J. Freyberg[1], E. Ruzich[1], S. K. Crockford[1] and S. Baron-Cohen[1], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychiatry, Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom

45 107.045 Functional Connectivity in the Salience Network Differs Between Infants at High- and Low-Risk for ASD T. Tsang[1], C. Ponting[2], R. McCarron[1], K. E. Lawrence[1], S. Y. Bookheimer[1] and M. Dapretto[1], (1) University of California, Los Angeles, Los Angeles, CA, (2)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

46 107.046 Functional Near-Infrared Spectroscopy of Neural Responses to Speech at Three Months N. M. McDonald[1], J. A. Eilbott[2], H. M. Fichtenholtz[3], M. L. Braconnier[4], C. A. Wall[5], C. A. Paisley[4] and K. Pelphrey[4], (1)Yale Child Study Center, New Haven, CT, (2)Yale University, New Haven, CT, (3)Yale University School of Medicine, West Haven, CT, (4)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (5) Yale Child Study Center, Yale University School of Medicine, New Haven, CT

47 107.047 Hemispheric Differences in Auditory Complexity Processing in ASD L. A. Sand[1], E. Redcay[2], T. Zeffiro[3], F. Samson[4] and D. J. Bolger[1], (1)Human Development & Quantitative Methodology, University of Maryland, College Park, MD, (2)Department of Psychology, University of Maryland, College Park, MD, (3)Neurometrika, Potomac, MD, (4) Department of Psychology, University of Western Ontario, London, ON, Canada

48 107.048 Increased Gamma Oscillatory Activity within the Salience Network: Relationship to Social and Attention Functioning in ASD T. Andersen[1], A. M. Flores[1], C. Swick[1], J. Brennan[2], I. Kovelman[2], S. Bowyer[3] and R. Lajiness-O'Neill[1], (1)Eastern Michigan University, Ypsilanti, MI, (2) University of Michigan, Ann Arbor, MI, (3)Henry Ford Hospital, Detroit, MI

49 107.049 Increased Trial-By-Trial Neural Variability Associated with Increased Autistic Traits in Healthy Adults M. H. Puglia, J. J. Connelly and J. P. Morris, Department of Psychology, University of Virginia, Charlottesville, VA

50 107.050 Integrated Study of Joint Attention in Autism Spectrum Disorders By High-Density EEG and Eye-Tracking L. Billeci[1,2], A. Narzisi[2], A. Tonacci[3], S. Calderoni[4], G. Pioggia[5] and F. Muratori[2], (1)Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy, (2) IRCCS Stella Maris Institute, Pisa, Italy, (3)Clinical Physiology Institute - National Research Council, Pisa, PI, Italy, (4)Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute, Pisa, Italy, (5)National Research Council of Italy (CNR), Pisa, PI, Italy

51 107.051 Interactive Social Neuroscience to Assess Reward Processing in the Broad Autism Phenotype: An Event-Related Potential Study M. Rolison[1], A. Naples[1], J. Herrington[2] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

52 107.052 Investigation of Face Processing in Autistic Spectrum Disorder (ASD) for the Development of Clinically Useful Biomarkers: An Electroencephalographic Approach N. Mc Devitt[1], L. Gallagher[2] and R. B. Reilly[3], (1)Trinity College Dublin, Dublin, Ireland, (2)Psychiatry, Trinity College Dublin, Dublin, Ireland, (3)Department of Engineering, Trinity College Dublin, Dublin, Ireland

53 107.053 Mental Imitation and Mirroring in Children with Autism J. O. Maximo, R. J. Donnelly, H. M. Wadsworth and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL

54 107.054 Neural Adaptation during Learning in ERPs to Visual Target Detection in Children with ASD S. E. Schipul[1], G. T. Baranek[2], A. M. Campbell[1] and A. Belger[1], (1)University of North Carolina, Chapel Hill, NC, (2)UNC Chapel Hill, Chapel Hill, NC

55 107.055 Neural Bases of Hierarchical Shape Processing in Autism Spectrum Disorder T. DeRamus[1], K. N. Rody[2], S. L. Kumar[3] and R. K. Kana[3], (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Psychology, University of Alabama Birmingham, Birmingham, AL, (3)University of Alabama at Birmingham, Birmingham, AL

56 107.056 Neural Correlates of Sociocognitive Processing in Infants with Congenital Visual Impairment N. J. Dale[1], M. O'Reilly[2], E. Sakkalou[2], A. Salt[2] and M. De Haan[3], (1)Clinical Neurosciences, UCL Institute of Child Health/ Great Ormond Street Children's Hospital, London, United Kingdom, (2)Clinical Neurosciences, UCL Institute of Child Health, London, United Kingdom, (3)Developmental Cognitive Neuroscience, UCL Institute of Child Health, London, United Kingdom

57 107.057 Neural Mechanisms of Emotion Regulation with Circumscribed Interests in Adults with ASD L. Antezana, M. Coffman and J. A. Richey, Virginia Tech, Blacksburg, VA

58 107.058 Neural Mechanisms of Uncertainty Processing in Children with Autism Spectrum Disorder C. R. Damiano[1,2], E. Hanna[3], D. Cockrell[4], K. L. Dunlap[5], S. Miller[1], M. L. Kovac[1], L. Turner-Brown[6], J. Kinard[1] and G. S. Dichter[1], (1)Carolina Institute for Developmental Disabilities, University of North Carolina School of Medicine, Chapel Hill, NC, (2)Department of Psychiatry and Behavioral Sciences, Duke University School of Medicine, Durham, NC, (3)Department of Psychology and Neuroscience, Duke University, Durham, NC, (4)Virginia Tech Carilion School of Medicine and Research Institute, Roanoke, VA, (5)Vanderbilt Kennedy Center, Nashville, TN, (6)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

59 107.059 Neurodevelopmental Indices of Theory of Mind and Their Relations to Everyday Social Functioning C. E. Mukerji[1,2], S. H. Lincoln[1,2], A. V. Torricelli[3], N. Kleeman[1], S. Hasselmo[1], C. I. Hooker[4] and C. A. Nelson[1,2], (1)Harvard University, Cambridge, MA, (2)Boston Children's Hospital/Harvard Medical School, Boston, MA, (3)Rutgers University, New Brunswick, NJ, (4)Rush University Medical Center, Chicago, IL

60 107.060 Neuromodulation Therapy Integrating Prefrontal rTMS and Neurofeedback for the Treatment of Autism E. M. Sokhadze[1], A. S. El-Baz[2], A. Tasman[2], Y. WANG[3] and M. F. Casanova[4], (1)Biomedical Sciences, University of South Carolina School of Medicine, Greenville, SC, (2)University of Louisville, Louisville, KY, (3)State Key Laboratory of Cognitive Neuroscience and Learning,BeiJing Normal University, Beijng, China, (4)Pediatrics and Biomedical Sciences, University of South Carolina School of Medicine, Greenville, SC

61 107.061 Object Selectivity or Motivational Relevance: Fusiform Activation to Faces and Food K. M. Adamson[1], C. Hyde[1,2] and V. Troiani[1], (1)Geisinger Autism & Developmental Medicine Institute, Lewisburg, PA, (2)Bucknell University, Lewisburg, PA

62 107.062 Pending M. A. Reiter[1], K. Kolodziej[2], T. L. Richards[2], N. M. Corrigan[2], K. Sambrook[1], T. St. John[3], M. Reilly[1], E. Shankland[1], R. A. Edden[4], S. Dager[5] and N. M. Kleinhans[2], (1)Radiology, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3) University of Washington Autism Center, Seattle, WA, (4)Johns Hopkins University School of Medicine, Baltimore, MD, (5)University of Washington School of Medicine, Seattle, WA

63 107.063 Phase-Locked Frequency Contributions to Executive Functioning in Children with and without ASD T. Clarkson[1], A. R. Bhandarkar[2] and S. Faja[3], (1)Boston Children's Hospital: Harvard Med School, Boston, MA, (2)Laboratories of Cognitive Neuroscience, Boston Children's Hospital: Harvard Med School, Boston, MA, (3)Boston Children's Hospital/Harvard Medical School, Boston, MA

64 107.064 Phenotypic Plasticity in the Cingulate Cortex in Autism Spectrum Disorders: Target on Etiology? C. D. Jimenez de Espinoza[1], F. Marcano[2] and J. L. González-Mora[3], (1)San Cristobal de La Laguna, Universidad de La Laguna, Lab. Neuroquímica y Neuroimagen., Santa Cruz de Tenerife, Spain, (2)Research units ULL, Magnetic Resonance Center IMETISA, La Laguna, Spain, (3)Neurochemistry and neuroimage laboratorie, University of La Laguna, La Laguna, Spain

65 107.065 Pivotal Response Treatment Increases Neural Processing Efficiency of Faces in Children with Autism Spectrum Disorder Z. J. Williams[1], M. Rolison[2], K. K. Stavropoulos[2], J. H. Foss-Feig[2], S. M. Malak[1], A. Naples[2], K. Pelphrey[1], P. E. Ventola[1] and J. McPartland[2], (1) Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2) Child Study Center, Yale School of Medicine, New Haven, CT

66 107.066 Processing of Facial Expressions and Their Mental Imagery in ASD: An EEG Study with Feasibility Analysis for a Neurofeedback Approach M. Simoes[1], J. Andrade[1], R. Monteiro[1], S. Mouga[1], P. Carvalho[1], G. G. Oliveira[2] and M. Castelo-Branco[1], (1) University of Coimbra, Coimbra, Portugal, (2)Hospital Pediátrico de Coimbra, Coimbra, Portugal

67 107.067 Regions of the Cerebellum Show Decreased Grey Matter Volume in Women with Autism Spectrum Disorder A. M. Viruly[1,2], E. Daly[1], M. Gudbrandsen[1], M. C. Lai[3], C. M. Murphy[1], M. V. Lombardo[3], A. N. Ruigrok[3], R. H. Wichers[1], V. P. Giampietro[1], M. Craig[1], M. J. Brammer[4], S. Baron-Cohen[3], A. Popma[2], D. G. Murphy[1] and C. Ecker[1], (1)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Department of Child and Adolescent Psychiatry, VU University Medical Center, Amsterdam, Netherlands, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)Department of Neuroimaging, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

68 107.068 Regulation of Brain Excitatory/Inhibitory Balance through the Mu-Opioid System Depends on the Extent of Autistic Symptoms J. L. Findon[1], R. H. Wichers[2], J. Horder[3], E. Daly[2], R. A. Edden[4], D. G. Murphy[2] and G. M. McAlonan[5], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, England, United Kingdom, (2)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (3)Institute of Psychiatry, King's College London, London, England, United Kingdom of Great Britain and Northern Ireland, (4)Johns Hopkins University School of Medicine, Baltimore, MD, (5)Department of Forensic and Neurodevelopmental Science, IoPPN, KCL, London, United Kingdom

69 107.069 Repetitive TMS Effects on Autonomic Balance in Children with Autism M. F. Casanova[1], Y. WANG[2], E. L. Casanova[3] and E. M. Sokhadze[4], (1)Greenville Campus Greenville Health Systems, University of South Carolina School of Medicine, Greenville, SC, (2)State Key Laboratory of Cognitive Neuroscience and Learning,BeiJing Normal University, Beijng, China, (3)Biomedical Sciences, University of South Carolina, Greenville, SC, (4)Biomedical Sciences, University of South Carolina School of Medicine, Greenville, SC

70 107.070 Salience Network Connectivity Is Related to Brain and Behavioral Markers of Sensory over-Responsivity in ASD S. Green[1], L. M. Hernandez[2], K. E. Lawrence[3], S. Y. Bookheimer[3] and M. Dapretto[3], (1)UCLA, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA

71 107.071 Specificity of Atypical Neural Response to Language in Infants at Risk for ASD C. Chuang[1], M. Rolison[1], J. F. Yang[1], E. D. Brooks[1], P. Hashim[2], R. Travieso[3], J. Terner[4], K. K. Stavropoulos[1], D. M. Steinbacher[3], N. Landi[5], L. C. Mayes[1], J. A. Persing[3] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2) Department of Dermatology, Mount Sinai School of Medicine, New Haven, CT, (3)Section of Plastic Surgery, Yale School of Medicine, New Haven, CT, (4)Division of Plastic Surgery, Montefiore Medical Center, Bronx, NY, (5)Department of Psychological Sciences, University of Connecticut College of Liberal Arts and Sciences, Storrs, CT

72 107.072 Spontaneous Beta Oscillations Are a Biomarker of Duplication 15q11.2-q13.1 Syndrome J. Frohlich[1], D. Senturk[2], P. Golshani[3], R. Sankar[4] and S. S. Jeste[5], (1)University of California, Los Angeles, Los Angeles, CA, (2)Biostatistics, University of California, Los Angeles, Los Angeles, CA, (3)Neurology, University of California, Los Angeles, Los Angeles, CA, (4)Pediatrics, Neurology, University of California, Los Angeles, Los Angeles, CA, (5)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

73 107.073 State-Dependent Reductions in Brain Network Modularity and Behavioral Inflexibility in Childhood Autism Spectrum Disorder C. J. Lynch[1], A. Breeden[2], X. You[3], R. Ludlum[1], W. D. Gaillard[3], L. Kenworthy[3] and C. J. Vaidya[1], (1)Department of Psychology, Georgetown University, Washington, DC, (2)Interdisciplinary Program in Neuroscience, Georgetown University, Washington, DC, (3)Children's Research Institute, Childrens National Medical Center, Washington, DC

74 107.074 Subtype Classification of Autism Spectrum Disorder Via Resting-State fMRI Reveals Distinct Brain Network Endophenotypes J. A. Richey[1], K. M. Gates[2], S. Lane[2], A. D. Valdespino[3], R. A. Müller[4] and A. Di Martino[5], (1)Virginia Tech, Blackbsurg, VA, (2)Psychology, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)Psychology, Virginia Tech, Blacksburg, VA, (4)San Diego State University, San Diego, CA, (5)NYU Child Study Center, New York, NY

75 107.075 Temporal and Spatial Neural Correlates of Theory of Mind in Children with ASD V. Yuk[1,2], R. Leung[1,2], E. Anagnostou[3,4] and M. J. Taylor[1,2,4], (1)Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada, (2)Psychology, University of Toronto, Toronto, ON, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Paediatrics, University of Toronto, Toronto, ON, Canada

76 107.076 The Impact of Child Characteristics on EEG Data Quality in Infants at Risk for and Children with ASD E. Baker[1] and S. S. Jeste[2], (1)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

77 107.077 The Influence of Biological Sex on Neurobiological Mechanisms Underlying Autism Spectrum Disorder M. Kirkovski[1,2], P. Enticott[1], N. Rogasch[3], T. Saeki[4], B. Fitzgibbon[2], J. Maller[2], M. Hughes[5], S. Rossell[5] and P. Fitzgerald[2], (1)Deakin University, Melbourne, VIC, Australia, (2)Monash Alfred Psychiatry Research Centre, Monash University, Melbourne, Australia, (3)Monash Biomedical Imaging, Monash University, Clayton, Australia, (4)Monash University, Melbourne, Australia, (5)Swinburne University, Hawthorn, Australia

78 107.078 Voice Processing in High-Functioning Autism Spectrum Disorder: Neuronal and Behavioral Mechanisms S. Schelinski[1], C. Roswandowitz[1,2], K. Borowiak[1,3] and K. von Kriegstein[1,4], (1)Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, (2)International Max Planck Research School on Neuroscience of Communication, Leipzig, Germany, (3)Berlin School of Mind and Brain, Humboldt University of Berlin, Berlin, Germany, (4)Humboldt University of Berlin, Berlin, Germany

79 107.079 White and Grey Matter Abnormalities in Autism Spectrum Disorder Associate with Verbal Performance S. V. Huemer[1], F. Kruggel[2], V. Mann[2] and J. Gehricke[3], (1)University of CA - Irvine, Rancho Palos Verdes, CA, (2)University of California, Irvine, Irvine, CA, (3)University of California, Irvine, Santa Ana, CA

80 107.080 Working Memory Load-Dependent Activation Differences Between ASD and TD Children: An fNIRS Study F. A. Fishburn[1], R. Ludlum[2], K. M. Dudley[3], A. B. Ratto[4], A. V. Medvedev[5], L. Kenworthy[6] and C. J. Vaidya[2], (1)Interdisciplinary Program in Neuroscience, Georgetown University, Washington, DC, (2)Department of Psychology, Georgetown University, Washington, DC, (3)Children's National Medical Center, Center for Autism Spectrum Disorders, Ellicott City, MD, (4)Children's National Medical Center, Silver Spring, MD, (5)Center for Functional and Molecular Imaging, Georgetown University Medical Center, Washington, DC, (6)Children's Research Institute, Children's National Medical Center, Rockville, MD

Poster Session
108 - Interventions Non-Pharmacologic - Preschool
11:30 AM - 1:30 PM - Hall A

81 108.081 Are Fathers Active Playmates with Their Children with ASD, and Why This Is Relevant for Therapy? P. Venuti[1], A. Bentenuto[2] and C. Furlanello[3], (1)University of Trento, Trento, Italy, (2)University of Trento, Trento, TN, Italy, (3)FBK - Fondazione Bruno Kessler, Trento, Italy

82 108.082 Brief Parent Training in PRT during Jumpstart, a Community Implemented Parent Education and Empowerment Program: Parent and Child Outcomes N. L. Matthews, B. C. Orr, B. Harris and C. J. Smith, Southwest Autism Research & Resource Center, Phoenix, AZ

83 108.083 Comparative Efficacy of Parent Training Plus Individual Targeted-ABA Therapy Versus Parent Training Alone: A Preliminary Analysis R. Embacher[1], T. W. Frazier[1], T. N. Gray[2] and A. Y. Hardan[3], (1) Cleveland Clinic Center for Autism, Cleveland, OH, (2)Center for Autism, Cleveland Clinic Children's, Cleveland, OH, (3)Stanford University, Stanford, CA

84 108.084 Consensus Among Early Intervention Autism Experts Regarding Context for Success and Strategies for Suddenly Inclusive Early Education Childcare Settings M. P. Maye[1], A. K. Stone-MacDonald[2], V. E. Sanchez[2], J. A. Galler[2] and A. S. Carter[3], (1)University of Massachusetts Boston, Boston, MA, (2)University of Massachusetts, Boston, Boston, MA, (3)Department of Psychology, University of Massachusetts Boston, Boston, MA

85 108.085 Earlier Intervention Is Better for Toddlers with ASD: Evidence from a Randomized Controlled Trial of the Early Social Interaction Project W. Guthrie[1,2], A. M. Wetherby[1], J. Woods[1], C. Schatschneider[1], R. Holland[1], L. Morgan[1] and C. Lord[3], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Weill Cornell Medical College, White Plains, NY

86 108.086 Early Intervention Program Participation By Preschool Children with Autism Spectrum Disorder J. Shenouda[1], J. Solis[2], K. Sidwell[1], D. Lincer[2], R. Baltus[2] and W. W. Zahorodny[3], (1)Rutgers University, Newark, NJ, (2)Pediatrics, Rutgers University, Newark, NJ, (3) New Jersey Medical School, Westfield, NJ

87 108.087 Early Start Denver Model (ESDM) Informed Treatment in Israeli ASD Preschools – a Pilot Study T. Gev[1,2], Y. Gavrilov-Sinai[1,2], C. Colombi[3], I. Mor Snir[2] and O. Golan[1,2], (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Association for Children at Risk, Givat-Shmuel, Israel, (3)Psychiatry, University of Michigan, Ann Arbor, MI

88 ▸108.088 Effectiveness of a Parent-Child Developmental Behavioral Training Program in a Community-Based Clinic M. Kinnear[1], M. J. Baker-Ericzen[2], N. Murphy[3], R. Linn[1], M. Fitch[4], S. M. Kanne[5] and M. O. Mazurek[6], (1)Rady Children's Hospital San Diego, San Diego, CA, (2) Child and Adolescent Services Research Center, Rady Children's Hospital San Diego, San Diego, CA, (3)Research, Rady Children's Hospital San Diego, San Diego, CA, (4)Child & Adolescent Services Research Center, Rady Children's Hospital, San Diego, San Diego, CA, (5)Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (6) University of Missouri - Columbia, Columbia, MO

89 108.089 Effects of School-Based Early Literacy Interventions for Preschoolers with ASD R. Hudson, E. Sanders, R. Greenway, C. Gasamis and J. Martini, University of Washington, Seattle, WA

90 108.090 Effects of a Parent-Implemented Developmental Reciprocity Program for Children with Autism Spectrum Disorder G. G. Baldi[1], C. Ardel[2], R. A. Libove[2], S. Schapp[3], S. Burton[3], J. M. Phillips[2], A. Y. Hardan[2] and G. W. Gengoux[2], (1)Children's Health Council, Palo Alto, CA, (2)Stanford University, Stanford, CA, (3)PGSP-Stanford PsyD Consortium, Palo Alto, CA

91 108.091 Evaluating a Coach-the-Coach Model with Community Childcare Providers to Support Social Communication Development with Children C. Watts, N. D. Bond, T. Nelson, J. Stapel-Wax and E. Wang, Marcus Autism Center, Atlanta, GA

92 108.092 Evaluating a Coach-the-Coach Model with Early Childcare Providers to Support Children with Social Communication Impairments N. D. Bond[1], C. Watts[1], T. Nelson[1], T. Ryan[2], M. Costo[1], E. J. Wang[3], J. Stapel-Wax[1] and S. K. Fuhrmeister[1], (1)Marcus Autism Center, Atlanta, GA, (2)Marcus Autism Center, Duluth, GA, (3)Pediatrics, Emory University, Atlanta, GA

93 108.093 Evaluation of a Novel Curriculum Targeting Early Social Communication Skills in Minimally Verbal, Preschool Aged Children with Autism Spectrum Disorder (ASD): A Pilot Study K. T. Sterrett[1], K. Hayashida[2], J. Kim[3], T. Paparella[4] and S. Freeman[4], (1)Graduate School of Education and Information Studies, University of California Los Angeles, Los Angeles, CA, (2)Child Psychiatry, Semel Institute for Neuroscience, Los Angeles, CA, (3)Semel Institute for Neuroscience, Los Angeles, CA, (4)University of California Los Angeles, Los Angeles, CA

94 108.094 Examining the Potential Reach and Engagement with a Self-Directed Telehealth Parent-Mediated Intervention for Children with ASD in Community Settings K. F. Shannon[1], N. I. Berger[2], B. E. Holtz[3] and B. Ingersoll[2], (1)Psychology, Michigan State University, Ada, MI, (2) Michigan State University, East Lansing, MI, (3)Department of Advertising & PR; Department of Media & Information, Michigan State University, East Lansing, MI

95 108.095 Eye-Tracking of Social Information Processing As an Outcome Measure for Clinical Trials D. Yurovsky[1], G. W. Gengoux[1], A. Y. Hardan[1], T. W. Frazier[2] and M. C. Frank[1], (1)Stanford University, Stanford, CA, (2)Cleveland Clinic Center for Autism, Cleveland, OH

96 108.096 Impact of Collaborative Caregiver Training Models on Caregivers, Children, and Early Interventionists A. Stainbrook[1], A. Vogel[1], A. Spiess[1], K. Dorris[1], Z. Warren[2] and P. Juarez[3], (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Vanderbilt University Medical Center, Nashville, TN

97 108.097 Improving Children›s Participation in Everyday Home Routines: Results from an RCT Assessing the Effectiveness of a Web-Based Parenting Tutorial L. V. Ibanez[1], W. L. Stone[1], L. Wallace[2], A. Swanson[3], Z. Warren[3] and K. A. Kobak[4], (1)Department of Psychology, University of Washington, Seattle, WA, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Center for Psychological Consultation, Madison, WI

98 108.098 Influential Factors on Response to Adapted Responsive Teaching Intervention S. Zheng[1], L. R. Watson[2], E. Crais[2], G. T. Baranek[3] and A. M. Carroll[4], (1)University of North Carolina at Chapel Hill, Carrboro, NC, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)UNC Chapel Hill, Chapel Hill, NC, (4)Occupational Science, University of North Carolina at Chapel Hill, Chapel Hill, NC

99 108.099 Jumping the Hurdle: Children with ASD and Symbolic Play Y. C. Chang[1], S. Y. Shire[2], C. K. McCracken[3], W. I. Shih[4] and C. Kasari[2], (1)Division of Special Education and Counseling, California State University, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)University of California, Los Angeles, El Segundo, CA, (4)UCLA, Monrovia, CA

100 108.100 Mu Suppression to Biological Motion Predicts Pivotal Response Treatment Response in Young Children with Autism Spectrum Disorder M. J. Crowley[1], J. Wu[2], C. A. Paisley[3], M. L. Braconnier[3], S. M. Abdullahi[3], L. C. Mayes[4], K. Pelphrey[3] and P. E. Ventola[3], (1)Yale School of Medicine, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (4) Child Study Center, Yale School of Medicine, New Haven, CT

101 108.101 Neuroimaging Predictors of Benefits from Pivotal Response Treatment A. Y. Hardan[1], G. W. Gengoux[1], J. Hegarty[1], J. M. Phillips[1], S. Tanaka[1], T. W. Frazier[2] and A. L. Reiss[1], (1)Stanford University, Stanford, CA, (2)Cleveland Clinic Center for Autism, Cleveland, OH

102 108.102 Neuroprediction of Treatment Effectiveness in Young Children with Autism Spectrum Disorder D. Yang, K. Pelphrey, C. A. Paisley, M. L. Braconnier, S. M. Abdullahi, D. G. Sukhodolsky, M. J. Crowley and P. E. Ventola, Yale Child Study Center, Yale School of Medicine, New Haven, CT

103 108.103 Outcomes of a 10-Hour per Week Interdisciplinary Early Intervention Program for Young Children with Autism A. Tanner[1] and C. Ganam[2], (1)Monarch House, Vancouver, BC, Canada, (2)Monarch House, BUrnaby, BC, Canada

104 108.104 Peer Versus Teacher Talk in Early Intervention Classrooms: Case Studies Suggest That Inclusion Might be Different E. F. Ferguson[1], A. S. Nahmias[2], L. Bateman[1], K. J. Payton[1], D. S. Mandell[3], R. T. Schultz[4] and J. Parish-Morris[1,5], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania School of Medicine, Philadelphia, PA, (4)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)Suite 860, Children's Hospital of Philadelphia, Philadelphia, PA

105 108.105 Preliminary Efficacy of Relationship Development Intervention® and Parent-Implemented Applied Behavior Analysis/Verbal Behavior on Joint Attention and Communication of Preschool Children with Autism M. Kerwin[1], M. E. Soreth[1], C. Gangemi[2] and B. Coleman[1], (1) Rowan University, Glassboro, NJ, (2)Family First, LLC, Haddonfield, NJ

106 108.106 Project Impact Implementation Fidelity: Researcher, Clinician, and Parent Measures Relative to Child Outcomes A. B. Barber[1], H. Noble[2], C. H. Cook[3] and B. Ingersoll[4], (1)University of Alabama, Tuscaloosa, AL, (2)Vanderbilt University, Nashville, TN, (3)Communicative Disorders, University of Alabama, Tuscaloosa, AL, (4)Michigan State University, East Lansing, MI

107 108.107 Relations Between Parental Use of Esdm Intervention Techniques and Communication Growth in Toddlers with ASD M. R. Talbott[1], K. Moomey[2], J. Greenson[2], K. S. Davlantis[3], C. D. Zierhut[4], J. Munson[2], N. Lange[5], A. M. Estes[6] and S. J. Rogers[7], (1)University of California, Davis, Sacramento, CA, (2)University of Washington, Seattle, WA, (3)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (4)UC Davis MIND Institute, Sacramento, CA, (5)McLean Hospital, Cambridge, MA, (6)University of Washington Autism Center, Seattle, WA, (7)University of California at Davis, Sacramento, CA

108 108.108 Standardized Measures of Improvement in Language Across Two Randomized Clinical Trials of Pivotal Response Treatment G. W. Gengoux[1], M. B. Minjarez[2], J. M. Phillips[1], K. L. Berquist[1], C. Ardel[1], R. A. Libove[1], M. E. Millan[1], R. Schuck[1], T. W. Frazier[3] and A. Y. Hardan[1], (1) Stanford University, Stanford, CA, (2)Seattle Children's Hospital, Seattle, WA, (3)Cleveland Clinic Center for Autism, Cleveland, OH

109 108.109 The Differential Relationship Between Competence and Stress Across Parent Groups for Caregivers of Children with Autism Spectrum Disorder **B. Harrison**[1], S. Iadarola[2], T. Smith[3], K. Bearss[4], C. R. Johnson[5], L. Lecavalier[6], N. Swiezy[7], D. G. Sukhodolsky[8] and L. Scahill[9], (1)University of Rochester, Pittsford, NY, (2)University of Rochester Medical Center, Rochester, NY, (3)Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (4)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (5)Dept of Clinical and Health Psychology, University of Florida, Gainesville, FL, (6)The Ohio State University, Columbus, OH, (7)University of Indiana, Indianapolis, IN, (8) Yale Child Study Center, Yale School of Medicine, New Haven, CT, (9) Pediatrics, Marcus Autism Center, Atlanta 30329, GA

110 108.110 The Frankfurt Early Intervention Program for Preschool Children with Autism Spectrum Disorder (FFIP) - First Results on the Two Year Development **J. Kitzerow**[1], K. Teufel[1], C. Wilker[1] and C. M. Freitag[2], (1)Autism Research and Intervention Center of Excellence Frankfurt, Goethe University Hospital, Frankfurt, Germany, (2)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Johann Wolfgang Goethe-University Frankfurt/Main, Frankfurt, Germany

111 108.111 The Sequential Oral Sensory Approach Intervention in Treating Children with Autism Spectrum Disorder and Limited Food Repertoire. a Pilot Study **S. Smile**[1,2], M. Pena[1], K. Perry[1], R. Perlin[1], C. Raffaele[1], A. Munoz[2], M. Lynch[1] and A. Dupuis[3], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Bloorview Research Institute, Toronto, ON, Canada, (3)The Hospital for Sick Children, Toronto, ON, Canada

112 108.112 The Use of Mirroring to Improve Social Engagement in Young Children with ASD **K. Radonovich** and K. Reese, University of Florida, Gainesville, FL

113 108.113 Training Caregivers in PRT: Lessons Learned in Private Practice **R. E. Daniels**, Chicago Children's Clinic, Winnetka, IL

114 108.114 Training Early Childhood Educators in the Social ABCs Toddler Autism Intervention in a Community Child Care **J. A. Brian**[1], K. Bernardi[1], E. M. Dowds[2] and S. E. Bryson[3], (1)Bloorview Research Institute, Toronto, ON, Canada, (2)The Hospital for Sick Children and Bloorview Kids Rehab, Toronto, ON, Canada, (3)Dalhousie University, Halifax, NS, Canada

115 108.115 Understanding and Measuring Change and Impact of Novel Early Intervention Programs **S. Bauman**[1], M. L. Iemolo[1], Z. Warren[2], C. R. Newsom[3], A. Stainbrook[1], P. Juarez[4] and A. S. Weitlauf[2], (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Pediatrics, Vanderbilt University Medical Center, Nashville, TN, (4)Vanderbilt University Medical Center, Nashville, TN

116 108.116 Unity Twelve-Week ABA Parent Training: Weekly Changes in Parent Experiences and Competence **S. Freund**[1], M. N. Gragg[2], S. Popovic[1], R. Jamil[1] and G. Miljevic[3], (1)University of Windsor, Windsor, ON, Canada, (2)Psychology, University of Windsor, Windsor, ON, Canada, (3)Summit Centre for Pre-school Children with Autism, Windsor, ON, Canada

117 108.117 Use of Early Intensive Behavioral Intervention Among Children with ASD: Outcomes for Children with and without a History of Developmental Regression **R. P. Goin-Kochel**[1], S. S. Mire[2], L. Berry[1], S. M. Kanne[3], R. Bernier[4], C. G. Minard[5] and D. Guffey[1], (1)Baylor College of Medicine, Houston, TX, (2)University of Houston, Houston, TX, (3) Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (4)University of Washington, Seattle, WA, (5)Dan L. Duncan Institute for Clinical and Translational Research, Baylor College of Medicine, Houston, TX

118 108.118 Use of Objective Behavioral Observation Measures to Evaluate Outcomes of Pivotal Response Treatment **M. B. Minjarez**[1], G. W. Gengoux[2], K. L. Berquist[2], C. Ardel[2], T. W. Frazier[3] and A. Y. Hardan[2], (1) Seattle Children's Hospital, Seattle, WA, (2)Stanford University, Stanford, CA, (3)Cleveland Clinic Center for Autism, Cleveland, OH

119 108.119 Using Cluster Analysis to Explore Subgroups in Response to Early Intervention **J. M. Paynter**[1] and A. E. Lane[2], (1)AEIOU for Children with Autism, Moorooka, Australia, (2)University of Newcastle, Callaghan, Australia

Poster Session
109 - Molecular and Cellular Biology
11:30 AM - 1:30 PM - Hall A

120 109.120 A Cellular and Molecular Study Investigating the Fetal Androgen Theory of Autism Using a Human Stem Cell Model **D. Adhya**[1], K. Jozwik[2], J. Carroll[3], J. Price[4], D. Srivastava[5] and S. Baron-Cohen[6], (1) University of Cambridge, Cambridge, England, United Kingdom, (2)Cancer Research UK Cambridge Research Institute, Cambridge, United Kingdom, (3)Cancer Research UK Cambridge Institute, Cambridge, United Kingdom, (4)Institute of Psychiatry, KCL, London, England, United Kingdom of Great Britain and Northern Ireland, (5)Institute of Psychiaty, King's College London, London, United Kingdom, (6)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

121 109.121 Alterations in the Autism-Related Gene CEP290 Affects Neurite Formation and Differentiation **M. B. Kilander**[1] and Y. C. Lin[2], (1) Suite 301, Hussman Institute for Autism, Baltimore, MD, (2)Laboratory of Neuronal Connectivity, Hussman Institute for Autism, Baltimore, MD

122 109.122 Autism Patient-Derived Neural Stem Cells Display Neurite Extension and Migration Defects **S. Prem**[1], M. Williams[1], C. McDermott[2], X. Zhou[3], P. G. Matteson[4], P. Yeung[5], C. W. Lu[5], Z. Pang[5], L. M. Brzustowicz[6], J. H. Millonig[3] and E. DiCicco-Bloom[7], (1)Neuroscience, Graduate School of Biomedical Sciences, Piscataway, NJ, (2)Queens College, Queens, NY, (3)Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, (4)Rutgers University, Piscataway, NJ, (5)Child Health Institute of New Jersey, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, (6)Genetics, Rutgers University, Piscataway, NJ, (7) Rutgers University - Robert Wood Johnson Medical School, Piscataway, NJ

123 109.123 Autism and Immunity: Salivary Cytokines in Children with Autism Spectrum Disorder **L. C. Goodwin**[1,2], H. L. Green[1] and K. Froud[3], (1)Columbia University, New York, NY, (2)Center for Autism and the Developing Brain, White Plains, NY, (3)Biobehavioral Sciences, Columbia University Teaches College, New York, NY

124 109.124 Behavioral Phenotypes in Mouse Models of Angelman Syndrome **E. Weeber** and S. Ciarlone, University of South Florida, Tampa, FL

125 109.125 Behavioral and Electrophysiological Characterization of Children with 15q11.2-q13.3 Duplications S. S. Jeste[1], C. DiStefano[2], J. Frohlich[1] and P. Golshani[3], (1)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (2)Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, Los Angeles, CA, (3)Neurology, University of California, Los Angeles, Los Angeles, CA

126 109.126 Bioavailable Testosterone Predicts Autistic Traits in Women with and without Autism A. L. Pohl[1], J. R. Lloyd[2], L. Ruta[3], B. Auyeung[4] and S. Baron-Cohen[1], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Computational and Biological Learning Lab, University of Cambridge, Cambridge, United Kingdom, (3)Institute of Clinical Physiology, National Research Council (CNR), Taormina, Italy, (4)University of Edinburgh, Edinburgh, United Kingdom

127 109.127 Compromised Neurite Morphology of Induced Pluripotent Stem Cell-Derived Neurons: Similar Patterns from Independent Non-Syndromic Autism Cases V. Roman[1], J. Kobolák[2], H. Avci[2], Z. Ábrahám[3], B. Hodoscsek[3], S. Berzsenyi[3], B. Koványi[3], P. Dezsõ[3], J. Nagy[3], A. Chandrasekaran[2], A. Ochalek[4], E. Varga[2], C. Nemes[2], I. Bock[2], K. Pentelényi[5], K. Németh[6], A. Balázs[7], J. Molnár[5], A. Dinnyés[2], G. Lévay[8] and B. Lendvai[9], (1)Neurodevelopmental Biology, Gedeon Richter Plc., Budapest, Hungary, (2)BioTalentum Ltd., Gödöllõ, Hungary, (3)Molecular Cell Biology, Gedeon Richter Plc., Budapest, Hungary, (4)Molecular Animal Biotechnology, Szent István University, Gödöllõ, Hungary, (5) Institute of Genomic Medicine and Rare Disorders, Semmelweis University, Budapest, Hungary, (6)Autism Foundation, Budapest, Hungary, (7)Outpatient Clinic, Autism Foundation, Budapest, Hungary, (8)Cognitive Pharmacology, Gedeon Richter Plc., Budapest, Hungary, (9)Division of Pharmacology and Drug Safety, Gedeon Richter Plc., Budapest, Hungary

128 109.128 Disrupted Short- and Long-Range Neural Connectivity in a Mouse Model of Autism N. Cheng[1], F. Alshammari[1], M. Khanbabaei[1], E. Hughes[1], R. Tobias[1], K. Murari[2] and J. M. Rho[1], (1)Alberta Children's Hospital Research Institute, University of Calgary, Calgary, AB, Canada, (2)Electrical and Computer Engineering, University of Calgary, Calgary, AB, Canada

129 109.129 Elucidating the Antigenic Epitopes in Maternal Autoantibody Related Autism Spectrum Disorder (ASD) E. Edmiston[1], J. Van de Water[2] and K. L. Jones[3], (1)Internal Medicine, UC Davis, Sacramento, CA, (2)University of California at Davis MIND Institute, Davis, CA, (3)University of California at Davis, Sacramento, CA

130 109.130 Hyperexcitability in Stem Cell-Derived Neurons from Dup15q Autism and Angelman Syndrome Patients J. Fink[1], T. Robinson[1], S. Chamberlain[2] and E. Levine[1], (1)Dept Neuroscience, University of Connecticut Health Center, Farmington, CT, (2)Genetics and Genome Sciences, University of Connecticut Health Center, Farmington, CT

131 109.131 Identification of Serum Protein Biomarkers for Autism Spectrum Disorder L. Hewitson[1], S. Singh[2], U. Yazdani[2], B. Gadad[2], S. Zaman[2], N. Roatch[1], C. Schutte[1], L. S. Hynan[3], C. N. Marti[4] and D. C. German[2], (1)The Johnson Center for Child Health and Development, Austin, TX, (2)UT Southwestern Medical Center, Dallas, TX, (3)Clinical Sciences (Biostatistics) and Psychiatry, UT Southwestern Medical Center, Dallas, TX, (4)Abacist Analytics, Austin, TX

132 109.132 Innate Versus Adaptive Immune Response Pathways in Peripheral Blood from ASD Children with Ileocolonic Inflammation S. J. Walker[1] and A. Krigsman[2], (1)Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC, (2)Pediatric Gastroenterology Resources of New York and Texas, Far Rockaway, NY

133 109.133 Non-Coding RNAs in Autism M. N. Ziats[1] and O. M. Rennert[2], (1)NICHD, NIH, Bethesda, MD, (2)NICHD, NIH, Bthesda, MD

134 109.134 Noncoding RNAs and Autism: The Impact of Employing Integrated Approaches Z. Talebizadeh, Children's Mercy Hospital, Kansas City, MO

135 109.135 Peripheral Lymphocytic Extracellular Signal Related Kinase Activation in Young Children with Autism Spectrum Disorder K. C. Dominick[1], R. Shaffer[2], A. Duncan[1], C. L. Thomas[1], K. O'Brien[1], H. Meyer[1], L. K. Wink[3], E. Pedapati[4], C. R. Tessier[5] and C. Erickson[1], (1) Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Cincinnati Children's Hospital Medical Center, Harrison, OH, (3)Child and Adolescent Psychiatry, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)INSAR Cincinnati Children's Hospital Medical Center, cincinnati, OH, (5) Indiana University School of Medicine - South Bend, South Bend, IN

136 109.136 Reversing the Behavioral Phenotypes in fmr1 KO By the Reduction of Potassium Channel, Kv4.2 H. Y. Lee and L. Jan, UCSF, SF, CA

137 109.137 Sexual Dimorphism of Regulatory Small Non-Coding RNA in the Superior Temporal Gyrus Brain Region of Autism Spectrum Disorders: A Pilot Study B. Stamova[1], B. P. Ander[2], F. R. Sharp[3] and C. M. Schumann[1], (1)UC Davis MIND Institute, Sacramento, CA, (2)Department of Neurology, UC Davis MIND Institute, Sacramento, CA, (3)University of California at Davis, Sacramento, CA

138 109.138 Syntaxin Binding Protein 5 Regulates Neurite Differentiation in an Autism-Related Model W. Shen, J. A. Frei and Y. C. Lin, Laboratory of Neuronal Connectivity, Hussman Institute for Autism, Baltimore, MD

139 109.139 Transcriptional Profiling of Human Neural Differentiation Implicates Noncoding RNA and ASD-Associated Genes P. Hecht[1], D. B. Campbell[1], N. A. Grepo[2] and J. A. Knowles[1], (1)University of Southern California, Los Angeles, CA, (2)USC, LOS ANGELES, CA

140 109.140 Urinary Metabolomics of Young Italian Autistic Children Supports Abnormal Tryptophan and Purine Metabolism F. Gevi[1], S. Gabriele[2], L. Zolla[1] and A. M. M. Persico[3,4], (1)Department of Ecological and Biological Sciences, University of Tuscia, Viterbo, Italy, (2)Child & Adolescent Neuropsychiatry Unit, Lab of Molecular Psychiatry and Neurogenetics, University Campus Bio-Medico of Rome, Rome, Italy, (3) Mafalda Luce Center for Pervasive Developmental Disorders, Milan, Italy, (4)Child and Adolescent Neuropsychiatry Unit, Lab of Molecular Psychiatry and Neurogenics, University Campus Bio-Medico, Rome, Italy

141 109.141 Using iPSCs to Study Pathobiology and Drug Targets for Phelan-Mcdermid Syndrome A. Browne[1], E. Drapeau[2] and J. D. Buxbaum[3], (1)Icahn School of Medicine at Mount Sinai, New York, NY, (2)Icahn School of Medicine at Mount Sinai, Long Island City, NY, (3) Psychiatry, Seaver Autism Center at Mount Sinai, New York, NY

Poster Session

110 - Social Cognition and Social Behavior
11:30 AM - 1:30 PM - Hall A

142 110.142 A Dynamic Systems Approach to Emotion Coregulation in Families of Children with Autism Spectrum Disorders and Families of Typically Developing Children Y. Guo[1], W. A. Goldberg[1], D. R. Garfin[1] and A. R. Ly[2], (1)University of California Irvine, Irvine, CA, (2)University of Delaware, Newark, DE

143 110.143 A Longitudinal Study of the Social-Cognitive Phenotype of ASD and Reading Comprehension Development N. S. McIntyre[1], P. C. Mundy[2], M. Solomon[3], T. Oswald[4], L. E. Swain-Lerro[1], M. C. Zajic[1], J. B. McCauley[4] and H. K. Schiltz[5], (1)University of California at Davis MIND Institute, Davis, CA, (2)Education and Psychiatry, University of California at Davis, Sacramento, CA, (3)MIND Institute, Sacramento, CA, (4)University of California at Davis MIND Institute, Sacramento, CA, (5) Human Development, University of California at Davis, Davis, CA

144 110.144 A Meta-Analysis of Friendships in School-Age Youth with ASD J. Mendelson[1], J. A. Gates[2] and M. D. Lerner[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Greensboro, NC, (2)Stony Brook University, Smithtown, NY, (3)Stony Brook University, Stony Brook, NY

145 110.145 Abnormal Joint Attention Network in Children and Adolescents with Autism: An Interactive Eye-Tracking Paradigm E. Oberwelland[1,2], L. Schilbach[3,4], I. Barisic[3,5], S. C. Krall[2,6], K. Vogeley[2], G. R. Fink[2,7], B. Herpertz-Dahlmann[1], K. Konrad[1,2] and M. Schulte-Rüther[1,2], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (2) Cognitive Neuroscience, Institute of Neuroscience and Medicine (INM-3), Jülich Research Center, Jülich, Germany, (3)Department of Psychiatry, University Hospital Cologne, Cologne, Germany, (4)Max Planck Institute of Psychiatry, Munich, Germany, (5)Department of Humanities, Social and Political Science, ETH Zurich, Zurich, Switzerland, (6)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (7)Department of Neurology, University Hospital Cologne, Cologne, Germany

146 110.146 Adolescents› Ability to Differentiate Interest Levels of Their Conversational Partners on the Contextual Assessment of Social Skills (CASS) C. O. Leonczyk, S. Mrug, R. Murray, L. N. Perry, J. W. Blackston and S. E. O'Kelley, Psychology, University of Alabama at Birmingham, Birmingham, AL

147 110.147 Affective Flexibility during the Self-Referenced Memory Task: A Novel Analytic Approach C. A. Burrows[1], S. Sun[2], L. V. Usher[1], J. C. Britton[2] and H. A. Henderson[3], (1)University of Miami, Coral Gables, FL, (2)Psychology, University of Miami, Coral Gables, FL, (3)University of Waterloo, Waterloo, ON, Canada

148 110.148 Alexithymia, Executive Function and Mind-Reading in Children with and without Autism Spectrum Disorders B. Auyeung[1,2], C. Griffin[3] and M. V. Lombardo[4], (1)Department of Psychology, School of Philosophy, Psychology and Language Sciences, University of Edinburgh, Edinburgh, United Kingdom, (2)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)Psychology, University of Edinburgh, Edinburgh, United Kingdom, (4) Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

149 110.149 Alexithymia, Not Autism or Anxiety Symptoms, Predicts Reduced Eye Fixation in a Transdiagnostic Adult Sample K. G. Stephenson[1], N. Top[1], S. Luke[1], T. Shuman[1], L. Peacock[1], A. Ward[1] and M. South[1,2], (1)Brigham Young University, Provo, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT

150 110.150 An Examination of Prosocial Behaviors in Children with and without Autism Spectrum Disorders H. Van Etten and L. J. J. Carver, University of California San Diego, La Jolla, CA

151 110.151 Are "Strange Stories" Strange to a Non-Clinical Population? Relationships Between AQ and Physical and Mental State Reasoning T. Loucas[1], P. Beaman[1], M. Younas[2] and L. E. Martin[2], (1) Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (2)University of Reading, Reading, United Kingdom

152 110.152 Assessing and Training Emotion Recognition: A Comprehensive Facial Expression Training Program for Children with ASD S. Matsuda[1,2] and J. Yamamoto[3], (1)University of Tsukuba, Ibaraki, Japan, (2)Japan Society for the Promotion of Science, Tokyo, Japan, (3)Dept. of Psychology, Keio University, Tokyo, Japan

153 110.153 Associations Between Emotional Problems and Cognition in Autism Spectrum Disorders C. Cantio[1] and N. Bilenberg[2], (1) Child and Adolescent Psychiatry, Odense C, Denmark, (2)Research Unit, Child and Adolescent Psychiatry, Odense, Odense C, Denmark

154 110.154 Attention Orienting to Direct Gaze in Young Children with Autism Spectrum Disorder - a Heart Rate Study T. M. Helminen[1], J. K. Hietanen[1], J. M. Leppänen[2], K. Eriksson[2] and A. Kylliainen[1], (1)School of Social Sciences and Humanities / Psychology, University of Tampere, Tampere, Finland, (2)School of Medicine, University of Tampere, Tampere, Finland

155 110.155 Autism Subgroups Defined By Heterogeneity in Performance on an Advanced Mentalizing Test M. V. Lombardo[1], M. C. Lai[2], B. Auyeung[3], R. Holt[4], C. Allison[4], P. Smith[4], B. Chakrabarti[5], A. N. Ruigrok[4], C. MRC AIMS[6], C. Ecker[7], M. Craig[7], D. G. Murphy[7] and S. Baron-Cohen[4], (1)University of Cyprus, Nicosia, Cyprus, (2)Centre for Addiction and Mental Health, The Hospital for Sick Children, and Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (3) University of Edinburgh, Edinburgh, United Kingdom, (4)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (5)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom, (6)Autism Research Centre, University of Cambridge; the Institute of Psychiatry (IoP) at King's College, London; Autism Research Group, University of Oxford, Cambridge, United Kingdom, (7)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

156 110.156 Autism Symptom Severity and Social-Emotional Cognition Among Children with High Functioning Autism Spectrum Disorder C. S. Albaum[1], P. Burnham Riosa[2] and J. A. Weiss[2], (1) Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada

157 110.157 Automated Measurement of Head Movement in Children with and without ASD K. B. Martin[1], Z. Hammal[2], J. Cohn[3], J. Cassell[4] and D. S. Messinger[1], (1)Psychology, University of Miami, Coral Gables, FL, (2)The Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, (3)Psychology, University of Pittsburgh, Pittsburgh, PA, (4) School of Computer Science, Carnegie Mellon University, Pittsburgh, PA

158 110.158 Biological Motion Preference and Autism Symptomatology in Adolescents with Fragile X Syndrome K. E. Caravella[1], F. Shic[2], Q. Wang[2] and J. E. Roberts[3], (1)University of South Carolina, Columbia, SC, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Psychology, University of South Carolina, Columbia, SC

159 110.159 Cardiac Vagal Tone Predicts Eye Gaze Fixation in the Broad Autism Phenotype **J. Klusek**[1], J. Schmidt[2], A. Porter[1] and J. E. Roberts[1], (1)Psychology, University of South Carolina, Columbia, SC, (2) University of Central Florida, Orlando, FL

160 110.160 Children with Autism Are Hypo-Responsive to Human Eyes Presented without Sound, but Hyper-Responsive to Eyes Presented after Social Sounds **J. L. Kleberg**[1], E. Thorup[2] and T. Falck-Ytter[3], (1) Box 1225, Uppsala University, Uppsala, Sweden, (2)Uppsala universitet, Hägersten, Sweden, (3)Uppsala University, Uppsala, Sweden

161 110.161 Common Genetic Variation in Neuropeptide Receptors and Social Processing Across Neurodevelopmental Disorders **D. A. Baribeau**[1], A. Dupuis[2], T. A. Paton[3], S. W. Scherer[4], R. Schachar[5], P. D. Arnold[6], P. Szatmari[7], R. Nicolson[8], S. Georgiades[9], N. Soreni[9], J. Crosbie[2], J. A. Brian[10], A. Iaboni[11] and E. Anagnostou[1], (1)University of Toronto, Toronto, ON, Canada, (2)The Hospital for Sick Children, Toronto, ON, Canada, (3)the Centre for Applied Genomics at the Hospital for Sick Children, Toronto, ON, Canada, (4)Centre for Applied Genomics (TCAG), Hospital for Sick Children, Toronto, ON, Canada, (5)Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada, (6)University of Calgary, Calgary, AB, Canada, (7)Centre for Addiction and Mental Health, Toronto, ON, Canada, (8)University of Western Ontario, London, ON, Canada, (9) McMaster University, Hamilton, ON, Canada, (10)Bloorview Research Institute, Toronto, ON, Canada, (11)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

162 110.162 Developing an Eye-Tracking Biomarker to Measure Social Motivation in Minimally Verbal Children with ASD **K. Unruh**[1,2], J. W. Bodfish[1,2,3] and E. Morrow[1,3], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt Brain Institute, Nashville, TN, (3)Vanderbilt Bill Wilkerson Center, Nashville, TN

163 110.163 Differences in Reaction Time to Detect Emotion Faces Varies Based on Autistic Social Skills and Communication Abilities in Young Adults **J. Burk**[1], C. Dickter[1], J. Zeman[2] and K. M. Fleckenstein[3], (1)College of William & Mary, Williamsburg, VA, (2)Psychology, College of William and Mary, Williamsburg, VA, (3)College of William and Mary, Williamsburg, VA

164 110.164 Dissociating Social Functioning in ASD and Schizophrenia Using Clinical Assessment and Neural Response to Gaze Cues **J. H. Foss-Feig**[1], A. Naples[2], K. Deckert[3], E. J. Levy[3], K. K. Stavropoulos[2], M. Rolison[2], N. Santamauro[4], U. Kosir[5], C. Schleifer[5], V. Srihari[4], A. Anticevic[4] and J. McPartland[2], (1)Yale School of Medicine, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT, (3)Yale Child Study Center, New Haven, CT, (4)Yale University School of Medicine, New Haven, CT, (5)Yale University, New Haven, CT

165 110.165 Distinctive Abnormalities in Imitative Response to Socially Engaging Versus Neutral Partners Are Specific to ASD and Predict Treatment Outcomes **G. Vivanti**, Olga Tennison Autism Research Centre, Melbourne, Australia

166 110.166 Does Early Response to Joint Attention Predict Executive Functioning Among Infant Siblings at School-Age? **M. del Rosario**[1], K. Gillespie-Lynch[2], N. Pham[3], T. A. De los Santos[3] and T. Hutman[4], (1)Medicine, University of California, Los Angeles, Los Angeles, CA, (2)City University of New York, College of Staten Island, Staten Island, NY, (3)University of California, Los Angeles, Los Angeles, CA, (4) University of California Los Angeles, Los Angeles, CA

167 110.167 Effects of Reciprocal Imitation Training on Brain and Behaviour: A Pilot Randomized Controlled Trial **S. Malik**[1], C. Oliver[1], J. Moss[2], B. Ingersoll[3], C. Stefanidou[4], A. Wainer[5], L. Kossyvaki[6] and J. McCleery[7], (1)School of Psychology, University of Birmingham, Birmingham, United Kingdom, (2)University of Birmingham, Birmingham, England, United Kingdom of Great Britain and Northern Ireland, (3) Michigan State University, East Lansing, MI, (4)University of Birmingham, Birmingham, United Kingdom, (5)Autism Assessment, Research, Treatment and Services Center, Rush University Medical Center, Chicago, IL, (6)School of Education, University of Birmingham, Birmingham, United Kingdom, (7)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

168 110.168 Effort-Based Decision-Making in Adolescents with Autism Spectrum Disorders **M. G. Mosner**[1], J. Kinard[2], S. McWeeny[3], C. R. Damiano[4], M. R. Burchinal[5], H. J. V. Rutherford[6], M. T. Treadway[7] and G. S. Dichter[8], (1)University of North Carolina, Carrboro, NC, (2)Carolina Institute for Developmental Disabilities, University of North Carolina School of Medicine, Chapel Hill, NC, (3)Psychology, University of Chapel Hill, Carrboro, NC, (4)University of North Carolina, Durham, NC, (5)Data Management and Analysis Core, Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, NC, (6)Yale Child Study Center, Yale University, New Haven, CT, (7)Department of Psychology, Emory University, Atlanta, GA, (8)University of North Carolina, Chapel Hill, NC

169 110.169 Elementary School Impact of Early ABA Intervention **E. Rotheram-Fuller**[1], K. S. Turner[1], H. Park[1], D. Martinez[1], N. L. Matthews[2] and C. J. Smith[2], (1)Arizona State University, Tempe, AZ, (2)Southwest Autism Research & Resource Center, Phoenix, AZ

170 110.170 Emotion Recognition Patterns from Facial Expressions in Children with ASD: Results from a Cross-Modal Matching Paradigm **O. Golan**[1], I. Gordon[1,2], K. Fichman[3] and G. Keinan[3], (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Yale Child Study Center, Yale University, New-Haven, CT, (3)School of Psychological Sciences, Tel-Aviv University, Tel-Aviv, Israel

171 110.171 Emotional Effects of Ostracism in ASD: A Physiological Approach **E. Trimmer**[1], S. McDonald[2], D. Mathersul[3] and J. A. Rushby[4], (1)University of New South Wales, Potts Point, NSW, Australia, (2) Psychology, University of New South Wales, Sydney, Australia, (3) University of Pennsylvania, Philadelphia, PA, (4)University of New South Wales, UNSW, Sydney, NSW, Australia

172 110.172 Evaluating the Role of Social Approach Behaviors in Language Development **J. Weber**[1], A. Gutierrez[2] and M. Alessandri[2], (1)Els for Autism Foundation, Jupiter, FL, (2)University of Miami, Coral Gables, FL

173 ▸ 110.173 Event-Related Potential and Induced Gamma Study of Facial Expression Processing Deficits in Autism **E. M. Sokhadze**[1], **Y. Wang**[2], A. S. El-Baz[3], G. E. Sokhadze[4] and M. F. Casanova[5], (1)Outpatient Clinic, University of South Carolina School of Medicine, Greenville, SC, (2)State Key Laboratory of Cognitive Neuroscience and Learning,BeiJing Normal University, Beijng, China, (3)University of Louisville, Louisville, KY, (4)Anatomical Sciences & Neurobiology, University of Louisville, Louisville, KY, (5)Pediatrics and Biomedical Sciences, University of South Carolina School of Medicine, Greenville, SC

174 110.174 Examining Ecological Validity in the Use of Eye-Tracking for Toddlers with Autism Spectrum Disorders A. Navab[1], T. Vernon[1], J. Bradshaw[2], E. J. Horowitz[1], A. Barrett[3], J. Ko[3], S. Offman[1], J. Gong[1], A. C. Voos[1], T. German[1] and R. L. Koegel[1], (1)University of California, Santa Barbara, Santa Barbara, CA, (2)Marcus Autism Center, Emory University, Atlanta, GA, (3)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

175 110.175 Examining the Relationship Between Social Engagement, Self-Esteem, and Self-Perceived Popularity in Adolescents with Autism Spectrum Disorder E. Kutasevich[1], J. W. Yang[2], E. Veytsman[3] and E. A. Laugeson[3], (1)Psychiatry, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (3)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

176 110.176 Exploring Levels of Self-Reported Sympathy and Distress in Individuals with Autism R. Holt[1], J. Upadhyay[2], P. Smith[3], C. Allison[3], R. Newman[2], T. Boardman[2], B. Chakrabarti[4] and S. Baron-Cohen[3], (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom

177 110.177 Exploring the Mechanisms Underlying Reduced Emotion Contagion in Autism Spectrum Disorders D. M. Berry[1] and A. H. Osborn[2], (1)School of Psychology, Keele University, Staffordshire, United Kingdom, (2)School of Life Sciences, Keele University, Staffordshire, United Kingdom

178 110.178 Exposure to Elements in Fetal and Early Postnatal Periods and Autistic Traits M. Arora[1], K. Tammimies[2], C. Gennings[1], C. M. Willfors[3], A. Reichenberg[4] and S. Bolte[3], (1)Preventive Medicine, Mount Sinai School of Medicine, New York, NY, (2)Karolinska Institutet, Stockholm, Sweden, (3)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden, (4)Mount Sinai School of Medicine, New York, NY

179 110.179 Gaze Following Atypicalities in Children with Autism: The Role of Motivation E. Thorup, J. L. Kleberg and T. Falck-Ytter, Uppsala University, Uppsala, Sweden

180 110.180 Gender As a Moderator of the Association Between Social Responsiveness and Cognitive Ability for Children with Autism J. L. Irwin and M. Beeghly, Psychology, Wayne State University, Detroit, MI

181 110.181 High and Lower Order Supported Joint Attention in Autism and Typical Development A. M. Abdelaziz[1], M. Wagner[2], D. A. Fein[3] and L. Naigles[4], (1)University of Connecticut, Mansfield Center, CT, (2)Literatures, Cultures, and Languages, University of Connecticut, Storrs, CT, (3)Psychology, University of Connecticut, Storrs, CT, (4)University of Connecticut, Storrs, CT

182 110.182 How Do People with Autism Spectrum Disorder (ASD) Perform on the Ultimatum Game? Using Game Theory to Study Social Decision Making in ASD C. Cheung[1], K. Woodcock[2], D. H. H. Skuse[3] and W. Mandy[4], (1)Clinical Psychology, UCL, London, United Kingdom, (2) Psychology, Queens University, Belfast, Belfast, United Kingdom, (3) Institute of Child Health, London, United Kingdom of Great Britain and Northern Ireland, (4)University College London, London, United Kingdom

183 110.183 How Social Others Form First Impressions of Adults with Autism Spectrum Disorder D. J. Faso[1], K. E. Morrison[2] and N. J. Sasson[3], (1)University of Texas at Dallas, Allen, TX, (2)The University of Texas at Dallas, Dallas, TX, (3)University of Texas at Dallas, Richardson, TX

184 110.184 Humor on the Autism Continuum M. Brosnan[1] and P. Welsh[2], (1)University of Bath, Bath, United Kingdom, (2)Bathspa University, Bath, United Kingdom

185 110.185 Imitation Impairments in Autism Spectrum Disorder: A Social Motivation or Motor-Execution Problem? L. Chetcuti[1], K. Hudry[1], M. Grant[1] and G. Vivanti[1,2], (1)Olga Tennison Autism Research Centre, Melbourne, Australia, (2)Victorian ASELCC, Melbourne, Australia

186 110.186 Increased Eye Contact during Conversation Versus Play in Children and Adolescents with ASD R. M. Jones[1], A. Hamo[1], C. Carberry[1], E. Komarow[1], A. Southerland[2], C. A. Bridges[2], S. Nay[2], E. Stubbs[2], J. M. Rehg[2], A. Rozga[2] and C. Lord[1], (1)Weill Cornell Medical College, White Plains, NY, (2)Georgia Institute of Technology, Atlanta, GA

187 110.187 Increased Synchronous and Sustained Social Interactions Following a Social Skills Intervention for Adolescents with ASD M. Murray[1], A. Pearl[2], Z. Soulliard[1], K. C. Durica[1], A. Heintzelman[3] and S. Brown[1], (1)Penn State Hershey, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA, (3)Penn State College of Medicine, Hershey, PA

188 110.188 Individual Differences in Cooperation and Equality: Data from ASD I. M. Eigsti, University of Connecticut, Storrs, CT

189 110.189 Inference or Integration? Mechanisms of Mental State Understanding in High-Functioning Autism J. Korman[1], B. F. Malle[1], M. Leboyer[2,3], A. Gaman[2,3] and T. Zalla[4], (1)Cognitive, Linguistic, & Psychological Sciences, Brown University, Providence, RI, (2)Department of Psychiatry, INSERM U 955, IMRB & University Paris Est Créteil, AP-HP, Henri Mondor-Albert Chenevier Hospitals, Créteil, France, (3)Fondation FondaMental, French National Science Foundation, Créteil, France, (4) Institut Jean Nicod, CNRS, Ecole Normale Supérieure, PSL Research University, Paris, France

190 110.190 Information-Theoretic Approaches to Optimizing Early Detection of ASD in Toddlers Based on Preferential Attention to Audiovisual Synchrony G. Ramsay[1], A. Abraham[2], J. B. Northrup[3], D. Lin[4], A. Klin[5] and W. Jones[5], (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Vanderbilt University, Nashville, TN, (3)University of Pittsburgh, Pittsburgh, PA, (4) Department of Neurology, Massachusetts General Hospital, Boston, MA, (5)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

191 110.191 Interactions Between Children with Autism Spectrum Disorder and Their Younger Sibling C. Bontinck, P. Warreyn, S. Van der Paelt, E. Demurie and H. Roeyers, Ghent University, Ghent, Belgium

192 110.192 Is Social Categorization the Missing Link Between Weak Central Coherence and Theory of Mind Abilities in Autism? D. Skorich, T. Gash, K. Stalker, A. May, L. Talipski, M. Hall, A. Dolstra and B. Gunningham, Australian National University, Canberra, Australia

193 110.193 Joint Attention Behaviors Across Contexts in Young Children with ASD K. M. Walton and R. Kirchner, The Ohio State University, Columbus, OH

194 110.194 Learning about Objects from Referential Gaze Versus Arrows in Children with and without ASD **J. Bang** and A. Nadig, McGill University, Montreal, QC, Canada

195 110.195 Let Us Face It! a Meta-Analysis of Atypical Viewing Patterns in Individuals with ASD **K. Evers**[1,2,3,4], J. Prinsen[4,5], R. Van der Hallen[1,4] and J. Wagemans[1,4], (1)Laboratory of Experimental Psychology, KU Leuven, Leuven, Belgium, (2)Parenting and Special Education Research Unit, KU Leuven, Leuven, Belgium, (3)Department of Child Psychiatry, UPC-KU Leuven, Leuven, Belgium, (4)Leuven Autism Research (LAuRes), KU Leuven, Leuven, Belgium, (5)Research Group for Neuromotor Rehabilitation, KU Leuven, Leuven, Belgium

196 110.196 Linkage Between Autism-Spectrum Quotient (AQ) of Parents and Autism Severity of Their Children with Autism: An Italian Experience in the Field of the Broader Autism Phenotype **A. Narzisi**[1], M. Pinzino[2], S. Calderoni[3], G. Scarselli[4], J. Barsotti[4], R. Tancredi[5] and F. Muratori[6], (1)IRCCS Stella Maris Institute, Pisa, PI, Italy, (2)University of Pisa, Calambrone, Italy, (3)Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute, Pisa, Italy, (4)IRCCS Stella Maris, Calambrone, Italy, (5) University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (6)IRCCS Stella Maris Institute, Pisa, Italy

197 110.197 Linking Social Motivation to Social Skill: Contributions of Anxiety & Impulsivity **E. E. Neuhaus**[1], A. Kresse[2], E. J. Libsack[2], S. J. J. Webb[3], R. Bernier[3] and K. Pelphrey[4], (1)PO Box 5371, Seattle Children's Hospital, Seattle, WA, (2)Seattle Children's Research Institute, Seattle, WA, (3)University of Washington, Seattle, WA, (4)Yale Child Study Center, Yale School of Medicine, New Haven, CT

198 110.198 Loneliness and Friendship Quality in School-Aged Children with ASD **A. Dominguez**[1], M. Mladenovic[2], W. I. Shih[3], R. Landa[4], C. Lord[5], B. King[6] and C. Kasari[7], (1)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)UCLA, Los Angeles, CA, (3)UCLA, Monrovia, CA, (4)The Kennedy Krieger Institute, Baltimore, MD, (5)Weill Cornell Medical College, White Plains, NY, (6)University of Washington and Seattle Children's Hospital, Seattle, WA, (7)University of California Los Angeles, Los Angeles, CA

199 110.199 Metaperception in Adolescents with High Functioning Autism: Accuracy and Associations with Perceptions of Others **L. V. Usher**[1], C. A. Burrows[1] and H. A. Henderson[2], (1)University of Miami, Coral Gables, FL, (2)University of Waterloo, Waterloo, ON, Canada

200 110.200 Morality in Autism: As Understood through the Empathizing-Systemizing (E-S) Theory **D. M. Greenberg**[1,2], R. Holt[3], C. Allison[3], P. J. Rentfrow[4], D. J. Stillwell[4], M. Kosinski[5], J. Haidt[6] and S. Baron-Cohen[3], (1)Departments of Psychology and Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)Department of Clinical Psychology, City University of New York, New York, NY, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)University of Cambridge, Cambridge, United Kingdom, (5)Stanford University, Stanford, CA, (6)New York University, New York, NY

201 110.201 National Service and University Studies in Young Adults with ASD in Israel **C. Shulman**[1], S. Hanan[2] and J. Koller[3], (1)The School of Social Work, Hebrew University of Jerusalem, Jerusalem, Israel, (2)The Hebrew University of Jerusalem, Jerusalem, Israel, (3)School of Education, Hebrew University of Jerusalem, Jerusalem, Israel

202 110.202 Not Knowing What I Feel: Emotional Empathy in ASD **E. Trimmer**[1], S. McDonald[2] and J. A. Rushby[3], (1)University of New South Wales, Sydney, NSW, Australia, (2)Psychology, University of New South Wales, Sydney, Australia, (3)University of New South Wales, UNSW, Sydney, NSW, Australia

203 110.203 Patterns of Visual Engagement Differ As a Function of Cognitive Profile in School-Aged Children with ASD **J. R. Yurkovic**, I. Stallworthy, E. Coben, W. Jones, A. Klin and S. Shultz, Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

204 110.204 Patterns of Visual Fixation during Moments of High Engagement in School-Age Children with and without Autism Spectrum Disorder **I. Stallworthy**, E. Coben, J. R. Yurkovic, W. Jones, A. Klin and S. Shultz, Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

205 ▸110.205 Perceiving Pain in Others: Altered Physiological and Cognitive Regulation of Distress in ASD **M. Hoogenhout** and S. Malcolm-Smith, Department of Psychology, University of Cape Town, Cape Town, South Africa

206 110.206 Perceptions of Self and Other: Gaze Patterns and Social Perception of Children with and without ASD **R. B. Grossman**, E. Zane, J. Mertens and A. Nikolaidis, Emerson College, Boston, MA

207 110.207 Physical Properties of Social Scenes Modulate Visual Engagement in School-Age Children with Autism Spectrum Disorder **E. Coben**, J. R. Yurkovic, I. Stallworthy, W. Jones, A. Klin and S. Shultz, Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

208 110.208 Promoting Reciprocal Social Interaction through Comprehensive Imitation Training for Nonverbal and Minimally Verbal Children with Autism in Japan **Y. Ishizuka**[1], N. Naoi[2], A. Matsuzaki[2], S. Matsuda[3], Y. Minagawa[4] and J. Yamamoto[4], (1)Japan Society for the Promotion of Science, Tokyo, Japan, (2)CREST, Japan Science and Technology Agency, Tokyo, Japan, (3)University of Tsukuba, Ibaraki, Japan, (4)Dept. of Psychology, Keio University, Tokyo, Japan

209 110.209 Relationship Interest, Knowledge and Experiences Among Young Adults with Autism Spectrum Disorder **N. C. Cheak-Zamora**[1], M. Teti[2], C. Regan[3] and A. Maurer-Batjer[3], (1)University of Missouri, University of Missouri, Columbia, MO, (2)University of Missouri-Columbia, Columbia, MO, (3)University of Missouri, Columbia, MO

210 110.210 Self-Referential Processing in Autism: Does Valence Matter? **C. A. Burrows**[1], L. V. Usher[1] and H. A. Henderson[2], (1)University of Miami, Coral Gables, FL, (2)University of Waterloo, Waterloo, ON, Canada

211 110.211 Sex Differences Across Parent, Clinician, and Performance-Based Measures of Social Behavior in Autism Spectrum Disorder **J. M. Moriuchi**[1], A. Klin[2] and W. Jones[2], (1)Emory University, Atlanta, GA, (2)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

212 110.212 Sex Differences in Social Cognition, Executive Functioning and Repetitive Behaviours in Children and Adolescents with ASD **R. Leung**[1,2], V. M. Vogan[1,3], V. Yuk[1,2] and M. J. Taylor[1], (1) Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada, (2)Psychology, University of Toronto, Toronto, ON, Canada, (3)School and Clinical Child Psychology, Ontario Institute for Studies in Education, Toronto, ON, Canada

213 110.213 Shortcutting Reciprocity: Using Similar, Low-Recursion Learning Styles to Predict Humans and Machines Behavior Underpins Strengths and Weaknesses in ASD. a Computational Psychiatry Study **M. Devaine**[1], J. Daunizeau[2], A. Duquette[3] and **B. Forgeot d'Arc**[4], (1)Brain and Spine Institute, Paris, France, (2)Brain and Spine Institute, INSERM, Paris, France, (3)Psychology, Université de Montréal, Montréal, QC, Canada, (4)Psychiatry, Université de Montréal, Montreal, QC, Canada

214 110.214 Sniff Check! Adults with Greater Autism Symptoms Report Odors As Being More Positive E. N. Keenan, T. Rosen, E. Kang and M. D. Lerner, Stony Brook University, Stony Brook, NY

215 110.215 Social Anxiety in Young People with Autism: Cognitive and Behavioural Models H. Wood[1], S. Rusbridge[1] and A. J. Russell[2], (1) psychology, university of bath, bath, United Kingdom, (2)University of Bath, Bath, United Kingdom

216 110.216 Social Attention and Empathy in High Functioning Women with Autism Spectrum Disorders M. P. Ketelaars[1], A. In't Velt[2], A. Mol[3], H. Swaab[1], F. Bodrij[4] and S. Van Rijn[1], (1)Department of Clinical Child and Adolescent Studies, Leiden University, Leiden, Netherlands, (2)Centrum Autisme Rivierduinen, Leiden, Netherlands, (3)Altrecht, Nieuwegein, Netherlands, (4)Centre for Child and Family Studies, Leiden University, Leiden, Netherlands

217 110.217 Social Functioning in Children with Autism: Which Processes to Measure? A. P. F. Key, D. Jones and B. A. Corbett, Vanderbilt University, Nashville, TN

218 110.218 Student-Teacher Closeness Impacts School Engagement B. Hedges[1], C. Kasari[2], W. I. Shih[3], C. Lord[4], R. Landa[5] and B. King[6], (1)Semel Institute for Neuroscience and Human Behavior, University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)UCLA, Monrovia, CA, (4)Weill Cornell Medical College, White Plains, NY, (5)The Kennedy Krieger Institute, Baltimore, MD, (6)University of Washington and Seattle Children's Hospital, Seattle, WA

219 110.219 Subtle Differences in Explicit Facial Identity and Facial Expression Recognition in Young Adults with ASD S. Vettori[1,2], C. Dillen[1,2], H. Op de Beeck[3], J. Steyaert[1,2] and B. Boets[1,2], (1)Child and Adolescent Psychiatry, KU Leuven, Leuven, Belgium, (2)Leuven Autism Research consortium (LAuRes), KU Leuven, Leuven, Belgium, (3)Laboratory of Biological Psychology, KU Leuven, Leuven, Belgium

220 110.220 Successfully Directing Eye Gaze Does Not Improve Face Recognition Ability in Children with ASD S. J. Thompson, S. R. Leekam, G. Powell and C. Jones, School of Psychology, Cardiff University, Cardiff, United Kingdom

221 110.221 Support Needed for Japanese Adolescent Girls with ASD: The Gap Between Girls with and without ASD Y. Nishio[1] and M. Torii[2], (1)Kobe University, Osaka, Japan, (2)Kobe University, Kobe, Japan

222 110.222 Surfing Safely: An Examination of Online Dating Skills in Young Adults with Autism Spectrum Disorder M. E. Roth[1,2] and J. Gillis[3], (1)Department of Child and Adolescent Psychiatry, The Child Study Center at New York University Langone Medical Center, New York, NY, (2)Department of Psychology, Auburn University, Auburn University, AL, (3)Department of Psychology, Binghamton University, Binghamton, NY

223 110.223 Systematic Evaluation of Self-Esteem, Internalizing Symptoms, and Theory of Mind in Youth with ASD, ADHD, and Typical Development J. B. McCauley[1,2], M. A. Harris[2], M. C. Zajic[3], H. K. Schiltz[2], L. E. Swain-Lerro[3], T. Oswald[1], N. S. McIntyre[3], K. Trzesniewski[2], P. C. Mundy[4] and M. Solomon[5], (1)University of California at Davis MIND Institute, Sacramento, CA, (2)Human Development, University of California at Davis, Davis, CA, (3)University of California at Davis MIND Institute, Davis, CA, (4)Education and Psychiatry, University of California at Davis, Sacramento, CA, (5)MIND Institute, Sacramento, CA

224 110.224 The Extent and Nature of Conflict within the Peer Relationships of Adolescents on the Autism Spectrum F. R. Sedgewick[1], V. Hill[2] and E. Pellicano[1], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)Psychology and Human Development, UCL Institute of Education, London, United Kingdom

225 110.225 The First Step of Reciprocity: Bidirectional Social Influence Intact in ASD. a Computational Psychiatry Study M. Devaine[1], B. Forgeot d'Arc[2], A. Duquette[3] and J. Daunizeau[4], (1)Brain and Spine Institute, Paris, France, (2)Psychiatry, Université de Montréal, Montreal, QC, Canada, (3)Psychology, Université de Montréal, Montréal, QC, Canada, (4)Brain and Spine Institute, INSERM, Paris, France

226 110.226 The Impact of Social Skills Development on Fear of Negative Evaluation and the Prediction of Positive Mental Health Outcomes Among Adolescents with ASD A. McVey[1], B. Dolan[1], A. M. Carson[2], J. S. Karst[3], S. Stevens[4], K. S. Willar[1], C. Caiozzo[1], E. Vogt[1], S. Potts[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2) Autism Center & Psychology Service, Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (3)Children's Hospital of Wisconsin, Wauwatosa, WI, (4)University of Minnesota, Minneapolis, MN

227 110.227 The Impact of Transition from Primary to Secondary School on the Psychosocial Adjustment, Sense of School Membership and Academic Progress of Children with Autism Spectrum Disorders J. S. Hebron, Oxford Road, University of Manchester, Manchester, England, United Kingdom

228 110.228 The Level of Intelligence Modulates the Recognition of Emotional Point-Light Displays in Children with Autism Spectrum Disorder (ASD): A Comparison Between High Functioning and Low Functioning ASD N. Mazzoni[1], T. Del Bianco[1], I. Landi[2], P. Ricciardelli[3,4], R. Actis-Grosso[3,4] and P. Venuti[1], (1)Department of Psychology and Cognitive Science, University of Trento, Rovereto, TN, Italy, (2)MPBA/Center for Information and Communication Technology, Fondazione Bruno Kessler, Trento, TN, Italy, (3)Dept. of Psychology, University of Milano - Bicocca, Milano, MI, Italy, (4)Milan Centre for Neuroscience, Milan, Italy

229 110.229 The Preschool Imitation and Praxis Scale (PIPS): Measure Standardization and Autism Spectrum Disorder (ASD)-Specific Imitation Profiles in High-Functioning Preschoolers M. Vanvuchelen[1] and H. Roeyers[2], (1)Faculty of Medicine and Life Sciences- Rehabilitation Research Centre (REVAL), Hasselt University, Diepenbeek, Belgium, (2) Ghent University, Ghent, Belgium

230 110.230 The Recognition of Self-Conscious Emotions from Situational Contexts in Children with and without Autism Spectrum Disorders D. Davidson[1] and E. Hilvert[2], (1)Loyola University Chicago, Chicago, IL, (2)Loyola University, Chicago, IL

231 110.231 The Relationship Between Interpersonal Synchrony and Social Attention during Rhythmic Inter-Limb Coordination Tasks in Children with Autism Spectrum Disorder S. Izadi-Najafabadi[1], I. Park[2], S. Srinivasan[1], M. Kaur[1], T. Gifford[2], K. L. Marsh[3] and A. N. Bhat[1], (1) University of Delaware, Newark, DE, (2)University of Connecticut, Storrs, CT, (3)Psychology, University of Connecticut, Storrs, CT

232 110.232 The Relationship Between Socialization Skills and Externalizing Problems in Autism Spectrum Disorder N. Shea[1], J. Kopec[2], E. Payne[1], E. McKernan[1] and N. Russo[1], (1)Syracuse University, Syracuse, NY, (2)Psychology, Syracuse University, Syracuse, NY

233 110.233 The Role of Theory of Mind in the Daily Living Skills of Children with ASD T. Estrada[1], R. Bowler[1], E. A. Lovell[1], K. Duskin[1] and B. Wilson[2], (1)Seattle Pacific University, Seattle, WA, (2)Clinical Psychology, Seattle Pacific University, Seattle, WA

234 110.234 The Stare-in-the-Crowd Effect: How We Notice When Others Look at Us and How This Is Affected By Psychopathology E. T. Crehan[1,2], H. E. Frering[1], N. Durand[1], C. Pirro[1], K. Reeves[1] and R. R. Althoff[3], (1)Psychology, University of Vermont, Burlington, VT, (2) Psychology, University of Alabama, Birmingham, AL, (3)Psychiatry, Psychology, and Pediatrics, University of Vermont, Burlington, VT

235 110.235 The Use of Ipads to Enhance Joint Attention Skills in Children with Autism Spectrum Disorder (ASD) C. Mangafa, L. Moody, A. Woodcock and A. Woolner, School of Art and Design, Coventry University, Coventry, United Kingdom

236 110.236 Understanding Social Versus Private Intention: Exploring the Neural Correlates of Intention Understanding Based on Intentional Content N. I. Berger, Michigan State University, East Lansing, MI

237 110.237 Using Facial Expression Analysis Software to Examine the Relationship Between Abnormal Facial Expressions and Alexithymia in Children with and without Autism D. A. Trevisan[1], M. Bowering[2] and E. Birmingham[1], (1)Faculty of Education, Simon Fraser University, Burnaby, BC, Canada, (2)Linguistics, Simon Fraser University, Burnaby, BC, Canada

238 110.238 Using Qualitative Methods to Explore the Subjective Experience of Eye Contact in Autistic Teens and Adults D. A. Trevisan[1], C. Lin[2], N. K. Roberts[1] and E. Birmingham[1], (1)Faculty of Education, Simon Fraser University, Burnaby, BC, Canada, (2)Psychology, Simon Fraser University, Burnaby, BC, Canada

239 110.239 Using the Social Responsiveness Scale to Characterize Social Deficits in Children Referred for Aggressive Behavior M. Tudor, K. Ibrahim, E. Bertschinger, A. Sedlack and D. G. Sukhodolsky, Yale Child Study Center, Yale School of Medicine, New Haven, CT

240 110.240 Wearable Devices for Reading Facial Expression and Detecting Face-to-Face Behavior of Children with ASD K. Suzuki, Center for Cybernics Research, University of Tsukuba, Tsukuba, Japan

Poster Session
111 - Miscellaneous
11:30 AM - 1:30 PM - Hall A

241 111.241 Home-Based Parent-Implemented Early Intervention for Young Children with Autism Spectrum Disorders: A Systematic Review and Meta-Analysis D. A. Prykanowski, B. Reichow, J. R. Martinez and K. Marsh, University of Florida, Gainesville, FL

Oral Session - 1A
112 - Gene-Environment Interactions that Contribute to ASD
1:45 PM - 2:35 PM - Hall B

1:45 112.001 Gene-Environment Interactions in ASD: PBDE Exposures and DNA Methylation in the Early Autism Risk Longitudinal Investigation K. M. Bakulski[1], A. P. Feinberg[2], J. Feinberg[2], E. Schriver[3], S. C. Brown[4], L. A. Croen[5], I. Hertz-Picciotto[6], C. J. Newschaffer[3] and M. D. Fallin[7], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Johns Hopkins University, Baltimore, MD, (3)A.J. Drexel Autism Institute, Philadelphia, PA, (4)Mental Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, (5)Division of Research, Kaiser Permanente, Oakland, CA, (6)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (7)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

1:57 112.002 Polygene – By – Prenatal Environment Interaction in Autism Spectrum Disorder Using Copy Number Variant Burden B. Sheppard[1], K. Benke[2], A. B. Singer[3], L. A. Croen[4], J. L. Daniels[3], C. J. Newschaffer[5], A. M. Reynolds[6], D. E. Schendel[7], L. A. Schieve[8], C. Ladd-Acosta[9] and M. D. Fallin[10,11], (1)Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, (2)Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (3)University of North Carolina, Chapel Hill, NC, (4)Division of Research, Kaiser Permanente, Oakland, CA, (5)A.J. Drexel Autism Institute, Philadelphia, PA, (6)University of Colorado - Denver, Aurora, CO, (7)Aarhus University, Aarhus, Denmark, (8)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (9)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (10)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (11)Johns Hopkins Bloomberg School of Public Health (JHBSPH), Baltimore, MD

2:09 112.003 Dysregulation of RORA, a Risk Gene for ASD, By "Low-Dose" Exposure to the Herbicide Atrazine, an Endocrine Disrupting Compound K. Kocher, K. Janczura and V. Hu, Dept. of Biochemistry and Molecular Medicine, The George Washington University, Washington, DC

2:21 112.004 Maternal Immune Activation Dysregulation of the Fetal Brain Transcriptome and Relevance to the Pathophysiology of Autism M. V. Lombardo[1,2], E. Courchesne[3] and T. Pramparo[4], (1) Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychology and Center for Applied Neuroscience, University of Cyprus, Nikosia, Cyprus, (3) Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA, (4)Autism Center of Excellence, UCSD, La Jolla, CA

Oral Session - 1B

113 - Mouse Models of Environmental and Genetic Risk Factors in Autism Spectrum Disorder
2:40 PM - 3:30 PM - Hall B

2:40 113.001 Autism-Relevant Behaviors in the Antigen-Driven Mouse Model of Maternal Autoantibody Related Autism K. L. Jones[1], J. L. Silverman[2], M. Yang[3], E. Edmiston[2], J. N. Crawley[4] and J. Van de Water[5], (1)University of California at Davis, Sacramento, CA, (2)UC Davis, Sacramento, CA, (3)UC Davis School of Medicine, Sacramento, CA, (4)Psychiatry and Behavioral Sciences, MIND Institute, Sacramento, CA, (5)University of California at Davis MIND Institute, Davis, CA

2:52 113.002 Prenatal Immune Activation Alters the Adult Neural Epigenome but Can be Partly Stabilized By a n-3 Polyunsaturated Fatty Acid Diet G. M. McAlonan[1], B. Paul[2], Q. Li[3], G. Hongsheng[4], C. Wong[5], J. Mill[6] and P. C. Sham[4], (1)Department of Forensic and Neurodevelopmental Science, IoPPN, KCL, London, United Kingdom, (2)The University of Hong Kong, hong kong, Hong Kong, (3)Department of Psychiatry, The University of Hong Kong, Hong Kong, Hong Kong, (4)Department of Psychiatry, University of Hong kong, Hong Kong, Hong Kong, (5)MRC SGDP Centre, Institute of Psychiatry, King's College London, London, United Kingdom, (6) MRC Social, Genetic and Developmental Psychiatry Centre, King's College London, London, United Kingdom

3:04 113.003 Maternal Stress Causes Behavioral Changes in C57BL/6J Mice K. K. Chadman[1] and L. Leone[2], (1)Developmental Neurobiology, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Developmental Neuroscience, College of Staten Island, City University of New York, Staten Island, NY

3:16 113.004 Aberrant Sensory Processing in Mice Lacking Autism Associated Met Receptor Function: A Role for Insulin? F. S. Lo, R. Erzurumlu and E. M. Powell, Anatomy & Neurobiology, University of Maryland - Medicine, Baltimore, MD

Oral Session - 2A

114 - Sensory and Motor Phenotypes Useful for Biomarkers and Parsing Heterogeneity
1:45 PM - 2:35 PM - Room 307

1:45 114.001 Common Sensory Endophenotypes Spanning Sensory Processing Disorder and the Autism Spectrum J. J. Foxe[1,2] and S. Molholm[3], (1)Albert Einstein College of Medicine, Bronx, NY, (2) Department of Neurobiology and Anatomy, University of Rochester Medical Center, Rochester, NY, (3)Neuroscience and Pediatrics, Albert Einstein College of Medicine, Bronx, NY

1:57 114.002 Reduced GABA Levels Predict Altered Sensory Function in Children with Autism Spectrum Disorder N. A. Puts[1,2], E. L. Wodka[3], A. D. Harris[4], D. Crocetti[3], M. Tommerdahl[5], R. A. Edden[6] and S. H. Mostofsky[7], (1)Radiology and Radiological Science, Johns Hopkins University, Baltimore, MD, (2)FM Kirby Center for Functional Brain Imaging, Kennedy Krieger Institute, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD, (4) Department of Radiology, University of Calgary, Calgary, AB, Canada, (5)University of North Carolina, Chapel Hill, NC, (6)Johns Hopkins University School of Medicine, Baltimore, MD, (7)Johns Hopkins School of Medicine, Baltimore, MD

2:09 114.003 The Variability of Restricted Repetitive Behavior in Neurodevelopmental and Neuropsychiatric Disorders D. W. Evans, Geisinger Health System, Lewisburg, PA

2:21 114.004 Sensorimotor Abnormalities in Biological Mothers and Fathers of Individuals with ASD L. M. Schmitt[1,2], S. P. White[2,3], K. C. Conroy[2], J. A. Sweeney[2,3] and M. W. Mosconi[4], (1)UT Southwestern Medical Center, Dallas, TX, (2)Center for Autism and Developmental Disabilities, Dallas, TX, (3)Center for Autism and Developmental Disabilities, University of Texas Southwestern, Dallas, TX, (4)Dole Human Development Center, University of Kansas, Lawrence, KS

Oral Session - 2B

115 - Early Dysmaturation of Sensory and Motor Systems as Critical Predictors of Symptom Severity
2:40 PM - 3:30 PM - Room 307

2:40 115.001 Cataloguing and Characterizing Interests in Typically Developing Toddlers and Toddlers Who Develop ASD J. T. Elison[1], J. J. Wolff[2], E. P. Teska[1], K. Botteron[3], A. M. Estes[4], H. C. Hazlett[5], J. Pandey[6], R. T. Schultz[7], L. Zwaigenbaum[8], J. Piven[9] and .. The IBIS Network[9], (1)Institute of Child Development, University of Minnesota, Minneapolis, MN, (2)University of Minnesota, Minneapolis, MN, (3)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (4)University of Washington Autism Center, Seattle, WA, (5)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)Children's Hospital of Philadelphia, Philadelphia, PA, (7)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (8)University of Alberta, Edmonton, AB, Canada, (9)University of North Carolina at Chapel Hill, Chapel Hill, NC

2:52 115.002 Infant Motor Skill and ASD E. S. LeBarton[1] and R. Landa[2], (1)Kennedy Krieger Institute & Johns Hopkins School of Medicine, Baltimore, MD, (2)The Kennedy Krieger Institute, Baltimore, MD

3:04 115.003 Posture Development from 6 to 14 Months in Infants with Vs. without Risk for ASD N. B. Leezenbaum and J. M. Iverson, University of Pittsburgh, Pittsburgh, PA

3:16 115.004 Do Restricted and Repetitive Behaviors during Early Childhood Predict School-Age Executive Functioning Among Children with Autism Spectrum Disorders? E. Troyb[1], K. Knoch[2], L. Herlihy[3] and D. A. Fein[4], (1)Brown University, Providence, RI, (2) University of Connecticut, Storrs, CT, (3)Hospital For Special Care, New Britain, CT, (4)Psychology, University of Connecticut, Storrs, CT

Oral Session - 3A

116 - Variation in Early Trajectories of ASD
1:45 PM - 2:35 PM - Room 308

1:45 116.001 Different Developmental Trajectories of ASD: Slow and Rapid Onset of Symptoms in Toddlers from the General Population E. C. Bacon[1], L. Schreibman[2], A. C. Stahmer[3], C. Carter[1], E. Courchesne[1] and K. Pierce[1], (1)Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA, (2)University of California San Diego, La Jolla, CA, (3)University of California at Davis MIND Institute, Sacramento, CA

1:57 116.002 Characterizing Early Developmental Trajectories in Tuberous Sclerosis Complex K. J. Varcin[1], D. Senturk[2], M. Sahin[3], J. Y. Wu[4] and C. A. Nelson[5], (1)Harvard Medical School, Boston Children's Hospital, Cambridge, MA, (2)Biostatistics, University of California, Los Angeles, Los Angeles, CA, (3)Department of Neurology, Boston Children's Hospital, Boston, MA, (4)UCLA, Los Angeles, CA, (5)Boston Children's Hospital/Harvard Medical School, Boston, MA

2:09 116.003 Longitudinal Development of Social Visual Engagement in Infants Later Diagnosed with ASD L. A. Olson[1], A. Klin[2], S. Shultz[2] and W. Jones[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Decatur, GA, (2)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

2:21 116.004 Longitudinal Stability of Quantitative Autistic Traits in Toddler Twins N. Marrus[1], Y. Zhang[2], A. Glowinski[3], T. Jacob[4], S. Kennon-McGill[3], S. Sant[5], T. Gray[5], A. Haider[2] and J. N. Constantino[2], (1)Washington University School of Medicine, Webster Groves, MO, (2)Washington University School of Medicine, Saint Louis, MO, (3)Washington University in St. Louis, St. Louis, MO, (4)Family Research Center, VA Palo Alto Health Care System, Menlo Park, CA, (5)Washington University School of Medicine, St. Louis, MO

Oral Session - 3B

117 - Early Markers of ASD: Laboratory and Community Studies
2:40 PM - 3:30 PM - Room 308

2:40 117.001 Combining Multiple Eye Tracking Measures at 6 Months in Infant Siblings: Associations with Outcomes F. Shic, Q. Wang, S. Macari and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

2:52 117.002 Computer Vision Detects Delayed Social Orienting in Toddlers with Autism K. Campbell[1], K. L. Carpenter[1], J. Hashemi[2], S. Espinosa[2], S. Marsan[1], J. Schaich Borg[3], A. Harris[1], Z. Chang[2], Q. Qiu[2], M. Tepper[2], R. Calderbank[2], J. P. Baker[4], G. Sapiro[2], H. Egger[3] and G. Dawson[1], (1)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (2)Duke University Pratt School of Engineering, Durham, NC, (3)Department of Psychiatry and Behavioral Sciences, Duke University School of Medicine, Durham, NC, (4)Duke University School of Medicine, Department of Pediatrics, Durham, NC

3:04 117.003 Attention Capture By Faces within a Naturalistic Scene in Toddlers with ASD L. DiNicola, F. Shic, S. F. Fontenelle, K. K. Powell, S. Macari and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

3:16 117.004 Social Communication Screening and Parent Concern at 9-21 Months of Age: Comparison of a Large Primary Care Sample and Children Later Diagnosed with ASD A. M. Wetherby[1], D. Dow[2], E. A. Allgood[3], E. Slate[3], A. Delehanty[4], T. N. Day[2] and C. E. Rice[5], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Psychology, Florida State University, Tallahassee, FL, (3)Statistics, Florida State University, Tallahassee, FL, (4) Communication Science & Disorders, Florida State University, Tallahassee, FL, (5)Emory Autism Center, Decatur, GA

Oral Session - 4A

118 - Sociodemographic Diversity and Screening, Diagnosis, and Clinical Presentation
1:45 PM - 2:35 PM - Room 309

1:45 ▸118.001 Parental Satisfaction with Diagnostic Evaluations: The Effects of Diagnosis, Race, and Education M. Khowaja[1], R. K. Ramsey[2] and D. L. Robins[3], (1)Georgia State University, Atlanta, GA, (2)Psychology, Georgia State University, Atlanta, GA, (3) Drexel University, Philadelphia, PA

1:57 ▸118.002 Examining the Cross-Cultural Accuracy of Three Early Autism Screening Instruments J. McDonough[1], J. M. Campbell[2], L. Gardner[3] and L. Murphy[3], (1)Irving Independent School District, Irving, TX, (2)University of Kentucky, Lexington, KY, (3)Boling Center for Developmental Disabilities and Department of Psychiatry - University of Tennessee Health Science Center, Memphis, TN

2:09 ▸118.003 Disparities in the Clinical Characterization Profiles of African American Vs Caucasian Individuals with Autism C. A. Saulnier[1], J. M. Moriuchi[2], J. Berman[3], M. Reid[4] and A. Klin[5], (1) Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Psychology, Emory University, Atlanta, GA, (3)Children's Healthcare of Atlanta, Atlanta, GA, (4)Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (5) Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

2:21 ▸118.004 Do Domains of Developmental Risk Identified By Parents during ASD Screening and Areas of Risk Identified during ASD Diagnostic Assessment Differ: Findings from a Case Series of Ethnically Diverse, Low-Income Toddlers S. J. Jerome[1], J. Sandler[1], S. broder-Fingert[2], K. Devlin[1] and E. Feinberg[1], (1)Community Health Sciences, Boston University School of Public Health, Boston, MA, (2)Division of General Pediatrics, Boston University School of Medicine, Boston, MA

Oral Session - 4B

119 - International and Cross-cultural Perspectives on Screening and Diagnosis

2:40 PM - 3:30 PM - Room 309

2:40 ▸119.001 Examining Potential Measurement Biases in the Autism Diagnostic Observation Schedule for Race, Ethnicity and Gender **A. J. Harrison**[1], M. R. Naughton[1] and R. N. Jones[2], (1) University of Georgia, Athens, GA, (2)Warren Alpert Medical School, Brown University, Providence, RI

2:52 ▸119.002 The Diagnosis of Autism Spectrum Disorder in Low and Middle Income Countries: Concordance of Assessment Instruments in Jamaica **M. E. Samms-Vaughan**[1], M. H. Rahbar[2], A. S. Dickerson[3], K. A. Loveland[4], D. A. Pearson[4], J. Bressler[2], S. Shakespeare-Pellington[1], M. L. Grove[5], C. Coore-Desai[1], J. A. T. Reece[1], E. Boerwinkle[2] and M. Hessabi[3], (1)Department of Child and Adolescent Health, The University of the West Indies, Mona Campus, Kingston 7, Jamaica, (2)Division of Epidemiology, Human Genetics, and Environmental Sciences (EHGES), University of Texas School of Public Health at Houston, Houston, TX, (3) Biostatistics/Epidemiology/Research Design (BERD) Component, Center for Clinical and Translational Sciences (CCTS), University of Texas Health Science Center at Houston, Houston, TX, (4) Psychiatry & Behavioral Sciences, University of Texas Medical School at Houston, Houston, TX, (5)University of Texas School of Public Health at Houston, Houston, TX

3:04 ▸119.003 Distributions of SRS-Measured Autistic Traits in a Taiwanese Population of Children Aged 6-8 Years **P. C. Tsai**[1], L. C. Lee[2], R. A. Harrington[3] and F. W. Lung[4], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Johns Hopkins University, Baltimore, MD, (4)Calo Psychiatric Center, Pingtung, Taiwan

3:16 ▸119.004 Counting without the Numbers: Venezuelan Attempts at Prevalence Studies **C. Montiel-Nava**[1,2], Z. Gonzalez[1] and J. A. Chacin[3], (1)Psychology, La Universidad del Zulia, Maracaibo, Venezuela, (2)Center for Graduate Studies, Universidad Latina, Panama, Panama, (3)La Universidad del Zulia, Maracaibo, Venezuela

Oral Session - 5A

120 - Social Cognition and Social Behavior

1:45 PM - 2:35 PM - Room 310

1:45 120.001 Social Reinforcement Learning and Its Neural Modulation By Oxytocin in Healthy Young Adults **J. A. Kruppa**[1,2], A. Gossen[1,2], N. Großheinrich[1], H. Schopf[1], G. Kohls[1], G. R. Fink[2], B. Herpertz-Dahlmann[1], K. Konrad[1,2] and M. Schulte-Rüther[1,2], (1) Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (2)Cognitive Neuroscience, Institute of Neuroscience and Medicine (INM-3), Jülich Research Center, Jülich, Germany

1:57 120.002 Influences of Others› Gaze Behaviors on Attentional Allocation during Activity Monitoring in Adults with and without ASD **C. Foster**[1], M. del Valle Rubido[2], J. McCracken[3], E. Hollander[4], L. Scahill[5], L. Boak[6], O. Khwaja[2], F. Bolognani[7], P. Fontoura[8], D. Umbricht[2], S. S. Jeste[9], E. S. Kim[10], R. J. Jou[11], C. A. Wall[1] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)F. Hoffmann - La Roche AG, Basel, Switzerland, (3)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)Albert Einstein College of Medicine, Mamaroneck 10543, NY, (5)Pediatrics, Marcus Autism Center, Atlanta 30329, GA, (6)F. Hoffmann-La Roche AG, Basel, Switzerland, (7)F. Hoffmann-La Roche, Basel, Switzerland, (8) Roche Pharma Research and Exploratory Development, Basel, Switzerland, (9)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (10)The Children's Hospital of Philadelphia, Philadelphia, PA, (11)Yale Child Study Center, Yale School of Medicine, New Haven, CT

2:09 120.003 Quantitative Assessment of Socio-Affective Dynamics in Autism Using Interpersonal Physiology **O. O. Wilder-Smith**[1], J. C. Sullivan[1], R. V. Palumbo[1], C. DiStefano[2], A. Gulsrud[3], C. K. McCracken[4], C. Kasari[5] and M. S. Goodwin[1], (1)Northeastern University, Boston, MA, (2)Psychiatry and Biobehavioral Sciences, University of California Los Angeles, Los Angeles, CA, (3)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)University of California, Los Angeles, El Segundo, CA, (5) University of California Los Angeles, Los Angeles, CA

2:21 120.004 Reduced Reward Related Response to Imitation in Autism Spectrum Conditions **B. Chakrabarti**[1], J. Neufeld[1,2] and C. T. Hsu[1], (1)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom, (2)Center of Neurodevelopmental Disorders, Karolinska Institutet, Stockholm, Sweden

Oral Session - 5B

121 - New Frontiers in Infant Brain Functional Imaging

2:40 PM - 3:30 PM - Room 310

2:40 121.001 Trajectories of Frontal Gamma Power from 3 to 36 Months in Infants Later Diagnosed with Autism Spectrum Disorder **A. R. Levin**[1], H. M. O'Leary[2], K. J. Varcin[3], M. K. Crossman[4], H. Tager-Flusberg[5] and C. A. Nelson[6], (1)Boston Children's Hospital, Brookline, MA, (2)Neurology, Boston Children's Hospital, Boston, MA, (3)Harvard Medical School, Boston Children's Hospital, Cambridge, MA, (4)Boston Children's Hospital, Watertown, MA, (5)Boston University, Boston, MA, (6)Boston Children's Hospital/ Harvard Medical School, Boston, MA

2:52 121.002 Abnormal Lateralisation in Infants with High-Risk for Autism As Assessed with High-Density EEG Source Reconstruction **C. O'Reilly**[1], M. Elsabbagh[2] and T. B. Team[3], (1)École Polytechnique Fédérale de Lausanne, Geneva, GE, Switzerland, (2)McGill University, Montreal, PQ, Canada, (3) Birkbeck, University of London, London, United Kingdom

3:04 121.003 Restricted Behavior and Brain Functional Connectivity in Infants and Toddlers at Risk for Developing Autism Spectrum Disorder **A. T. Eggebrecht**[1,2], C. J. McKinnon[2,3], A. Todorov[4], J. J. Wolff[5], J. T. Elison[5], C. M. Adams[6], A. Z. Snyder[7], A. M. Estes[8], L. Zwaigenbaum[9], K. Botteron[10], A. C. Evans[11], H. C. Hazlett[12], S. Dager[13], S. J. Paterson[14], R. T. Schultz[15], M. Styner[16], G. Gerig[17], .. The IBIS Network[16], B. L. Schlaggar[4], S. E. Petersen[4], J. Piven[16,18] and J. R. Pruett[18,19], (1)Washington University School of Medicine, St Louis, MO, (2)Shared First Author, St Louis, MO, (3)Washington University in St. Louis, St. Louis, MO, (4)Washington University School of Medicine, St. Louis, MO, (5)University of Minnesota, Minneapolis, MN, (6)Washington University in St. Louis, St Louis, MO, (7)Radiology, Washington University School of Medicine, St. Louis, MO, (8)University of Washington Autism Center, Seattle, WA, (9)University of Alberta, Edmonton, AB, Canada, (10)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (11)Montreal Neurological Institute, Montreal, QC, Canada, (12)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (13)University of Washington School of Medicine, Seattle, WA, (14)Department of psychology, Temple university, Philadelphia, PA, (15)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (16)University of North Carolina at Chapel Hill, Chapel Hill, NC, (17)New York University, New York, NY, (18)Shared Senior Author, Carrboro, NC, (19) Washington University School of Medicine, Saint Louis, MO

3:16 121.004 Gross Motor Function and Brain Functional Connectivity in Infants and Toddlers at Risk for ASD **N. Marrus**[1], A. T. Eggebrecht[2], A. Todorov[3], J. T. Elison[4], J. J. Wolff[4], W. Gao[5], J. Pandey[6], M. D. Shen[7], M. R. Swanson[7], R. Emerson[8], C. L. Klohr[9], C. M. Adams[10], A. Z. Snyder[11], A. M. Estes[12], L. Zwaigenbaum[13], K. Botteron[14], R. McKinstry[3], J. N. Constantino[15], A. C. Evans[16], H. C. Hazlett[17], S. Dager[18], S. J. Paterson[19], R. T. Schultz[20], M. Styner[7], G. Gerig[21], .. The IBIS Network[7], B. L. Schlaggar[3], S. E. Petersen[3], J. Piven[7] and J. R. Pruett[15], (1)Washington University School of Medicine, Webster Groves, MO, (2)Washington University School of Medicine, St Louis, MO, (3)Washington University School of Medicine, St. Louis, MO, (4)University of Minnesota, Minneapolis, MN, (5)Cedars Sinai Medical Center, Los Angeles, CA, (6)Children's Hospital of Philadelphia, Philadelphia, PA, (7) University of North Carolina at Chapel Hill, Chapel Hill, NC, (8) University of North Carolina - Chapel Hill, Chapel Hill, NC, (9) Washington University, St. Louis, MO, (10)Washington University in St. Louis, St Louis, MO, (11)Radiology, Washington University School of Medicine, St. Louis, MO, (12)University of Washington Autism Center, Seattle, WA, (13)University of Alberta, Edmonton, AB, Canada, (14)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (15)Washington University School of Medicine, Saint Louis, MO, (16)Montreal Neurological Institute, Montreal, QC, Canada, (17)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (18)University of Washington School of Medicine, Seattle, WA, (19)Department of psychology, Temple university, Philadelphia, PA, (20)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (21)New York University, New York, NY

Keynote Address and INSAR Awards Ceremony Lifetime Achievement Awardee

4:00 PM - 5:30 PM - Hall B

4:00 Awards Ceremony

4:30 Advocate Awardee Address
Thomas Insel, Verily

5:00 Lifetime Achievement Awardee Address
Christopher Gillberg, University of Gothenburg, Sweden

Poster Session

122 - Cognition: Attention, Learning, Memory
5:30 PM - 7:00 PM - Hall A

1 122.001 Altered Pupil Responsivity to a Gaze Following Task in Children with an Autism Spectrum Disorder **M. A. Braeken**, L. Van Schuerbeeck and M. Vanvuchelen, Faculty of Medicine and Life Sciences - Rehabilitation Research Center (REVAL), Hasselt University, Diepenbeek, Belgium

2 122.002 A Profile of Visual Illusion Susceptibility in ASD **O. Landry**[1], I. Sperandio[2], S. Crewther[3] and P. Chouinard[1], (1)La Trobe University, Bendigo, Australia, (2)University of East Anglia, Norwich, United Kingdom, (3)La Trobe University, Melbourne, Australia

3 122.003 Accessing Meaning of Ambigous Homographs Embedded within Sentences in Children with ASD **R. E. Beabout**, Psychology, Marietta College, Marietta, OH

4 122.004 Adults with Autism Spectrum Disorders Imitate Means to an End: The Effects of Sensorimotor Integration and Interference **M. Andrew**[1], S. J. Bennett[2], D. Elliott[2] and S. J. Hayes[2], (1)Liverpool John Moores University, Rossendale, England, United Kingdom, (2)Research Institute for Sport and Exercise Sciences, Liverpool John Moores University, Liverpool, United Kingdom

5 122.005 Age-Related Differences in Local and Global Processes for Social and Non-Social Information in Autism: How Do Children and Adolescents Differ? **J. Guy**[1,2], J. Mettler[2,3], D. Tullo[2,3], L. Mottron, M.D.[4] and A. Bertone[2,3,5], (1)Integrated Program in Neuroscience, McGill University, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism & Development, Montreal, QC, Canada, (3)Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (4) Centre d'Excellence en Troubles Envahissants du Développement, Montréal, QC, Canada, (5)Centre d'excellence en Troubles envahissants du développement, Montréal, QC, Canada

6 122.006 Assessing Temporal and Contextual Factors Affecting Preferential Attention to Faces in Individuals with High and Low Levels of Autistic Traits **C. I. Mitchell**, C. Dickter and J. Burk, College of William & Mary, Williamsburg, VA

7 122.007 Atypical Motion Sensitivity Characterized By Larger Receptive Fields in Autism Spectrum Disorder W. J. Park[1], K. B. Schauder[2], L. Bennetto[2] and D. Tadin[1], (1)Brain and Cognitive Sciences, University of Rochester, Rochester, NY, (2)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY

8 122.008 Auditory Spatial Attention and Symptom Severity in Children with Autism Spectrum Disorder L. N. Soskey[1], P. D. Allen[2] and L. Bennetto[1], (1)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (2)Department of Otolaryngology, University of Rochester Medical Center, Rochester, NY

9 122.009 Childhood Profiles of Cognitively Gifted Individuals with Autism Spectrum Disorder J. Gilger[1], J. Kaboski[2] and M. Cain[3], (1)School of Social Sciences, Humanities & Arts, University of California - Merced, Merced, CA, (2)University of Notre Dame, Notre Dame, IN, (3)Psychology, University of Notre Dame, South Bend, IN

10 ▸ 122.010 Cognitive Remediation Therapy in Autism Spectrum Disorder: Effects on Working Memory M. Hajri, Z. Abbes, H. Ben Yahia, S. Ouenness, S. Halayem and A. Bouden, psychiatric hospital Razi, Tunis, Tunisia

11 122.011 Comparison and Structural Alignment Processes of Learning New Relational Concepts in Children with ASD O. E. Hetzroni and M. Hessler, Special Education, University of Haifa, Haifa, Israel

12 122.012 Concept Identification and Formation in High-Functioning Adolescents with ASD J. Beck[1], J. Shapleton[2], M. South[1] and M. Solomon[3], (1)Brigham Young University, Provo, UT, (2)Duke University, Durham, NC, (3)MIND Institute, Sacramento, CA

13 122.013 Differentiating Old from New-but-Similar: Tracking Episodic Memory Profiles in Children with Autism H. N. Wakeman[1], M. Rosenberg-Lee[1], M. South[2], B. Kirwan[2] and V. Menon[1], (1)Stanford University School of Medicine, Stanford, CA, (2)Brigham Young University, Provo, UT

14 122.014 Do Individuals Diagnosed with Autism Spectrum Disorders Have an Advantage in Real-World Visual Search Tasks? N. C. Russell, K. G. Stephenson, T. Shuman, A. Ward, L. Peacock, M. South and S. Luke, Brigham Young University, Provo, UT

15 122.015 Examining the Complex Experiences of Parents of Gifted Students with Autism Spectrum Disorder L. D. Rubenstein[1] and S. M. Wilczynski[2], (1)Educational Psychology, Ball State University, Muncie, IN, (2)Ball State University, Muncie, IN

16 122.016 Examining the Executive Function Profile of Children with Autism, Autism Plus Significant Symptoms of Attention Deficit Disorder, and Typical Development S. Faja[1], G. Greco[2] and T. Clarkson[3], (1)Boston Children's Hospital/Harvard Medical School, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3)Boston Children's Hospital: Harvard Med School, Boston, MA

17 122.017 Executive Function Deficits Are Associated with ADHD Symptoms Whilst Theory of Mind Is Associated with ASD Symptoms in Adolescents with ASD S. Lukito[1], C. Jones[2], A. Pickles[3], G. Baird[4], F. Happé[5], T. Charman[6] and E. Simonoff[6], (1)Child & Adolescent Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)School of Psychology, Cardiff University, Cardiff, United Kingdom, (3)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (4) Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom, (5)Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (6)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

18 122.018 Executive Function in Autism: A Systematic Review and Meta-Analysis A. M. Nader[1], V. D. Therien[2], M. E. Leclerc[3], Z. Khalladi[4], S. Grot[5], D. Luck[6] and I. Soulières[7], (1)Psychology, University of Quebec at Montreal, Montreal, QC, Canada, (2)Psychology, University du Québec à Montréal (UQAM), Terrebonne, QC, Canada, (3)Centre de recherche de l'Institut universitaire en santé mentale de Montréal, Montréal, QC, Canada, (4)Bishop University, Montreal, QC, Canada, (5)Centre de recherche de l'Institut universitaire en santé mentale de Montréal, 7331, rue Hochelaga, QC, Canada, (6)Psychiatry, University of Montreal, Montréal, QC, Canada, (7)University of Quebec in Montreal, Montreal, QC, Canada

19 122.019 Externalizing Behaviors, Attention Shifting, and ADHD Symptoms in Young Children with ASD E. F. Geib[1], H. Dauterman[2], W. Mason[1], R. Bowler[3] and B. Wilson[1], (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Seattle Pacific University Department of Clinical Psychology, Seattle, CA, (3)Seattle Pacific University, Seattle, WA

20 122.020 Facial Affect Recognition in Autism, ADHD and Typical Development S. Berggren[1], A. C. Engström[2] and S. Bolte[3], (1)Karolinska Institutet, Stockholm, Sweden, (2)BUP Södertälje, Child and Adolescent Psychiatry Stockholm,, Södertälje, Sweden, (3)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden

21 122.021 Impact of Autism Diagnosis on Neural Systems of Nonverbal Fluid Reasoning in Adolescent Male Monozygotic Twins L. Kalbfleisch[1], J. Roberts[2] and A. Loughan[3], (1)Pediatrics, The George Washington University School of Medicine and Health Sciences, Washington, D.C., DC, (2)Johns Hopkins University School of Medicine, Baltimore, MD, (3)Virginia Commonwealth University School of Medicine, Virginia Commonwealth University School of Medicine, VA

22 122.022 Implicit Processing of Category Information in Autism O. E. Parsons[1] and S. Baron-Cohen[2], (1)University of Cambridge, Cambridge, England, United Kingdom, (2)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

23 122.023 Individual Differences in Executive Function Are Predictive of Autistic Children›s School Readiness L. Kenny[1], H. Lichwa[1], E. Klaric[1], J. L. Brede[1], R. McMillin[1] and E. Pellicano[1,2], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)School of Psychology, University of Western Australia, WA, Australia

24 122.024 Investigating Potential Biases in Self-Evaluations of Reading and Math Performance By Individuals with ASD, ADHD, and Typical Development J. B. McCauley[1,2], M. C. Zajic[3], H. K. Schiltz[2], L. E. Swain-Lerro[3], M. A. Harris[2], T. Oswald[1], N. S. McIntyre[3], K. Trzesniewski[2], P. C. Mundy[4] and M. Solomon[5], (1)University of California at Davis MIND Institute, Sacramento, CA, (2)Human Development, University of California at Davis, Davis, CA, (3)University of California at Davis MIND Institute, Davis, CA, (4)Education and Psychiatry, University of California at Davis, Sacramento, CA, (5)MIND Institute, Sacramento, CA

25 122.025 Latent Profile Analysis Reveals Distinct Executive Function Profiles Across Children with ASD and ADHD D. R. Dajani[1], M. B. Nebel[2,3], S. H. Mostofsky[4] and L. Q. Uddin[5], (1)University of Miami, Miami, FL, (2)Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, (3)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (4)Johns Hopkins School of Medicine, Baltimore, MD, (5)University of Miami, Coral Gables, FL

26 122.026 Links Between Hyperfocused Attention, Pupillometry, and the Locus Coeruleus Across the Broader Autism Phenotype A. S. DiCriscio and V. Troiani, Geisinger Autism & Developmental Medicine Institute, Lewisburg, PA

27 122.027 Metacognitive Awareness of Facial and Vocal Affect in Higher-Functioning Children and Adolescents with Autism Spectrum Disorder C. McMahon[1], R. Schatz[2], J. Haut[2], A. Merrill[2] and T. Otero[2], (1)Hamilton College, Clinton, NY, (2)Indiana University - Bloomington, Bloomington, IN

28 122.028 Motion Prediction Abilities in Autism Spectrum Disorder K. B. Schauder[1], W. J. Park[2], O. Kwon[2], D. Tadin[2] and L. Bennetto[1], (1) Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (2)Brain and Cognitive Sciences, University of Rochester, Rochester, NY

29 122.029 Neural Correlates Underlying Binding of Information in Autism: Preliminary Results M. E. Leclerc[1,2], S. Grot[3,4], I. Soulières[5] and D. Luck[2,3], (1)Psychiatry, University of Montreal, Montreal, QC, Canada, (2)Centre de recherche de l'Institut universitaire en santé mentale de Montréal, Montréal, QC, Canada, (3)Psychiatry, University of Montreal, Montréal, QC, Canada, (4)Centre de recherche de l'Institut universitaire en santé mentale de Montréal, 7331, rue Hochelaga, QC, Canada, (5) University of Quebec in Montreal, Montreal, QC, Canada

30 122.030 Planning Skills in Autism Spectrum Disorder Across the Lifespan: A Meta-Analysis and Meta-Regression L. M. Olde Dubbelink[1,2] and H. M. Geurts[3], (1)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Dept. of Research, Development & Innovation, Dr. Leo Kannerhuis, Doorwerth, Netherlands, (3)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam; Dr. Leo Kannerhuis, Amsterdam, Netherlands

31 122.031 Predictors of Adult Outcomes in Cognitively Gifted Individuals with Autism Spectrum Disorder J. Kaboski[1], J. Gilger[2] and M. Cain[3], (1)University of Notre Dame, Notre Dame, IN, (2)School of Social Sciences, Humanities & Arts, University of California - Merced, Merced, CA, (3)Psychology, University of Notre Dame, South Bend, IN

32 122.032 Reduced Spatial Suppression in ASD Children O. Sysoeva[1], I. A. Galuta[1], E. Orekhova[2], M. Davletshina[1] and T. A. Stroganova[3], (1)Autism Research Laboratory, Moscow State University of Psychology and Education, Moscow, Russia, (2)University of Gothenburg, Moscow, Russian Federation, (3)MEG-center, Moscow State University of Psychology and Education, Moscow, Russia

33 122.033 Semantic and Visuospatial Analogical Reasoning in Autistic Children E. Danis[1], A. M. Nader[1], V. Courchesne[2] and I. Soulières[1], (1)University of Quebec in Montreal, Montreal, QC, Canada, (2)University of Montreal, Montréal, QC, Canada

34 122.034 Sensorimotor Adaptation Underpins Imitation Learning of Biological Motion Kinematics in Autism Spectrum Disorders N. C. Foster[1], S. J. Bennett[1], J. Causer[1], D. Elliott[1,2], M. Andrew[1] and S. J. Hayes[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

35 122.035 Severity Scores on the Autism Diagnostic Observation Schedule 2 Relate to Inhibitory Control in Children with Autism Spectrum Disorders J. M. Buirkle[1], G. Greco[2], T. Clarkson[3] and S. Faja[4], (1) Developmental Medicine, Boston Children's Hospital / Harvard Medical School, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3) Boston Children's Hospital: Harvard Med School, Boston, MA, (4)Boston Children's Hospital/Harvard Medical School, Boston, MA

36 122.036 Sex Differences in Implicit Learning Among Youth with Autism A. Clawson[1], A. Kresse[2], E. J. Libsack[2], E. E. Neuhaus[3], C. M. Hudac[4], R. Bernier[4], E. H. Aylward[2] and S. J. J. Webb[4], (1)Brigham Young University, Provo, UT, (2)Seattle Children's Research Institute, Seattle, WA, (3)Seattle Children's Hospital, Seattle, WA, (4)University of Washington, Seattle, WA

37 122.037 Social Attention in ASD: A Review and Meta-Analysis of Eye-Tracking Studies M. Chita-Tegmark, Boston University, Winchester, MA

38 122.038 Social Cues Modulate Learning of Cue-Reward Association in Typically Developing Children and Adults: A Gaze-Contingent Learning Paradigm A. Vernetti, T. J. Smith and A. Senju, Psychological Sciences, Birkbeck, University of London, London, United Kingdom

39 122.039 The Effect of Visual Perceptual Load on Auditory Detection Sensitivity in ASD J. E. Tillmann and J. Swettenham, University College London, London, United Kingdom

40 ▸122.040 The Effects on Inhibition of Cognitive Remediation Therapy in Patients with Autism Spectrum Disorder M. Hajri[1], Z. Abbes[1], H. Ben Yahia[1], T. Brahim[2], S. Halayem[1] and A. Bouden[1], (1)psychiatric hospital Razi, Tunis, Tunisia, (2)University of Monastir, Monastir, Tunisia

41 122.041 The 'Light from Above› Prior Is Intact in Children on the Autism Spectrum A. E. Croydon[1], T. Karaminis[1], L. E. Neil[1], D. C. Burr[2] and E. Pellicano[1], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)CNR Institute of Neuroscience, University of Florence, Pisa, Italy

42 122.042 Thinking Fast and Slow: Implications for the Autism Spectrum M. Brosnan[1], C. Ashwin[2] and M. Lewton[1], (1)University of Bath, Bath, United Kingdom, (2)University of Bath, Bath, United Kingdom of Great Britain and Northern Ireland

43 122.043 Training Attention in Students with ASD Using a Multiple Object Tracking Paradigm: A Pilot Study D. Tullo[1,2], J. Guy[3], J. Faubert[4] and A. Bertone[1,2], (1)Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism & Development, Montreal, QC, Canada, (3)McGill University, Montreal, QC, Canada, (4)Université de Montréal, Montréal, QC, Canada

44 ▸122.044 Verbal and Spatial Working Memories in Children with High-Functioning Autism Spectrum Disorder, and Their Relationships with Symptom Severity and Adaptive Function Y. A. Lin[1] and C. H. Chiang[2], (1) National Chengchi University, Taipei City, Taiwan, (2)National Chengchi University, Taipei, Taiwan (Province of China)

45 122.045 Working Memory and Emotional Processing Related to Autistic Behaviors S. Taylor[1], C. Dickter[2] and J. Burk[2], (1)College of William and Mary, Glen Allen, VA, (2)College of William & Mary, Williamsburg, VA

Poster Session

123 - Diagnostic, Behavioral and Intellectual Assessment I
5:30 PM - 7:00 PM - Hall A

46 123.046 A Machine Learning-Based Approach to Detecting Autism Spectrum Disorder from Unstructured and Semi-Structured Medical Records T. Smith[1], J. Yuan[2] and J. Luo[2], (1)601 Elmwood Ave, Box 671, University of Rochester Medical Center, Rochester, NY, (2)Computer Science, University of Rochester, Rochester, NY

47 123.047 ADOS Diagnostic Utility in Children with Low Mental Age L. E. Miller[1], C. Cordeaux[1] and D. A. Fein[2], (1)University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT

48 123.048 Adaptive Behavior Profiles in Girls with Autism: A Comparison to Previously Published Profiles in Boys C. A. Saulnier[1], K. Koenig[2], B. Naqvi[3], J. M. Moriuchi[4] and A. Klin[5], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Yale Child Study Center, New Haven, CT, (3)New York University, New York, NY, (4)Psychology, Emory University, Atlanta, GA, (5)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

49 123.049 An Examination of Cognitive and Adaptive Trends in Children with Autism Spectrum Disorder; A Comparison of Girls and Boys A. Platner[1], K. M. Stiles[2], N. Bhuiyan[1], C. Deguire[2,3], S. E. Gillespie[1] and S. Hoffenberg[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center and Children's Healthcare of Atlanta, Atlanta, GA, (3)Georgia School of Professional Psychology, Argosy University, Sandy Springs, GA

50 123.050 An Investigation of the 'Female Camouflage Effect› in Autism Using a New Computerized Test Showing Sex/Gender Differences during ADOS-2 A. Rynkiewicz[1,2], B. Schuller[3,4,5], E. Marchi[3], S. Piana[6], A. Camurri[6], A. Lassalle[7] and S. Baron-Cohen[7], (1)Department of Psychiatry, Medical University of Gdansk, Gdansk, Poland, (2)Centrum Diagnozy, Terapii i Edukacji SPECTRUM ASC-MED, Gdansk, Poland, (3)Machine Intelligence & Signal Processing Group, Technische Universität München, Munich, Germany, (4)Department of Computing, Imperial College London, London, United Kingdom, (5)Chair of Complex & Intelligent Systems, University of Passau, Passau, Germany, (6)Casa Paganini-InfoMus Research Centre DIBRIS, University of Genoa, Genoa, Italy, (7)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

51 123.051 Applicability of the Autism Spectrum Screening Questionnaire Parent Form to 5-Year-Old Children M. Adachi[1], N. Takayanagi[1], S. Yasuda[1], S. Yoshida[1], M. Kuribayashi[1], A. Osato[2], T. Masuda[3], M. Tanaka[3], M. Saito[2] and K. Nakamura[4], (1)Research Center for Child Mental Development, Hirosaki University, Hirosaki, Japan, (2) Graduate School of Medicine, Hirosaki University, Hirosaki, Japan, (3) Faculty of Education, Hirosaki University, Hirosaki, Japan, (4)Hirosaki University Graduate School of Medicine, Aomori, Japan

52 ▸123.052 Are African American Girls with ASD More or Less Impaired Than Boys? It May be All about IQ C. A. Saulnier[1], J. Berman[2], G. Kneeland[1], L. Pascarella[1] and B. Bostian[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Children's Healthcare of Atlanta, Atlanta, GA

53 123.053 Assessment Across Wide Age and Ability Ranges: Use of the Peabody Picture Vocabulary Test As a Proxy for Verbal IQ K. Krasileva and V. Hus Bal, Department of Psychiatry, University of California San Francisco, San Francisco, CA

54 123.054 Assessment of Intellectual Functioning at Age of Diagnosis: Testability and Comparison of Available Tests V. Courchesne[1], C. Jacques[2], D. Girard[3], M. Descamps[3], L. Mottron, M.D.[4] and I. Soulières[3], (1)University of Montreal, Montreal, QC, Canada, (2)Universite du Quebec en Outaouais, Gatineau, QC, Canada, (3)University of Quebec in Montreal, Montreal, QC, Canada, (4)Centre d'Excellence en Troubles Envahissants du Développement, Montréal, QC, Canada

55 123.055 Automated Quantification of Stereotypical Motor Movements Occurring in Autism Spectrum Disorder R. Kim[1], Y. Kang[2] and H. Kim[3], (1)Science, Horace Mann School, Bronx, NY, (2)Peddie School, Hightstown, NJ, (3)Trinity School, New York, NY

56 123.056 Before Our Eyes: "Frankness" of the ASD Behavioral Presentation As a Research Construct A. de Marchena[1] and J. Miller[2], (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

57 123.057 Can Primary Health Professionals› Input to Parent Reports Improve the Ability to Detect Children with ASD? K. Ebishima, A. Stickley and Y. Kamio, National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health, Tokyo 187-8553, Japan

58 123.058 Caregiver and Teacher Correspondence on Ratings of Problem Behaviors for Children with Autism Spectrum Disorder Receiving Community Mental Health Care N. Stadnick[1,2], D. Loreaux[1,3], C. Chlebowski[1,2,4] and L. Brookman-Frazee[1,2,4], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)Department of Psychiatry, Child and Adolescent Services Research Center, San Diego, CA, (4)Autism Discovery Institute at Rady Children's Hospital – San Diego, San Diego, CA

59 ▸123.059 Characteristic Features of Autism in the Nigerian Population T. A. Fagbayi[1], J. E. Okpuzor[2] and A. Lesi[3], (1)University of Lagos, Lagos, Nigeria, (2)University of Lagos, Nigeria, Nigeria, (3) Department of Pediatrics, College of Medicine, University of Lagos, Lagos, Nigeria

60 123.060 Clinical Implications of the ADI As a Measure of Development in Children with ASD N. Navot, S. J. J. Webb and R. Bernier, University of Washington, Seattle, WA

61 123.061 Clinician Confidence, Child Characteristics and Accuracy: Screening for Autism Spectrum Disorder in Toddlers D. Hedley[1], N. Brewer[2], R. E. Nevill[3], M. Uljarevic[4], E. Butter[5] and J. A. Mulick[6], (1)School of Psychology and Public Health, La Trobe University, Melbourne, Australia, (2)Flinders University, Adelaide, SA, Australia, (3) The Ohio State University, Columbus, OH, (4)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (5)Nationwide Children's Hospital, Westerville, OH, (6)Pediatrics, The Ohio State University, Columbus, OH

62 123.062 Combining ASD-Specific Screening Tools to Capture Red Flags in 12 Month Old High-Risk Siblings M. Lewis[1], N. R. Brane[1], B. Kotlar[1], E. J. Wang[2] and A. M. Wetherby[3], (1)Marcus Autism Center, Atlanta, GA, (2)Pediatrics, Emory University, Atlanta, GA, (3)Florida State University Autism Institute, Tallahassee, FL

63 123.063 Comparing Motor Abilities Using a Standardized Clinical Assessment (BOT-2) and Parent Report Questionnaires (MABC-2 and DCDQ) in Children with Autism Spectrum Disorder (ASD) E. Bakshipour[1], M. Kaur[2], S. Izadi-Najafabadi[2], S. Srinivasan[2] and A. N. Bhat[2], (1)Physical Therapy, University of Delaware, Newark, DE, (2)University of Delaware, Newark, DE

64 123.064 Correlations Between ADOS-2: Module 4 Comparison Severity Scores and Standardized Assessment Measures: A Preliminary Examination in Adults with Autism Spectrum Disorder M. J. Morrier[1], O. Ousley[2], M. J. Segall[3], E. Andari[4], J. F. Cubells[5] and L. J. Young[4], (1)1551 Shoup Court, Emory University, Atlanta, GA, (2)Psychiatry and Behavioral Sciences, Emory University School of Medicine, Decatur, GA, (3)Emory Autism Center, Atlanta, GA, (4)Emory University, Atlanta, GA, (5)Emory University School of Medicine, Atlanta, GA

66 ▸ 123.066 Early Detection of ASD: A Meta-Analytic Study on the M-CHAT and Other Tools Used for Universal Toddler Screening A. B. Sanchez-Garcia[1], M. Magan Maganto[1], P. Galindo[1], A. De Pablos De La Morena[1], D. L. Robins[2] and R. Canal-Bedia[1], (1)University of Salamanca, Salamanca, Spain, (2)Drexel University, Philadelphia, PA

67 123.067 Emotional and Behavioural Problems in Children with Neurodevelopmental Disorders: Using Cross-Disorder Phenotypes to Identify Informative Subgroups S. Georgiades[1], E. Duku[1], P. Szatmari[2], E. Anagnostou[3], P. D. Arnold[4], J. P. Lerch[5], R. Nicolson[6], S. W. Scherer[7], T. Bennett[1], A. Dupuis[8], A. Charach[9,10], J. Crosbie[8], J. A. Reitzel[11], G. Hall[1], N. Soreni[1], M. Woodbury-Smith[1], J. Beyene[1], C. Chrysler[1], M. Chalupka[1], A. D. Greco[1], C. Russell[1], I. O'Connor[1], L. Colli[1], S. Al Balkhi[1] and R. Schachar[9], (1)McMaster University, Hamilton, ON, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)University of Calgary, Calgary, AB, Canada, (5)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (6)University of Western Ontario, London, ON, Canada, (7) Centre for Applied Genomics (TCAG), Hospital for Sick Children, Toronto, ON, Canada, (8)The Hospital for Sick Children, Toronto, ON, Canada, (9)Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada, (10)Psychiatry, University of Toronto Faculty of Medicine, Toronto, ON, Canada, (11)McMaster Children's Hospital/McMaster University, Hamilton, ON, Canada

68 123.068 Factor Analysis of the Childhood Autism Rating Scale in Two-Year-Olds with ASD E. Moulton[1], M. Barton[2] and D. A. Fein[2], (1)University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT

69 123.069 Feasibility of Developing an Algorithm to Derive Ratings of Social Communication Functioning (ACSF:SC) from ADOS Data S. J. Gentles[1], B. M. Di Rezze[1,2], P. Rosenbaum[1], L. Zwaigenbaum[3], M. J. C. Hidecker[4], S. Georgiades[5] and E. Duku[5], (1)CanChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada, (2)School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, (3)University of Alberta, Edmonton, AB, Canada, (4)Communication Disorders, University of Wyoming, Laramie, WY, (5) McMaster University, Hamilton, ON, Canada

70 123.070 Gender Differences in the Age at Diagnosis of ASD A. M. Petrou[1], H. McConachie[2], D. Wilde[1], M. Johnson[2] and J. R. Parr[2], (1) Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (2)Institute of Health and Society, Newcastle University, Newcastle Upon Tyne, United Kingdom

71 123.071 How Do Test-Taking Behaviors Influence WISC-4 Scores? R. Tanabe[1] and S. Okada[2], (1)Graduate school of Eduction, Hokkaido university, Sapporo-Shi, Japan, (2)faculty of education, Hokkaido university, sapporo-shi, Japan

72 123.072 In the "Gray" Zone: Exploring the Diagnostic Course of Young Children with Unclear Presentation at Initial ASD Referral F. van der Fluit[1], M. Vu[1], S. W. Duvall[1] and L. Huang-Storms[2], (1)Oregon Health & Science University, Portland, OR, (2)Institute on Development and Disability, Oregon Health & Science University, Portland, OR

73 123.073 Informant Discrepancies in the Assessment of ASD Symptoms of High-Functioning Children with ASD Using the SRS-2 J. P. Donnelly[1], A. K. Jordan[2], M. L. Thomeer[1] and C. Lopata[1], (1)Institute for Autism Research, Canisius College, Buffalo, NY, (2)University at Buffalo, SUNY, Buffalo, NY

74 123.074 Intellectual Disability in Autism Spectrum Disorder: Investigation of Prevalence in an Italian Sample of Children and Adolescents V. Postorino[1,2], L. M. Fatta[2], V. Sanges[2], G. Giovagnoli[2,3], L. De Peppo[2,4], S. Vicari[5] and L. Mazzone[6], (1)Department of Pediatrics, Marcus Autism Center, Emory University, Atlanta, GA, (2)Department of Neuroscience, I.R.C.C.S. Children's Hospital Bambino Gesù, Rome, Italy, (3)Neuroscience Department, L.U.M.S.A., Libera Università Maria SS. Assunta, Rome, Italy, (4)Department of Neuroscience, L.U.M.S.A., Libera Università Maria SS. Assunta, Rome, Italy, (5)Children Hospital Bambino Gesù, Rome, Italy, (6)Department of Neuroscience, I.R.C.S.S. Children's Hospital Bambino Gesu', Rome, Italy

75 123.075 Longitudinal Stability and Change of Self-Reported Anxiety in Youth with ASD H. K. Schiltz[1], L. E. Swain-Lerro[2], M. C. Zajic[2], N. S. McIntyre[2], L. Springer[3] and P. C. Mundy[4], (1)Human Development, University of California at Davis, Davis, CA, (2)University of California at Davis MIND Institute, Davis, CA, (3)University of California at Davis, Davis, CA, (4)Education and Psychiatry, University of California at Davis, Sacramento, CA

76 123.076 Need a New DSM-5 ASD Assessment? Just AASC? C. L. Hebert, Spectrum Psychological Associates, Virginia Beach, VA

77 ▸ 123.077 Parental Developmental Concerns of at Risk Underserved Young Children Y. Janvier[1], J. Harris[2], C. N. Coffield[3], M. Jimenez[4] and M. Zuniga[2], (1)Children's Specialized Hospital, Toms River, NJ, (2)Children's Specialized Hospital, Fanwood, NJ, (3)The Boggs Center on Developmental Disabilities, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, (4)Children's Specialized Hospital, New Brunswick, NJ

78 ▸ 123.078 Predictive Factors in Special Education Eligibility for Children with ASD L. J. Dilly[1] and C. Hall[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA

79 123.079 Predictors of Parent-Teacher Agreement on Emotional and Behavioral Problems and Autism Symptoms in Youth with ASD and Their Typically Developing Siblings E. A. Stratis[1,2] and L. Lecavalier[1], (1)The Ohio State University, Columbus, OH, (2)The Kennedy Krieger Institute, Baltimore, MD

80 123.080 Principal Pathogenetic Components in Autism Spectum Disorder: A Validation Study C. Brogna[1], R. Sacco[2], S. Bruccheri[1], A. Costa[1], G. Barbieri[1], G. Ferrarelli[1] and A. M. M. Persico[3,4], (1)Child and Adolescent Neuropsychiatry Unit & Laboratory of Mol. Psychiatry and Neurogenetics, University Campus Bio-Medico, Rome, Italy., Rome, Italy, (2)Univ. Campus Bio-Medico, Rome, Italy, (3)Child and Adolescent Neuropsychiatry Unit, Lab of Molecular Psychiatry and Neurogenics, University Campus Bio-Medico, Rome, Italy, (4)Mafalda Luce Center for Pervasive Developmental Disorders, Milan, Italy

81 123.081 Qualitative Study on Functioning and Disability in ASD -the Development of WHO ICF Core Sets S. Mahdi[1], S. Bolte[2], A. Fallman[1] and J. Hattestrand[1], (1)Karolinska Institutet, Stockholm, Sweden, (2) Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden

82 ▸ 123.082 Screening for Autism Spectrum Disorders in Very Low Birth Weight Preterm Infants V. R. Lederman[1], A. L. Goulart[2] and J. S. Schwartzman[3], (1)Universidade Presbiteriana Mackenzie, Sao Paulo, Brazil, (2)Pediatrics, Universidade Federal de São Paulo/ Escola Paulista de Medicina, São Paulo, Brazil, (3)Universidade Presbiteriana Mackenzie, Sao paulo, Brazil

83 123.083 Sensory Processing Profile and Autistic Symptoms As Predictive Factors in Neurodevelopmental Disorder Diagnosis M. Glod[1], D. M. Riby[2], E. Honey[3] and J. Rodgers[4], (1)Newcastle University, Institute of Neuroscience, Newcastle Upon Tyne, England, United Kingdom, (2) Department of Psychology, Durham University, Durham, United Kingdom, (3)CNDS, Northumbria Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (4)Newcastle University, Newcastle Upon Tyne, United Kingdom

84 ▸ 123.084 Stability and Change for Toddlers with Autism Spectrum Disorder before Age 2: A 1.5-Year Follow-up C. C. Wu[1], Y. M. Hou[2] and C. H. Chiang[3], (1)Department of Psychology, Kaohsiung Medical University, Kaohsiung, Taiwan, (2)Chia-Yi Christian Hospital, Chiayi City ,Taiwan, Taiwan, (3)National Chengchi University, Taipei, Taiwan (Province of China)

85 123.085 Standardized ADOS-2 Toddler and Module 1 Severity Scores in a Clinical Sample D. Hedley[1], R. E. Nevill[2], M. Uljarevic[3], E. Butter[4] and J. A. Mulick[5], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)The Ohio State University, Columbus, OH, (3)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (4)Nationwide Children's Hospital, Westerville, OH, (5)Pediatrics, The Ohio State University, Columbus, OH

86 123.086 Teachers Are Important Too! Incremental Validity of BASC-2 TRS in Predicting DSM-5 Autism Spectrum Disorder Severity Ratings K. S. Ellison, M. B. Bundy, D. B. Wygant and J. S. Gore, Psychology, Eastern Kentucky University, Richmond, KY

87 123.087 Team Evaluation: A Streamlined Method for the Clinical Assessment of Autism Spectrum Disorder J. Gerdts[1], J. Mancini[2], T. Ward[3], S. Trinh[4], M. Thompson[5], C. Rhoads[5], K. Oshiro[5], J. Han[4] and R. Bernier[4], (1)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (2)Seattle Children's Autism Center, Seattle, WA, (3)Seattle Pacific University, Seattle, WA, (4)University of Washington, Seattle, WA, (5)University of Washington Autism Center, Seattle, WA

88 123.088 Temper Tantrums in Preschool Age Children with and without Autism Spectrum Disorder K. S. Davlantis[1], G. Dawson[1], L. Franz[1], M. Sabatos-DeVito[2], E. Paisley[1], J. Newman[1] and H. Egger[3], (1) Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (2)Duke University School of Medicine, Duke Center for Autism and Brain Development, Durham, NC, (3)Department of Psychiatry and Behavioral Sciences, Duke University School of Medicine, Durham, NC

89 ▸ 123.089 The Autism Mental Status Exam. Validation of a Spanish Version in Argentina S. H. Cukier[1], A. Rattazzi[2], V. M. Ensenat[3], M. C. Lopez[4], K. A. Gutson[5], J. I. Gomez de la Fuente[2], E. Zieba[6] and D. Grodberg[7], (1)PANAACEA, Buenos Aires, Capital Federal, Argentina, (2)PANAACEA, Buenos Aires, Argentina, (3)Pediatrics, British Hospital of Buenos Aires, Buenos Aires, Argentina, (4)Child and Adolescent Psychiatry, FLENI, Escobar, Argentina, (5)PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Buenos Aires, Argentina, (6)Hospital Pedro De Elizalde, Buenos Aires, Argentina, (7)Yale Child Study Center, New Haven, CT

90 123.090 The Development and Implementation of ASD Diagnostic Procedures in Nigeria L. Daley[1], B. Lawson[2] and B. B. Adewole[3], (1) Infiniteach, Chicago, IL, (2)Autism Assessment, Research & Treatment Services Center, Chicago, IL, (3)Behavior Management, The Learning Place Centre, Lagos, Nigeria

WITHDRAWN

91 ▸ 123.091 The Difference of WISC-IV Profile Between ASD and TD Children in China G. Li[1] and Y. Du[2], (1)1551 Shoup Court , Room 334, Emory Autism Center, Atlanta, GA, (2)Shanghai Mental Health Center, Shanghai Jiaotong University School of Medicine, Shanghai, China

92 123.092 The PlacentASD® Test at Birth Predicts Subsequent Behavioral Outcomes K. K. Quinlan[1], K. O. Olive[2], K. M. Milano[2] and H. J. Kliman[2], (1)Yale College, Yale University, New Haven, CT, (2)Dept. Ob/ Gyn, Yale University, New Haven, CT

93 123.093 The Potential of Eye-Tracking As an Outcome Measure for Autism Intervention Studies S. Fletcher-Watson[1] and S. Hampton[2], (1)University of Edinburgh, Edinburgh, Scotland, United Kingdom, (2) University of Edinburgh, Edinburgh, United Kingdom

94 123.094 The Relationship Between Joint Attention, Play and Imitation Skills, with Cognitive Outcomes in Preschoolers with Autism Spectrum Disorder H. C. Koh, G. Swee, J. Ong, W. Q. Teoh and S. B. Lim, Department of Child Development, KK Women's and Children's Hospital, Singapore, Singapore

95 123.095 The Validity of the Child Behavior Checklist in Identifying Anxiety Disorders in Children with ASD **A. Bennett**[1], M. C. Souders[2], L. R. Guy[3], K. Rump[4], J. Worley[5], H. E. Dingfelder[6], J. C. Bush[7], A. McVey[8], C. M. Kerns[9], J. Miller[10], J. Herrington[11] and M. Franklin[12], (1) Child Development, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Clinical Genetics Center, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (4)The Center for Autism Research, Philadelphia, PA, (5)CHOP, Blue Bell, PA, (6)University of Pennsylvania, Philadelphia, PA, (7)Indiana University, Bloomington, IN, (8)Marquette University, Milwaukee, WI, (9)A.J. Drexel Autism Institute, Philadelphia, PA, (10)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (11)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (12)Psychiatry, University of Pennsylvania, Philadelphia, PA

96 123.096 The Value of the AQ in Outpatient Mental Health Service M. L. Bezemer and **E. M. Blijd-Hoogewys**, Autism Team, INTER-PSY, Groningen, Netherlands

97 123.097 Timing of ASD Diagnosis: Demographic Factors of Influence **E. J. Libsack**[1], A. Kresse[1], E. E. Neuhaus[2], S. Trinh[3], R. Bernier[3] and S. J. J. Webb[3], (1)Seattle Children's Research Institute, Seattle, WA, (2)Seattle Children's Hospital, Seattle, WA, (3)University of Washington, Seattle, WA

98 123.098 Two Validation Studies of a Performance Validity Test for Autism Spectrum Disorder **L. M. Olde Dubbelink**[1,2], A. M. Scheeren[1], A. G. Lever[1] and H. M. Geurts[3], (1)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Dept. of Research, Development & Innovation, Dr. Leo Kannerhuis, Doorwerth, Netherlands, (3)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam; Dr. Leo Kannerhuis, Amsterdam, Netherlands

99 123.099 Validation of Eye Gaze Response to Dynamic Social Stimuli As Biomarker Related to Social Communication for Clinical Trials Involving Children with ASD **B. P. Rardin**[1], M. Murias[2], S. T. Major[1], M. Sabatos-DeVito[3], J. Newman[1], K. S. Davlantis[1] and G. Dawson[1], (1)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (2)Duke University, Durham, NC, (3) Duke University School of Medicine, Duke Center for Autism and Brain Development, Durham, NC

Poster Session
124 - Medical and Psychiatric Comorbidity
5:30 PM - 7:00 PM - Hall A

100 124.100 A Case Study of the Gut Microbiome in ASD: Correlation of Microbial Profiles with GI and Behavioral Symptoms **R. A. Luna**[1,2], A. Magee[1,2], J. K. Runge[1,2], A. Venkatachalam[1,2], M. Rubio-Gonzales[1,2] and J. Versalovic[1,2], (1)Texas Children's Microbiome Center, Texas Children's Hospital, Houston, TX, (2)Department of Pathology & Immunology, Baylor College of Medicine, Houston, TX

101 124.101 A Profile on Healthcare Utilization during the First Year of Life in Children with Autism Spectrum Disorder **G. Liu**[1], L. Kong[1], D. Leslie[1] and M. Murray[2], (1)Public Health Sciences, Penn State College of Medicine, Hershey, PA, (2)Psychiatry, Penn State Hershey, Hershey, PA

102 124.102 ADHD Diagnosis and Treatment Among ADHD Children with and without ASD **B. Zablotsky**, M. D. Bramlett and S. J. Blumberg, National Center for Health Statistics, Hyattsville, MD

103 124.103 Adaptive Behavior Impairments Vary with Depression Status in Adolescents and Young Adults with ASD **R. N. Crist**[1] and K. Gotham[2], (1)Psychiatry, Vanderbilt University School of Medicine, Nashville, TN, (2)Vanderbilt University, Nashville, TN

104 124.104 Addressing Intolerance of Uncertainty in Anxious Young People with Autism Spectrum Disorder **J. Rodgers**[1], E. Honey[2], M. H. Freeston[3] and A. Hodgson[4], (1)Newcastle University, Newcastle University, Newcastle, United Kingdom, (2)CNDS, Northumbria Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (3)Psychology, Newcastle University, Newcastle, United Kingdom, (4) Newcastle University, Newcastle, United Kingdom

105 124.105 An Investigation of Eye Color and Autism: The Distribution of Iris Coloration Among Children with ASD in the United States **K. Callahan**, University of North Texas Kristin Farmer Autism Center, Denton, TX

106 124.106 Anorexia Nervosa and Autism Spectrum Disorder: Is There an Association? **V. Postorino**[1], L. Scahill[2], V. Zanna[3], M. Castiglioni[3], L. De Peppo[4], L. M. Fatta[3], S. Vicari[5] and L. Mazzone[6], (1) Marcus Autism Center, Emory University, Atlanta, GA, (2)Pediatrics, Marcus Autism Center, Atlanta 30329, GA, (3)Department of Neuroscience, I.R.C.C.S. Children's Hospital Bambino Gesù, Rome, Italy, (4)Department of Neuroscience, L.U.M.S.A., Libera Università Maria SS. Assunta, Rome, Italy, (5)Children Hospital Bambino Gesù, Rome, Italy, (6)Department of Neuroscience, I.R.C.S.S. Children's Hospital Bambino Gesu', Rome, Italy

107 124.107 Anxiety and Satisfaction with Life in Young Adults with Autism Spectrum Disorder **I. C. Smith**[1], R. Elias[2] and S. W. White[1], (1) Virginia Polytechnic Institute and State University, Blacksburg, VA, (2) Virginia Tech, Blacksburg, VA

108 124.108 Anxiety in Autism and Autism in Anxiety: Symptom Overlap on the SRS-2 Adult Self-Report **A. Ward**[1], C. Nielson[1], K. G. Stephenson[1], M. Maisel[1], T. P. Gabrielsen[1], M. H. Freeston[2], J. Rodgers[3], M. South[1] and S. B. Gaigg[4], (1)Brigham Young University, Provo, UT, (2)Psychology, Newcastle University, Newcastle, United Kingdom, (3) Newcastle University, Newcastle Upon Tyne, United Kingdom, (4)City University London, London, United Kingdom of Great Britain and Northern Ireland

109 ▸124.109 Assessing Anxiety Symptomatology in Children with ASD Using Existing Measures: Is the Spence Children›s Anxiety Scale- Parent Version a Useful Tool? I. Magiati[1], J. W. Lerh[2], M. J. Hollocks[3], M. Uljarevic[4], J. Rodgers[5], H. McConachie[6], A. Ozsivadjian[7], M. South[8,9], A. V. Van Hecke[10], A. Y. Hardan[11], R. A. Libove[11], S. R. Leekam[12] and E. Simonoff[13], (1)Department of Psychology, National University of Singapore, Singapore, Singapore, (2)Psychology, NATIONAL UNIVERSITY OF SINGAPORE, Singapore, Singapore, (3)King's College London, London, England, United Kingdom of Great Britain and Northern Ireland, (4)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (5)Newcastle University, Newcastle Upon Tyne, United Kingdom, (6)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (7)Guy's Hospital, London, United Kingdom, (8)Brigham Young University, Provo, UT, (9)Psychology and Neuroscience, Brigham Young University, Provo, UT, (10)Marquette University, Milwaukee, WI, (11)Stanford University, Stanford, CA, (12) School of Psychology, Cardiff University, Cardiff, United Kingdom, (13) Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

110 ▸124.110 Association Between Autistic Traits and Suicidality in a Sample of University Students S. Yilmaz[1], S. Herguner[2] and S. Kılınç[1], (1)Meram Faculty of Medicine, KONYA, Turkey, (2)Meram Faculty of Medicine, NE University, Konya, Turkey

111 124.111 Associations Between Cytokines, Endocrine Stress Response, and Gastrointestinal Symptoms in Autism Spectrum Disorder B. J. Ferguson[1], S. Marler[2], L. L. Altstein[3], E. B. Lee[2], M. O. Mazurek[4], A. McLaughlin[5], K. Hartnett[6], E. A. Macklin[7], E. McDonnell[3], D. J. Davis[6], A. Belenchia[6], C. H. Gillespie[6], C. A. Peterson[8], M. L. Bauman[9], K. G. Margolis[10], J. Veenstra-Vander Weele[11] and D. Q. Beversdorf[12], (1) Radiology, University of Missouri, Columbia, MO, (2)Vanderbilt University, Nashville, TN, (3)Massachusetts General Hospital Biostatistics Center, Boston, MA, (4)University of Missouri - Columbia, Columbia, MO, (5) Pediatrics, St. Louis University, St. Louis, MO, (6)University of Missouri, Columbia, MO, (7)Biostatistics Center, Massachusetts General Hospital, Boston, MA, (8)Nutrition & Exercise Physiology, University of Missouri, Columbia, MO, (9)Boston University School of Medicine, Boston, MA, (10)Columbia University, New York, NY, (11)New York State Psychiatric Institute / Columbia University, New York, NY, (12)University of Missouri, Columbia, Columbia, MO

112 124.112 Associations Between Sleep and Behavioral Problems in Children with ASD M. O. Mazurek[1] and K. Sohl[2], (1)University of Missouri - Columbia, Columbia, MO, (2)University of Missouri - Thompson Center, Columbia, MO

113 124.113 Attention-Deficit/Hyperactivity Disorder Is Common in Autism Spectrum Disorder and Negatively Affects the Clinical Presentation D. A. Zachor[1] and E. Ben Itzchak[2], (1)Tel Aviv University / Assaf Harofeh Medical Center, Zerifin, Israel, (2)Ariel University, Givat Shmuel, Israel

114 ▸124.114 Autistic Traits in Women with Primary Dysmenorrhea H. Toy[1], A. Hergüner[2], S. Simsek[1] and S. Herguner[1], (1)Meram Faculty of Medicine, NE University, Konya, Turkey, (2)Konya Research and Training Hospital, Konya, Turkey

115 124.115 Biophysiology and Standardized Measures of Anxiety in Adolescents with ASD R. B. Grossman, J. Mertens, E. Zane and K. Neumeyer, Emerson College, Boston, MA

116 124.116 Bone Accrual in Boys with Autism Spectrum Disorder A. Neumeyer[1], N. Cano Sokoloff[2], E. McDonnell[3], E. A. Macklin[4], C. McDougle[2] and M. Misra[5], (1)Lurie Center for Autism Massachusetts General Hospital, Lexington, MA, (2)Pediatrics, Massachusetts General Hospital, Lexington, MA, (3)Massachusetts General Hospital Biostatistics Center, Boston, MA, (4)Biostatistics Center, Massachusetts General Hospital, Boston, MA, (5)Pediatric Endocrinology, Massachusetts General Hospital/ Harvard Medical School/ Harvard Medical School, Boston, MA

117 124.117 Cardiac Autonomic Measures during Baseline Resting Conditions in Autism Spectrum Disorders: Two Meta-Analyses L. Verhoeven[1], H. M. Geurts[2,3] and I. Smeekens[1,4,5], (1)Dr. Leo Kannerhuis, Doorwerth, Netherlands, (2)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam; Dr. Leo Kannerhuis, Amsterdam, Netherlands, (3)Dept. of Research, Development & Innovation, Dr. Leo Kannerhuis, Doorwerth, Netherlands, (4)Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Centre, Nijmegen, Netherlands, (5)Karakter, Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands

118 124.118 Clinical Correlates for Seizure Disorder, Asthma, and Allergies in Youth with ASD Versus Psychiatric Referrals K. D. Gadow and R. J. Weber, Stony Brook University, Stony Brook, NY

119 124.119 Parent-Reported Developmental Regression in Autism Spectrum Disorder: Epilepsy, Intellectual Disability, Schizophrenia Symptoms, and Special Education R. J. Weber, E. Kang, T. Rosen, G. Perlman and K. D. Gadow, Stony Brook University, Stony Brook, NY

120 124.120 Continuity, Change and Predictors of Anxiety Symptoms in a Community Sample of Children and Youth with ASD: A Prospective Follow-up Study E. J. Teh, G. Tan and I. Magiati, Department of Psychology, National University of Singapore, Singapore, Singapore

121 124.121 Decreased Immune Regulation in Children with ASD Who Experience GI Symptoms D. Rose[1], M. Careaga[2], H. Yang[3], H. Hughes[3], J. Van de Water[4], A. Fasano[5] and P. Ashwood[6], (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)UC Davis/MIND Institute, Sacramento, CA, (3)UCD MIND Institute, Sacramento, CA, (4)University of California at Davis MIND Institute, Davis, CA, (5)Pediatrics, MassGeneral Hospital for Children, Charlestown, MA, (6)UC Davis, Sacramento, CA

122 124.122 Descriptive Study of Individuals with Pitt-Hopkins Syndrome (PTHS) K. C. Guest[1], S. E. O'Kelley[1], E. Rahn[2], K. D. Krubinski[1], B. A. Modi[1], A. Kennedy[2] and D. Sweatt[2], (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Neurobiology, University of Alabama at Birmingham, Birmingham, AL

123 ▸124.123 Determinants of the SLEEP and Eating Problems in NEWLY-Diagnosed Preschool Children with Autism Spectrum Disorder A. Bilgic and S. Herguner, NE University, Konya, Turkey

124 124.124 Development of the Anxiety Scale for Children – ASD (ASC-ASD) J. Rodgers[1], S. Wigham[2], H. McConachie[3], M. H. Freeston[4], E. Honey[5] and J. R. Parr[6], (1)Newcastle University, Newcastle Upon Tyne, United Kingdom, (2)Newcastle University, Newcastle upon Tyne, NE1 4LP, United Kingdom of Great Britain and Northern Ireland, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Psychology, Newcastle University, Newcastle, United Kingdom, (5)CNDS, Northumbria Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (6)Institute of Health and Society, Newcastle University, Newcastle Upon Tyne, United Kingdom

125 124.125 Does the Collaborative and Proactive Solutions Model Explain Aggressive Behavior in Children with Autism Spectrum Disorder without Intellectual Disability? P. Cleary[1], B. B. Maddox[2], E. S. Kuschner[1], L. R. Guy[3], R. T. Schultz[4], J. Miller[2] and B. E. Yerys[5], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (4) The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research, Philadelphia, PA

126 124.126 Early Life Influences and Child Weight Outcomes in the Study to Explore Early Development (SEED) T. V. Kral[1], J. L. Chittams[2], C. B. Bradley[3], J. L. Daniels[4], C. G. DiGuiseppi[5], S. L. Johnson[6], J. Pandey[7], J. A. Pinto-Martin[8], N. Rahai[9], A. Ramirez[10], L. A. Schieve[11], A. M. Thompson[12], W. Thompson[11], G. C. Windham[13], W. E. York[14], L. Young[15] and S. E. Levy[7], (1)University of Pennsylvania School of Nursing, Philadelphia, PA, (2)Biostatistics Consulting Unit, University of Pennsylvania School of Nursing, Philadelphia, PA, (3) Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)University of North Carolina, Chapel Hill, NC, (5)Epidemiology, University of Colorado - Denver, Aurora, CO, (6)University of Colorado Denver, Aurora, CO, (7)Children's Hospital of Philadelphia, Philadelphia, PA, (8)Biobehavioral Health Sciences, University of Pennsylvania School of Nursing, Philadelphia, PA, (9)Center for Public Health Initiatives, University of Pennsylvania, Philadelphia, PA, (10)Study to Explore Early Development, University of Pennsylvania School of Nursing, Philadelphia, PA, (11)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (12)Office of Nursing Research, University of Pennsylvania School of Nursing, Philadelphia, PA, (13)California Department of Public Health, Richmond, CA, (14)Nursing Research, University of Pennsylvania School of Nursing, Philadelphia, PA, (15)School of Nursing, PA-SEED, CADDRE, Philadelphia, PA

127 ▸ 124.127 Effect of Comorbid ADHD on IQ and Adaptive Behavior in Children with ASD: Implications for Outcomes and Treatment C. Montiel-Nava[1,2], Z. Gonzalez[1], J. A. Chacin[3] and L. Palacios-Cruz[4], (1)Psychology, La Universidad del Zulia, Maracaibo, Venezuela, (2) Center for Graduate Studies, Universidad Latina, Panama, Panama, (3) La Universidad del Zulia, Maracaibo, Venezuela, (4)National Institute of Psychiatry, Mexico DF, Mexico

128 124.128 Examining the Factor Structure of the Spence Children›s Anxiety Scale – Parent Version in Children with Autism Spectrum Disorder K. Jitlina[1], B. Zumbo[1], P. Mirenda[1], P. Szatmari[2], S. E. Bryson[3], E. Fombonne[4], I. M. Smith[5], T. Vaillancourt[6], J. Volden[7], L. Zwaigenbaum[8], S. Georgiades[9], E. Duku[9], M. Elsabbagh[10], T. Bennett[9] and A. Thompson[9], (1)University of British Columbia, Vancouver, BC, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada, (3) Dalhousie University, Halifax, NS, Canada, (4)Oregon Health & Science University, Portland, OR, (5)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (6)University of Ottawa, Ottawa, ON, Canada, (7) University of Alberta, University of Alberta, AB, Canada, (8)University of Alberta, Edmonton, AB, Canada, (9)McMaster University, Hamilton, ON, Canada, (10)McGill University, Montreal, PQ, Canada

129 124.129 Exploring Anxiety and Executive Function Among School-Aged Children with ASD G. Greco[1] and S. Faja[2], (1)Boston Children's Hospital, Harvard Medical School, Boston, MA, (2)Boston Children's Hospital/Harvard Medical School, Boston, MA

130 124.130 Exploring Relationships Between Negative Cognitions and Anxiety Symptoms in Youth with Autism Spectrum Disorder A. Keefer[1,2], N. L. Kreiser[1,2], V. Singh[1], A. Blakeley-Smith[3], A. Duncan[4], S. Hepburn[5], C. Johnson[6], L. G. Klinger[7], A. T. Meyer[8], J. Reaven[9] and R. A. Vasa[1,2], (1)Kennedy Krieger Institute, Baltimore, MD, (2)School of Medicine, Johns Hopkins University, Baltimore, MD, (3)Univ. of Colo. Denver-JFK Partners, Aurora, CO, (4)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (5)University of Colorado / JFK Partners, Aurora, CO, (6)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (7)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (8)University of North Carolina, Carrboro, NC, (9)Univ. of Colorado Denver-JFK Partners, Aurora, CO

131 124.131 Extreme/ 'Pathological› Demand Avoidance: An Examination of the Behavioural Features Using a Semi-Structured Interview E. O'Nions[1], E. Quinlan[2], A. San José Cáceres[2], E. Viding[3] and F. Happé[4], (1)Division of Psychology and Language Sciences, University College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)University College London, London, United Kingdom, (4) Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

132 124.132 Facing Puberty: Menses in Females with Autism Spectrum Disorder W. T. Eriksen[1], M. C. Souders[2], R. Frasso[3] and J. A. Pinto-Martin[4], (1)University of Pennsylvania School of Nursing, West Chester, PA, (2)Clinical Genetics Center, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Center for Public Health Initiatives, University of Pennsylvania, Philadelphia, PA, (4)Biobehavioral Health Sciences, University of Pennsylvania School of Nursing, Philadelphia, PA

133 124.133 Gender Differences in Medical and Behavioral Co-Morbidities in Children Ages 6-17 Years with ASD I. Zamora[1], A. Shui[2] and L. Yin[3], (1)USC/CHLA, Los Angeles, CA, (2)Massachusetts General Hospital, Boston, MA, (3)Pediatrics, Children's Hospital Los Angeles/Keck School of Medicine of USC, los angeles, CA

134 124.134 Genomic and Electrophysiologic Factors Contributes to Clinical Endophenotypes in Autism and Epilepsy Populations G. Barnes, University of Louisville School of Medicine, Louisville, KY

135 124.135 Ideas Improving Diagnosis of Anxiety in Autism Spectrum Disorders C. Sudrijan, James's St, Trinity College Dublin, Dublin, Ireland

136 124.136 Identifying Task Specific Subgroups in Autism Spectrum Disorder (ASD) S. Sarabadani[1,2], A. Kushki[1] and A. A. Samadani[1,2], (1) Bloorview Research Institute, Toronto, ON, Canada, (2)Biomedical Engineering (IBBME), University of Toronto, Toronto, ON, Canada

137 124.137 Improving Certainty about Uncertainty in ASD? Confirmatory Factor Analysis of the Intolerance of Uncertainty Scale (12) in ASD Adults C. J. Kipp[1], E. Anderberg[1], D. N. Top[2], K. G. Stephenson[1], M. Maisel[1], J. Rodgers[3], M. H. Freeston[4], M. South[1,5] and S. B. Gaigg[6], (1) Brigham Young University, Provo, UT, (2)1190 North 900 East, Brigham Young University, Provo, UT, (3)Newcastle University, Newcastle Upon Tyne, United Kingdom, (4)Psychology, Newcastle University, Newcastle, United Kingdom, (5)Psychology and Neuroscience, Brigham Young University, Provo, UT, (6)City University London, London, United Kingdom of Great Britain and Northern Ireland

138 124.138 Incidence and Effects of Feeding Problems in Children with Symptoms of Autism Spectrum Disorder A. B. Barber[1], M. M. Gosa[2] and E. Henderson[2], (1)University of Alabama, Tuscaloosa, AL, (2) Communicative Disorders, University of Alabama, Tuscaloosa, AL

139 124.139 Individual Differences in HPA Axis Activity in Youth with Autism Spectrum Disorder: Relations to Stress, Anxiety, Social Responsiveness and Adaptive Skills Z. Pan[1], R. Gabriels[2], B. Dechant[3] and D. A. Granger[4], (1)Pediatrics, University of Colorado Denver school of medicine, Aurora, CO, (2)Children's Hospital Colorado, Aurora, CO, (3)University of Colorado - Denver, Aurora, CO, (4)Institute for Interdisciplinary Salivary Bioscience Research, Arizona State University, (3) Johns Hopkins University School of Nursing, Bloomberg School of Public Health, and School of Medicine, Phoenix, AZ

140 124.140 Internalizing Psychopathology: Relations to Executive Functions in Young Children with Autism Spectrum Disorder J. Berg[1,2], B. Wilson[1] and J. Kim[1], (1)Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Psychiatry, UCLA Semel Institute, Los Angeles, CA

141 124.141 Longitudinal Predictors of Co-Occurring Anxiety in Children at Increased Familial Risk for ASD B. Milosavljevic[1], E. Shephard[2], T. Gliga[3], G. Pasco[4], E. J. Jones[5], F. Happé[6], M. H. Johnson[7], T. Charman[1] and T. B. Team[8], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)King's College London, London, England, United Kingdom, (3)Birkbeck College, London, United Kingdom of Great Britain and Northern Ireland, (4)Institute of Psychiatry, London, United Kingdom of Great Britain and Northern Ireland, (5)CBCD, Birkbeck College, University of London, London, United Kingdom, (6)Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (7)Birkbeck, University of London, London, United Kingdom of Great Britain and Northern Ireland, (8)Birkbeck, University of London, London, United Kingdom

142 124.142 Neuropsychological Characteristics of Individuals with Mixed High Functioning ASD and ADHD C. Colombi[1] and M. Ghaziuddin[2], (1)Psychiatry, University of Michigan, Ann Arbor, MI, (2)Psychiatry, University of Michigahn, Ann Arbor, MI

143 124.143 Overlapping Symptoms of Bipolar Disorder in Children and Adolescents with Autism Spectrum Disorder G. Singh[1], E. Anabalagan[2], K. Sohl[3], C. P. Gregory[1] and R. M. Brown[4], (1)University of missouri-columbia, columbia, MO, (2)UC Davis, San fransico, CA, (3) University of Missouri - Thompson Center, Columbia, MO, (4)University of missouri-columbia, Columbia, MO

144 124.144 Parent, Teacher and Self-Report of Behavioral and Adaptive Functioning in Youth with ADHD and ASD K. E. Wagner and K. M. Antshel, Psychology, Syracuse University, Syracuse, NY

145 124.145 Comparison of Two Screening Instruments for Additional Psychopathology in Children with Autism Spectrum Disorder S. Chandler[1], G. Baird[2], F. Salazar[3] and E. Simonoff[4], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom, (3)Department of Child Psychiatry, South London and Maudlsey NHS Foundation Trust, London, United Kingdom, (4)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

146 124.146 Personality Profiles in Intellectually Able Adults with ASD K. B. Harrison[1], M. Reddy[2], A. Engstrom[1] and K. A. Loveland[3], (1) Psychiatry & Behavioral Sciences, University of Texas Health Science Center Houston, Houston, TX, (2)Psychiatry and Behavioral Sciences, University of Texas Health Science Center Houston, Houston, TX, (3) University of Texas Medical School, Houston, TX

147 124.147 Physical Growth Pattern from Birth to Age 6 of Children with Autism Spectrum Disorder Compared to Typically Developing Children J. Zhang[1], M. D. Fallin[1,2,3], H. E. Volk[1,3], D. M. Caruso[4], A. Riley[1], R. Landa[2,5], R. Angomas[6], C. Pearson[6], M. Silverstein[6] and X. Wang[2,7], (1) Johns Hopkins Bloomberg School of Public Health (JHBSPH), Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD, (3)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (4)Center on the Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD, (5) The Kennedy Krieger Institute, Baltimore, MD, (6)The Boston University Medical Center, Boston, MA, (7)Center on Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD

148 124.148 Predicting the Presence of Challenging Behaviours at 16 Years Old Using a Population Based Sample of Individuals with Autism Spectrum Disorder (ASD) R. Kent[1], V. Carter Leno[2], T. Charman[3], S. Chandler[4], C. Jones[5], F. Happé[6], G. Baird[7], A. Pickles[2] and E. Simonoff[3], (1)Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (2)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (3)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)School of Psychology, Cardiff University, Cardiff, United Kingdom, (6)Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (7)Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom

149 124.149 Predictors of Poor Sleep Quality in Youth and Young Adults on the Autism Spectrum A. L. Richdale[1,2], K. V. Miller[3,4] and M. Uljarevic[1,2], (1)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)Psychology and Public Health, La Trobe University, Bundoora, Australia, (4)Cooperative Research Centre for Living with Autism, Brisbane, Australia

150 124.150 Preliminary Findings from a Clinical Multi-Center Study on Individuals with Autism Spectrum Disorders, Intellectual Disability and Psychiatric Disorders S. B. Helverschou[1], E. Myrbakk[2] and T. L. Bakken[3], (1)Oslo University Hospital, Oslo, Norway, (2)Psychiatric Resource Team, Nordland Hospital, Bodø, Norway, (3)Psychiatric Department for intellectual disability / Autism, Oslo University Hospital, Oslo, Norway

151 124.151 Prevalence and Predictors of ADHD in Adolescent Males with FXS and ASD S. L. O'Connor[1], S. McGrath[2], J. Ezell[2], C. Smith[2], L. Abbeduto[3] and J. Roberts[1], (1)Psychology, University of South Carolina, Columbia, SC, (2)University of South Carolina, Columbia, SC, (3)MIND Institute, UC Davis, Sacramento, CA

152 124.152 Relationship Between Subtypes of Restricted and Repetitive Behaviors in Sleep Disturbance in Autism Spectrum Disorder R. J. Hundley[1], A. Shui[2] and B. A. Malow[3], (1)11101 Doctors' Office Tower, Vanderbilt University Medical Center, Nashville, TN, (2)Massachusetts General Hospital, Boston, MA, (3)Vanderbilt University, Nashville, TN

153 124.153 Relationship of Weight Outcomes and Severity of Autism Spectrum Disorder (ASD) in the Study to Explore Early Development (SEED) S. E. Levy[1], T. V. Kral[2], J. L. Chittams[3], C. B. Bradley[4], K. N. Burbage[5], E. V. Jones[6], J. Pandey[7], A. T. Pomykacz[8], N. Rahai[9], A. Ramirez[10], A. M. Reynolds[11], E. Rubenstein[12], L. A. Schieve[13], S. K. Shapira[13], A. M. Thompson[14], W. Thompson[13], W. E. York[15], L. Young[16] and J. A. Pinto-Martin[2], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Biobehavioral Health Sciences, University of Pennsylvania School of Nursing, Philadelphia, PA, (3) Biostatistics Consulting Unit, University of Pennsylvania School of Nursing, Philadelphia, PA, (4)Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Center for Autism and Developmental Disabilities Research and Epidemiology (CADDRE)/ Biobehavioral Sciences (BHS), University of Pennsylvania School of Nursing, Philadelphia, PA, (6)PA CADDRE, University of Pennsylvania School of Nursing, Philadelphia, PA, (7)Children's Hospital of Philadelphia, Philadelphia, PA, (8)Center for Autism Research, Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (9)Center for Public Health Initiatives, University of Pennsylvania, Philadelphia, PA, (10)Study to Explore Early Development, University of Pennsylvania School of Nursing, Philadelphia, PA, (11)University of Colorado - Denver, Aurora, CO, (12)Department of Epidemiology, University of North Carolina, Chapel Hill, NC, (13) National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (14)Office of Nursing Research, University of Pennsylvania School of Nursing, Philadelphia, PA, (15)Nursing Research, University of Pennsylvania School of Nursing, Philadelphia, PA, (16)School of Nursing, PA-SEED, CADDRE, Philadelphia, PA

154 124.154 Reliability and Validity of the Autism Spectrum Addendum to the Anxiety Disorders Interview Schedule (ADIS/ASA) C. M. Kerns[1], P. Renno[2], E. Crawford[3], R. Mercado[3], B. Garvin[4], J. Danial[5], P. C. Kendall[6], J. J. Wood[2] and E. Storch[7], (1)A.J. Drexel Autism Institute, Philadelphia, PA, (2)University of California Los Angeles, Los Angeles, CA, (3)Temple University, Philadelphia, PA, (4)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (5)UCLA, Woodland Hills, CA, (6) Psychology, Temple University, Philadelphia, PA, (7)University of South Florida, St. Petersburg, FL

155 124.155 Resting Autonomic Activity in Children with Autism Spectrum Disorders and Matched Controls with and without Comorbid Anxiety V. Parma[1,2,3], N. Cellini[4], L. R. Guy[5], A. McVey[6], K. Rump[7], J. Worley[8], J. C. Bush[9], J. Miller[10] and J. Herrington[11], (1)SISSA, Trieste, Italy, (2)CHOP, Center for Autism Research, Philadelphia, PA, (3)Clinical Neuroscience, Karolinska Institutet, stockholm, Sweden, (4)Department of General Psychology, University of Padova, Padova, Italy, (5)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (6)Marquette University, Milwaukee, WI, (7)The Center for Autism Research, Philadelphia, PA, (8)CHOP, Blue Bell, PA, (9)Indiana University, Bloomington, IN, (10)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (11)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

156 124.156 Risk and Protective Factors of Depression in Children with ASD Tendency in Japan N. Takayanagi[1], M. Adachi[1], S. Yasuda[1], S. Yoshida[1], M. Kuribayashi[1] and K. Nakamura[2], (1)Research Center for Child Mental Development, Hirosaki University, Hirosaki, Japan, (2)Hirosaki University Graduate School of Medicine, Aomori, Japan

157 124.157 Silver Linings: Optimism and Positivity As Buffers of Stress and Lower Well-Being in Mothers of Adolescents with ASD and Co-Morbid Disorders J. Blacher[1] and B. L. Baker[2], (1)University of California - Riverside, Riverside, CA, (2)UCLA, Los Angeles, CA

158 124.158 Suicidality in Adolescents and Adults with and without an Autism Spectrum Condition L. Van Dongen[1] and S. A. Cassidy[2], (1) Maastricht University, Maastricht, Netherlands, (2)Coventry University, Coventry, England, United Kingdom

159 124.159 The Longitudinal Course of Mood and Psychosocial Functioning in Youth with Comorbid Bipolar and Autism Spectrum Disorders X. Borue[1], C. A. Mazefsky[2], T. Goldstein[1], B. Rooks[3], M. K. Gill[1], M. Strober[4], M. B. Keller[5], D. Axelson[6], S. Yen[5], R. S. Diler[1], D. A. Axelson[1], B. Goldstein[1] and B. Birmaher[1], (1)Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine, Pittsburgh, PA, (2)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (3)University of Pittsburgh, Pittsburgh, PA, (4)David Geffen School of Medicine, University of California, Los Angeles, CA, (5) Butler Hospital, Brown University School of Medicine, Providence, RI, (6)Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

160 124.160 The Presence of Gastrointestinal Symptoms in Parents of Individuals with Autism Spectrum Disorder J. Barstein[1], A. Bedell[2], N. Dunbar[1], L. Keefer[2] and M. Losh[1], (1)Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, (2)Division of Gastroenterology and Hepatology, Northwestern University Feinberg School of Medicine, Chicago, IL

161 124.161 The Relation Between Autism Symptom Severity and Family History of Psychiatric and Neurodevelopmental Disorders D. Morriss[1,2], H. Tokajian[3], A. H. Gerber[2], E. M. Morrow[2,4], T. F. Anders[2] and S. J. Sheinkopf[2,3], (1)Alpert Medical School of Brown University, Providence, RI, (2)Rhode Island Consortium for Autism Research and Treatment (RI-CART), Bradley Hospital, East Providence, RI, (3)Brown Center for the Study of Children at Risk, Women & Infants Hospital, Providence, RI, (4)Department of Molecular Biology, Cell Biology and Biochemistry and Institute for Brain Science, Brown University, Providence, RI

162 124.162 The Relationship Between Food Selectivity, Gastrointestinal Dysfunction and Biomarkers in Autism Spectrum Disorder R. Enten[1], E. Gal[2] and Y. Latzer[3], (1)Occupational Therapy, University of Haifa, Haifa, Israel, (2)University of Haifa, Timrat, Israel, (3)Public health, University of Haifa, Haifa, Israel

164 124.164 The Relationship of Anxiety and Reciprocal Social Impairment in Autism: A Comparison Study of the Scared and SRS W. D. Lohr[1], T. Wiemken[2], R. Kelley[2], K. Daniels[3], P. G. Williams[1], G. M. Kuravackel[1] and L. L. Sears[1], (1)Pediatrics, University of Louisville School of Medicine, Louisville, KY, (2)Medicine, University of Louisville School of Medicine, Louisville, KY, (3)Psychology, Spalding University, Louisville, KY

165 124.165 Threat Interpretation and Anxiety in Autistic Children and Their Mothers L. E. Neil, A. E. Croydon and E. Pellicano, Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

166 124.166 Verbal Ability and Worry in Children with Autism Spectrum Disorder P. Renno[1], J. J. Wood[1], J. Danial[2], S. E. Whitham[3], S. Klebanoff[4] and K. Zielinski[5], (1)University of California Los Angeles, Los Angeles, CA, (2)UCLA, Woodland Hills, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)Education, UCLA, Los Angeles, CA, (5) University of California Los Angeles, Hermosa Beach, CA

167 124.167 Who Are We Missing: Why Would a Community-Derived Sample of Children with ASD Have Higher CBCL Symptoms Than Clinic-Based Samples? A. C. Armour[1], J. F. Strang[2], K. M. Dudley[3], L. Mohamed[4], R. E. Shafran[5], C. Rothwell[6,7], J. Safer-Lichtenstein[8], J. L. Martucci[9], A. Verbalis[10], S. Seese[6], L. Kenworthy[11] and L. G. Anthony[10], (1)Children's National Medical Center, Arlington, VA, (2)Children's National Medical Center, Silver Spring, MD, (3)TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC, (4)Yale Child Study Center, New Haven, CT, (5)Department of Psychology, Columbia University, New York, NY, (6)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (7)Catholic University of America, Washington, DC, (8)Georgetown University, Washington, DC, (9)Neuropsychology, Children's National Health System, Rockville, MD, (10)Children's National Medical Center, Rockville, MD, (11)Children's Research Institute, Children's National Medical Center, Rockville, MD

168 124.168 "Emodiversity" in Individuals with Autism Spectrum Disorder A. C. Samson[1], J. Bryjova[2], J. M. Phillips[3], J. Gross[4] and A. Y. Hardan[3], (1)Swiss Center for Affective Sciences, University of Geneva, Geneva, Switzerland, (2)Department of Psychology, University of Fribourg, Fribourg, Switzerland, (3)Stanford University, Stanford, CA, (4)Department of Psychology, Stanford University, Stanford, CA

Poster Session
125 - Service Delivery/Systems of Care
5:30 PM - 7:00 PM - Hall A

169 125.169 A Mixed Methods Approach to Describing Family Navigation As a Service Model within the Autism Speaks Autism Treatment Network K. Kubicek[1], D. S. Murray[2], K. Kuhlthau[3], D. L. Coury[4], D. Zand[5] and M. D. Kipke[1], (1)Children's Hospital Los Angeles, Los Angeles, CA, (2)Autism Speaks, Boston, MA, (3)General Academic Pediatrics, Massachusetts General Hospital, Newburyport, MA, (4) Nationwide Children's Hospital, Columbus, OH, (5)Saint Louis University, St Louis, MO

170 125.170 A Profile on Emergency Department Visits in Adolescents with Autism Spectrum Disorders G. Liu[1], L. Kong[1], D. Leslie[1] and M. Murray[2], (1)Public Health Sciences, Penn State College of Medicine, Hershey, PA, (2)Psychiatry, Penn State Hershey, Hershey, PA

171 125.171 A Statewide Needs Assessment Survey for School-Age Children with Autism Spectrum Disorder S. Trost[1], S. Srinivasan[2], L. O'Regan[1], A. Ekbladh[3], B. Freedman[4] and A. N. Bhat[2], (1)Physical Therapy, University of Delaware, Newark, DE, (2)University of Delaware, Newark, DE, (3)Center for Disability Studies, University of Delaware, Newark, DE, (4)University of Delaware Center for Disabilities Studies, Newark, DE

172 125.172 A Survey on Mitigating Barriers to Dental Care for Children with Special Health Care Needs By Providing Dental Treatment Under General Anesthesia L. Orsini[1], R. Turchi[2], S. Shah[2], M. Kondrad[3], J. J. Kim[4] and D. L. Robins[5], (1)Pennsylvania Chapter of the American Academy of Pediatrics, Media, PA, (2)Drexel University, Philadelphia, PA, (3)St. Christopher's Hospital for Children, Philadelphia, PA, (4)Department of Epidemiology, Drexel University, Philadelphia, PA, (5)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

173 125.173 ASD-Related Networks: The Rare Epilepsy Network J. M. Buelow, Epilepsy Foundation, Landover, MD

174 ▸125.174 Age of Diagnosis of Autism Spectrum Disorder in an Ethnically Diverse Population before and after the 2007 AAP Recommendation for Universal Screening M. D. Valicenti-McDermott[1,2], L. H. Shulman[1,2] and R. M. Seijo[1,2], (1)Pediatrics, Montefiore Medical Center, Bronx, NY, (2)Albert Einstein College of Medicine, Bronx, NY

175 125.175 An ASD-Specific Training Model for Medical Staff to Support Provision of ASD-Friendly Medical Care L. Dewey[1] and E. Bernabe[2], (1)Nemours/Alfred I duPont Hospital for Children, Wilmington, DE, (2)Nemours/AIDHC, West Chester, PA

176 125.176 Autism and Vaccines: Are Siblings Affected? E. Agbese[1,2], D. Velott[1] and D. Leslie[1,2], (1)Public Health Sciences, Penn State College of Medicine, Hershey, PA, (2)Center for Applied Studies in Health Economics, Penn State College of Medicine, Hershey, PA

177 125.177 Barriers and Facilitators to Treating Sleep Problems in Children with ASD: Gathering Parent and Health Care Professional Perspectives Via Online Synchronous Focus Groups K. M. Tan-MacNeill[1], I. M. Smith[2] and P. Corkum[3], (1)Dalhousie University, Halifax, NS, Canada, (2)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (3) Dalhousie University & IWK Health Centre, Halifax, NS, Canada

178 125.178 Building Specialized, Elderly-ASD Specific Residential Care for People with ASD Moving into Old Age L. A. Jensen[1] and D. Allen[2], (1)Specialist Area Autism, Hinnerup, Denmark, (2)GHA Autism Supports, Albemarle, NC

179 ▸125.179 Challenges for Translating Early Intervention Evidence into Practice in ASD Community Settings T. Iacono[1], K. Hudry[2], J. L. Spong[1], C. Dissanayake[3], D. Trembath[4] and S. Erickson[5], (1)La Trobe University, Bendigo, Australia, (2)Olga Tennison Autism Research Centre, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (4)Menzies Health Institute Queensland, Griffith University, Gold Coast, Australia, (5)La Trobe University, Melbourne, Australia

180 ▸125.180 Characteristics of Patients with Autism Spectrum Disorders Who Successfully Initiate Behavioral Intervention Services N. M. Shankute[1], M. N. Davignon[2], C. K. Yoshida[1], M. L. Massolo[1] and L. A. Croen[1], (1)Division of Research, Kaiser Permanente, Oakland, CA, (2) Kaiser Roseville Medical Center, Roseville, CA

181 125.181 Co-Located Behavioral Assessment Services for Children with ASD in Pediatric Primary Care Settings K. Herrington, J. F. Hine and Z. Warren, Vanderbilt University, Nashville, TN

182 125.182 Combining Web-Based Learning, Interactive Instruction and Remote Supervision to Train Community-Based Providers in a Parent Coaching Intervention for ASD A. Wainer[1], K. Pickard[2] and B. Ingersoll[2], (1)Rush University Medical Center, Chicago, IL, (2)Michigan State University, East Lansing, MI

183 125.183 Community Training Outreach: The Utah Network for Early Autism Response S. S. Manwaring[1], T. Cardon[2], A. J. Fischer[1], S. Cunningham[1], A. Stevens[1], A. V. Kirby[1], R. West[3], S. Iverson[4], B. Robinson[5], C. Guy[6], M. Reidy[7], D. Burgon[1] and T. P. Gabrielsen[8], (1) University of Utah, Salt Lake City, UT, (2)Utah Valley University, Vineyard, UT, (3)Utah State University, Logan, UT, (4)Washington State University, Pullman, WA, (5)Primary Children's Hospital, Salt Lake City, UT, (6) Wyoming Institute for Disabilities (WIND), University of Wyoming, Laramie, WY, (7)University of Texas Medical Branch, Galveston, UT, (8)Brigham Young University, Provo, UT

184 125.184 Concern May Not Equal Action: Outcome Data in a Universal ASD Screening Sample T. P. Gabrielsen[1], M. E. Villalobos[2], M. Farley[3], L. Speer[4], N. Buerger[5] and J. Miller[6], (1)Brigham Young University, Provo, UT, (2)TEACCH Autism Program University of North Carolina Chapel Hill, NC, Asheville, NC, (3)Waisman Center-University of WI, Madison, WI, (4)Cleveland Clinic, Cleveland, OH, (5)University of Utah, Salt Lake City, UT, (6)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

185 125.185 Cost-Effectiveness Analysis of Wait Time Reduction for Intensive Behavioral Intervention in Ontario C. Piccininni[1] and M. Penner[2], (1)Queen's University, Kingston, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

186 125.186 Depression in Parents of Children Diagnosed with Autism Spectrum Disorder A. Cohrs[1,2] and D. Leslie[1,2], (1)Public Health Sciences, Penn State College of Medicine, Hershey, PA, (2)Center for Applied Studies in Health Economics, Penn State College of Medicine, Hershey, PA

187 125.187 Determinants of Wait Time for Autism Spectrum Disorder Diagnostic Assessment in Canada M. Penner[1], E. Anagnostou[2] and W. Ungar[3], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)University of Toronto, Toronto, ON, Canada, (3)Hospital for Sick Chidlren, Toronto, ON, Canada

188 125.188 Development of a Clinically Integrated Return of Results Protocol for Genetics Research in Autism I. Peltekova[1,2,3], L. Stern[4], D. Buhas[5] and M. Elsabbagh[6], (1)Integrated Program in Neuroscience, McGill University, Montreal, QC, Canada, (2)Developmental and Behavioural Pediatrics, Montreal Children's Hospital, Montreal, QC, Canada, (3)Psychiatry, Autism Research Program, Montreal, QC, Canada, (4)Montreal Children's Hospital, Montreal, QC, Canada, (5)Genetics, Montreal Children's Hospital, Montreal, QC, Canada, (6)McGill University, Montreal, PQ, Canada

189 125.189 Do Teachers Teach Social Skills to Students with Autism Spectrum Disorder and Students with Intellectual Disabilities? K. Kemp[1] and H. M. Chiang[2], (1)Rhode Island College, Providence, RI, (2) Teachers College Columbia University, New York, NY

190 125.190 Early Intervention Providers in the Field: Barriers and Incentives to Professional Development and Coaching in Evidence-Based Practices for Autism Spectrum Disorder E. Chapman[1], N. D. Bond[1], S. K. Fuhrmeister[1], J. L. Stapel-Wax[2], T. Ryan[3], S. E. Gillespie[4], M. Costo[1] and K. Terry[1], (1)Marcus Autism Center, Atlanta, GA, (2)Emory University School of Medicine, Atl, GA, (3)Marcus Autism Center, Duluth, GA, (4) Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA

191 125.191 Echo Autism: Bringing Best Autism Care to Primary Care K. Sohl[1], A. Curran[2], R. M. Brown[3] and M. O. Mazurek[4], (1)University of Missouri - Thompson Center, Columbia, MO, (2)University of Missouri, Columbia,, MO, (3)University of Missouri, Columbia, MO, (4)University of Missouri - Columbia, Columbia, MO

192 125.192 Emergency Psychiatric Service Use and Continuity of Care Among Youth with Autism Spectrum Disorder L. Kalb and E. Stuart, Johns Hopkins School of Public Health, Baltimore, MD

193 125.193 Enhanced Screening Methods Increase Percentage of Children with ASD Diagnosed in a Clinical Setting C. Hall and S. Hoffenberg, Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA

194 125.194 Examining Transition and Vocational Pathways in ASD: Perspectives of Individuals with ASD and Parents D. B. Nicholas[1], M. Clarke[2,3], L. Zwaigenbaum[4], K. C. Lowe[2,5], S. Hodgetts[4], W. Mitchell[6], C. A. McMorris[7], R. Zulla[1] and T. M. Jubenville[5], (1)University of Calgary, Edmonton, AB, Canada, (2)Sinneave Family Foundation, Calgary, AB, Canada, (3)Uni, Calgary, AB, Canada, (4)University of Alberta, Edmonton, AB, Canada, (5)University of Calgary, Calgary, AB, Canada, (6)The Ability Hub, Calgary, AB, Canada, (7)York University, Toronto, ON, Canada

195 125.195 Exploring the Relationship Between Referral Source, Evaluation Setting, and Cognitive/Behavioral Characteristics in Children Referred for Psychological Evaluation E. L. Wodka[1], A. Pittenger[2] and S. Erklin[3], (1)Kennedy Krieger Institute, Baltimore, MD, (2)The Kennedy Krieger Institute, Baltimore, MD, (3)Outpatient Pediatrics, Northwestern Medicine, Winfield, IL

196 125.196 First Steps: Parent Education to Support Family Empowerment J. Mancini, Seattle Children's Autism Center, Seattle, WA

197 125.197 Foster Care Placement Among Medicaid-Insured Children with Autism Z. Cidav[1], M. Xie[1] and D. S. Mandell[2], (1)University of Pennsylvania, Philadelphia, PA, (2)University of Pennsylvania School of Medicine, Philadelphia, PA

198 125.198 Gender Disparities in the Allocation of Special Education Services M. Dean[1], J. Williams[2], R. Harwood[3] and C. Kasari[4], (1)California State University, Channel Islands, Camarillo, CA, (2)Semel Research Institute, UCLA, Los Angeles,, CA, (3)Maternal and Child Health, Health Resources and Services Administration, Rockville, MD, (4) University of California Los Angeles, Los Angeles, CA

199 125.199 Impact of the New DSM-5 Criteria for ASD on the Number of Children Receiving Autism Specific Funding: An Analysis of Change in Incidence over Time C. A. Bent[1], J. Barbaro[2] and C. Dissanayake[3], (1)La Trobe University, Melbourne, VIC, Australia, (2)La Trobe University, Melbourne, Victoria, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

200 125.200 Leisure Activity Enjoyment Among Children with ASD C. L. Hilton[1], D. M. Collins[2] and M. Eversole[2], (1)University of Texas Medical Branch, Galveston, TX, (2)Occupational Therapy, University of Texas Medical Branch, Galveston, TX

201 125.201 Linking Clinic and Hospital Data with Patients and Families A. Seib, National Association for Trusted Exchange, Germantown, MD

202 125.202 Meeting the Needs of Families Affected By Autism Spectrum Disorder through Delivery of a Best-Practice Model of Care Coordination R. McNally Keehn[1], R. Rodgers[2] and J. W. McAllister[3], (1) Pediatrics, Indiana University School of Medicine, Indianapolis, IN, (2) Pediatrics, Indiana School of Medicine, Indianapolis, IN, (3)Children's Health Services Research, Indiana University School of Medicine, Indianapolis, IN

203 125.203 Methods for Quantifying Medical and Financial Benefits of Acute Behavioral Response during Inpatient Hospitalizations for Children with ASD S. Marler[1], J. E. Staubitz[2], P. Juarez[3], Z. Warren[1], L. L. Altstein[4], E. A. Macklin[5] and K. Sanders[6], (1)Vanderbilt University, Nashville, TN, (2)Pediatrics, Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University Medical Center, Nashville, TN, (4) Massachusetts General Hospital Biostatistics Center, Boston, MA, (5) Biostatistics Center, Massachusetts General Hospital, Boston, MA, (6) Vanderbilt, Nashville, TN

204 125.204 Next Steps – Improving Transition Outcomes through Caregiver Education D. M. Eaton[1], R. Oti[1], G. Stobbe[1], K. Davis[1] and A. Owens[2], (1)Seattle Children's Hospital, Seattle, WA, (2)University of Washington, Seattle, WA

205 125.205 Oral Health Care and Challenges Facing Dentists and Families of Children with Autism Spectrum Disorder (ASD) in Dental Clinics in the Kingdom of Saudi Arabia (KSA) H. M. Al Dhalaan[1], K. A. Alhammad[2], M. S. Zakaria[3] and H. A. Masadomi[4], (1)King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (2)Riyadh college of dentistry and pharmacy, Riyadh, Saudi Arabia, (3)centre for autism research, riyadh, Saudi Arabia, (4)Research Centre, Riyadh college of dentistry and pharmacy, Riyadh, Saudi Arabia

206 ▸ 125.206 Parents› Beliefs about Autism: A Link to Intervention Services in English and Spanish Language Proficient Families N. M. Reyes[1], O. J. Lindly[2], A. E. Chavez[3], K. Macias[4], A. Folan[5], K. Smith[6], A. M. Reynolds[5] and K. Zuckerman[7], (1)Box C-234, University of Colorado - Denver, Aurora, CO, (2)Oregon State University, Portland, OR, (3)Oregon Health and Science University, Portland, OR, (4)UCEDD Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA, (5)University of Colorado - Denver, Aurora, CO, (6)Children's Hospital Los Angeles, Pasadena, CA, (7)Oregon Health & Science University, Portland, OR

207 125.207 Pathways to Early Autism Diagnosis and Intervention M. Martinez[1], K. Thomas[2], R. Christian[3], R. Edmondson Pretzel[4] and S. R. Hooper[5], (1)Cecil G. Sheps Center for Health Services Research, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of North Carolina at Chapel Hill, Cecil G. Sheps Center for Health Services Research, Chapel Hill, NC, (3)Carolina Institute for Developmental Disabilities, Chapel Hill, NC, (4)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5) Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

208 125.208 Pcornet- Creating a National Network of Patient-Powered Research Networks S. F. Terry, Genetic Alliance, Washington, DC

209 125.209 People with Autism Spectrum Disorder in Criminal Justice and Mental Health Systems: Improving Recognition and Developing Preliminary Guidelines C. M. Murphy[1], G. M. McAlonan[2], J. Harvey[3], E. L. Woodhouse[4], D. M. Robertson[5], S. Whitwell[6], A. Carrier[6], A. Forrester[6] and D. G. Murphy[7], (1)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Science, IoPPN, KCL, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, IoPPN, KCL, London, United Kingdom, (4)Forensic & Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (5)Adult Autism Service/Behavioural Genetics Clinic, Maudsley Hospital, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciience, IoPPN, KCL, London, United Kingdom, (7)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

210 ▸ 125.210 Pilot Test of a Model for Remote Provision of Evidence-Based Services for Rural Families of Children with Autism Spectrum Disorder K. M. Simcoe[1], M. Martinez[2], A. Stainbrook[3], P. Juarez[1] and Z. Warren[4], (1)Vanderbilt University Medical Center, Nashville, TN, (2) Vanderbilt University Medical Center- Treatment and Research Institute for Autism Spectrum Disorder, Nashville, TN, (3)Vanderbilt Kennedy Center, Nashville, TN, (4)Vanderbilt University, Nashville, TN

211 125.211 Pre-Professional Preparation of Speech-Language Pathologists to Serve Individuals with ASD Across the Lifespan K. P. Wilson[1], J. Preis[2], G. Chasson[3], A. C. Jozkowski[4] and C. Shotto[1], (1) Department of Audiology, Speech-Language Pathology, and Deaf Studies, Towson University, Towson, MD, (2)Department of Speech-Language-Hearing Sciences, Loyola University Maryland, Baltimore, MD, (3)Department of Psychology, Towson University, Towson, MD, (4) Department of Occuptional Therapy and Occupational Science, Towson University, Towson, MD

212 125.212 Priority Service Receipt of Individuals with ASD Across the Lifespan: Findings from a Canadian National Survey J. K. Lai[1] and J. A. Weiss[2], (1)Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada

213 125.213 Right Kids, Right Time, Right Services: Developmental Surveillance in Early Childhood Education Settings B. Mozolic-Staunton[1], J. Barbaro[2], M. Donelly[1] and J. Yoxall[1], (1)School of Health and Human Sciences, Southern Cross University, Bilinga, Australia, (2)La Trobe University, Melbourne, Victoria, Australia

214 125.214 Satisfaction with Care Coordination Program for Families of Children with Autism Spectrum Disorders M. H. Pinkett-Davis[1], V. Singh[2], A. Schrembs[3] and R. Landa[3], (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)The Kennedy Krieger Institute, Baltimore, MD

215 125.215 School Placement Outcomes and Services at Preschool, Kindergarten, and School-Age for Children Diagnosed with ASD before Age Three Years P. Towle[1] and A. E. Ausikaitis[2], (1) Westchester Insitute for Human Development, Valhalla, NY, (2)Cerebral Palsy of Westchester, Rye Brook, NY

216 ▸ 125.216 Service System and Cognitive Outcomes for Young Children with Autism Spectrum Disorder in a Rural Area of Taiwan C. H. Chiang[1], C. L. Chu[2], C. C. Wu[3] and Y. M. Hou[4], (1)National Chengchi University, Taipei, Taiwan, (2)Psychiatry, National Cheng Kung Universitity and Hospital, Tainan, Taiwan, (3)Department of Psychology, Kaohsiung Medical University, Kaohsiung City, Taiwan, (4)Chia-Yi Christian Hospital, Chiayi City ,Taiwan, Taiwan

217 125.217 Service Usage, Needs, and Obstacles for Adults Living and Not Living with Family: A Message Regarding Public Policy K. M. Dudley[1], L. G. Klinger[2], J. L. Mussey[3] and M. R. Klinger[4], (1)TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC, (2)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (3)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC

218 125.218 South Carolina›s Use of Presumptive Eligibility to Improve Early Identification and Intervention for Young Children with ASD D. A. Rotholz[1], A. M. Kinsman[2], J. M. Charles[3], K. Musick[4] and K. K. Lacy[5], (1)Center for Disability Resources (UCEDD), Columbia, SC, (2) Greenville Health System, Greenville, SC, (3)Pediatrics, Medical University of South Carolina, Charleston, SC, (4)South Carolina BabyNet (Part C), Columbia, SC, (5)South Carolina Department of Disabilities and Special Needs, Columbia, SC

219 125.219 Stakeholder Perspective on Transition Planning for Youth with ASD **L. A. Ruble**[1], C. Snell-Rood[2], M. W. Jackson[3], W. H. Wong[1], Y. Yu[4], A. D. Rodgers[1], J. ". A. Odom[1] and J. H. McGrew[5], (1) University of Kentucky, Lexington, KY, (2)Behavioral Sciences, University of Kentucky, Lexington, KY, (3)Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (4)Indiana University-Purdue University, Indianapolis, IN, (5)Indiana University - Purdue University Indianapolis, Indianapolis, IN

220 125.220 Supporting Children with Autism Spectrum Disorder (ASD) on the Day of Surgery: A Balancing Act **S. L. Snow**[1,2], J. Chorney[2], M. Latimer[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

221 125.221 Systematic Review of Clinical Guidance Documents for Autism Spectrum Disorder Diagnostic Assessment E. Anagnostou[1], M. **Penner**[2] and W. Ungar[3], (1)University of Toronto, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Hospital for Sick Chidlren, Toronto, ON, Canada

223 125.223 The Feasibility of Implementing and Assessing Acute Behavioral Interventions in an Inpatient Setting for Children and Adolescents with ASD: Challenges and Lessons **S. Marler**[1], J. E. Staubitz[2], P. Juarez[3], Z. Warren[1], L. L. Altstein[4], E. A. Macklin[5] and K. Sanders[6], (1)Vanderbilt University, Nashville, TN, (2)Pediatrics, Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University Medical Center, Nashville, TN, (4)Massachusetts General Hospital Biostatistics Center, Boston, MA, (5)Biostatistics Center, Massachusetts General Hospital, Boston, MA, (6)Vanderbilt, Nashville, TN

224 ▸ 125.224 The Impact of Demographics on Service Utilization Among Youth with Autism Spectrum Disorder R. Gott[1], **C. R. Shoff**[2] and P. Xaverius[3], (1)Saint Louis University, Clayton, MO, (2)Pediatrics, Saint Louis University, Saint Louis, MO, (3)Epidemiology, Saint Louis University, Saint Louis, MO

225 125.225 The Role of Professional Responses to Parental Concern in Predicting the Timeliness of Autism Spectrum Disorder Diagnosis **C. A. Bent**[1], J. Barbaro[2] and C. Dissanayake[3], (1)La Trobe University, Melbourne, VIC, Australia, (2)La Trobe University, Melbourne, Victoria, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

226 125.226 The Role of Self-Efficacy When Preparing Teachers in Autism Spectrum Disorders **J. Salt** and K. Johnsen, Have Dreams, Park Ridge, IL

227 ▸ 125.227 Therapy and Medication Use in Young Children with Autism: A Secondary Data Analysis from the Autism Speaks-Autism Treatment Network **D. Ziskind**[1], A. Bennett[1], A. F. Jawad[2] and N. Blum[1], (1)Developmental & Behavioral Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA

228 125.228 Training Needs of Health Professionals Working with Adults on the Autism Spectrum K. van Dooren[1,2], T. Parkin[3], **S. J. Girdler**[4,5], A. Urbanowicz[6,7], M. Ciccarelli[3,6] and N. Lennox[6,8], (1)Queensland University, Queensland Centre for Intellectual and Developmental Disability, South Brisbane, Australia, (2)Cooperative Research Centre for Living with Autism Spectrum Disorders, long Pocket, Brisbane, Australia, (3)School of Occupational Therapy and Social Work, Curtin University, Bentley, Australia, (4)School of Occupational Therapy and Social Work, Curtin University, Perth, WA, Australia, (5)Cooperative Research Centre for Living with Autism Spectrum Disorders (Autism CRC), Brisbane, Australia, (6)Cooperative Research Centre for Living with Autism Spectrum Disorders, Long Pocket, Brisbane, Australia, (7)University of Queensland, Queensland Centre for Intellectual and Developmental Disability, South Brisbane, Australia, (8)The University of Queensland, Queensland Centre for Intellectual and Developmental Disability, South Brisbane, Australia

229 ▸ 125.229 Using Community Partnerships to Better Understand the Barriers to Using an Evidence-Based, Parent Mediated Intervention for ASD in a Medicaid System **K. Pickard** and B. Ingersoll, Michigan State University, East Lansing, MI

230 125.230 Using Quality Improvement Collaboratives to Improve Early Identification of Autism By Primary Care Providers Serving Low Resource Urban Communities **M. Siller**[1], E. R. Hotez[2] and M. R. Swanson[3], (1)Hunter College of the City University of New York, New York, NY, (2)The Graduate Center of the City University of New York, New York, NY, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC

231 125.231 Using Technology to Create Sustainable Systems of Support for Toddlers at Risk for Autism Spectrum Disorder **S. K. Fuhrmeister**[1], E. Brooker Lozott[2], K. Resua[1], T. Ryan[1], M. Costo[1] and J. L. Stapel-Wax[3], (1)Marcus Autism Center, Atlanta, GA, (2)Els for Autism Foundation, Jensen Beach, FL, (3)Emory University School of Medicine, Atl, GA

232 125.232 What Happens after the Workshop? Factors Associated with Sustained Use of an Evidence-Based Intervention for Children with ASD in Community Practice **C. M. Harker**, L. V. Ibanez, S. R. Edmunds, E. A. Karp and W. L. Stone, Department of Psychology, University of Washington, Seattle, WA

233 125.233 When Should Next Generation Sequencing be Used in Children at High-Risk for Autism Spectrum Disorder? **T. Yuen**[1,2], W. Ungar[3], P. Szatmari[4] and M. T. Carter[5], (1)Technology Assessment at Sick Kids, Hospital for Sick Chidlren, Toronto, ON, Canada, (2)Institute of Health Policy, Management and Evaluation, University of Toronto, Toronto, ON, Canada, (3)Hospital for Sick Chidlren, Toronto, ON, Canada, (4)Centre for Addiction and Mental Health, Toronto, ON, Canada, (5) Hospital for Sick Children, Toronto, ON, Canada

Special Interest Groups (SIGs)

Friday, May 13, 2016: 7:15 AM - 8:45 AM

Location listed under each session

130 - Implementing and Evaluating Community-Based Early Intervention

Room 307

SIG Leaders: Kristelle Hudry & Giacomo Vivanti

Co-Leader (ECR): Melissa Maye

While the standard of research evaluating efficacious early-intervention for autism has increased substantially, we are striving to progress evaluations of effectiveness to determine the real-world impact of community-based early-intervention (CBEI). Conducting rigorous research within community-based settings brings significant methodological challenges, and at our first SIG in 2015, we showcased the variety of studies currently underway around the world via a series of short presentations by 10 SIG members representing various groups and intervention models. These presentations and the subsequent discussion from the floor highlighted the variety of challenges inherent in conceptualising and executing CBEI research. In 2016, we will draw on the points raised at the 2015 SIG meeting and elaborate these through a series of invited presentations from SIG members. Group discussion will follow with the aim of defining a vision for the field and concrete steps for how to move forward.

131 - Moving Past the Categories: Creating Novel Re-conceptualizations of the ASD Diagnosis and Phenotype

Room 308

SIG Leaders: Eric London, Christopher Gillberg

Faculty: Nancy Minshew, Emanuel DiCicco-Bloom, Susan Hyman, Tristram Smith, Margaret Bauman, Marshalyn Yeargin-Allsopp, Matthew Maenner

Co-Leader: Alexis Stevenson

There are many serious clinical and research problems with the categorical diagnosis of ASD which have been well documented and has prompted the NIMH to support the RDoCs in lieu of DSM diagnosis for research. The centrality of a category which might not be a “natural kind” has the potential to derail progress in improving the treatment of those affected with autism. Nevertheless, a nosology is needed, and replacing the DSM is a daunting task which will require a large scale effort and ultimately consensus. The goal of this SIG is to begin the process of creating an instrument which can be used universally for both clinical work and research. This will be in the form of a 5 tier electronic medical record (EMR). The tiers are 1) primary care 2) specialty data; 3) etiologic data; 4) functional status 5) treatment response. After a brief presentation of the issues prompting this effort, and a description of the particulars of the EMR, the participants will break up into working groups to begin the process of creating templates for a particular topic. Examples of group topics are creating templates to measure social symptoms, motor symptoms, anxiety symptoms, autonomic symptoms, functional measures, translational measures bridging biologic findings with clinical findings etc. Attention will be paid to the symptoms which vary with development. It is anticipated that participants in the groups might go on to continue to work on their topics offering opportunities for younger investigators to take on leadership roles in the development of the EMR and to create a research agenda to accomplish this.

132 - Older Adults with ASD: The Consequences of Aging

Room 309

SIG Leaders: Hilde Geurts

Co-Leader: Amanda Roestorf

The first cohorts of people with ASD diagnosed in childhood are approaching old age (55+). Unfortunately, we hardly know what the future in late adulthood brings. Are there specific needs with respect to the care of these older individuals? Will there be accelerated cognitive decline? How can we differentiate between ASD related cognitive problems and emerging dementia? We do not have the answers yet. The objective of this SIG is to exchange the sparse knowledge on, respectively, care for older individuals; cognitive aging; and assessment of ASD in older individuals. Around each of these three topics smaller groups will meet for a short time to identify priorities and challenges to overcome when studying this specific group. Each group will present to the whole group for discussion and as a starting point for future collaborations.

133 - Suicidality in Autism Spectrum Conditions: Setting Priorities for Future Research

Room 310

SIG Leaders: Sarah Cassidy (Coventry University, UK), Jacqui Rodgers (Newcastle University, UK), Mikle South (Brigham Young University, US), Lori McIlwain (National Autism Association co-founder and board chair, autism advocate).

Co-Leaders: Magda Glod and Kathryn Cook

Recent research has shown high rates of suicidal thoughts, behaviors, and completed suicides in people with Autism Spectrum Conditions (ASC). Systematic reviews have highlighted methodological weaknesses in the limited number of available studies; small non-representative samples, unconfirmed ASC diagnosis, lack of valid measures or attention to risk and protective factors. This impedes development of new theories and interventions to understand and reduce suicide risk in ASC. This SIG therefore aims to identify priorities for future research and training, and develop new collaborations, in order to increase the amount, pace, quality, scale and scope of suicidality in ASC research. The session will begin with quick fire presentations on the current state of the evidence. Small working groups will then identify the most important question for future research to address. A chaired large group discussion will then focus on prioritizing the proposed research questions, and what specific next steps are needed to realize these. The trainee co-leads will summarize the outcomes of the SIG, discuss and identify training needs and career opportunities in this area, and match students with group members with similar interests.

Welcome Address and Sponsor Update

8:45 - Welcome from IMFAR Organizers
8:50 - Autism Speaks Update
Hall B

Keynote Address

136 - Dissecting Synaptic and Circuitry Mechanisms of Autism
9:00 AM - 10:00 AM - Hall B

Speaker: Guoping Feng, MIT McGovern Insitute for Brain Research, Boston, MA

Recent genetic studies have identified a large number of candidate genes for autism spectrum disorder (ASD), many of which encode synaptic proteins, suggesting that synaptic dysfunction might be a key pathology in ASD. In addition, recently, genetic studies have revealed a significant overlap of risk genes for ASD and schizophrenia. However, it is not clear how different mutations of the same gene could contribute to the manifestation of different diseases. One such example is the Shank3 gene. The Shank3 gene encodes a postsynaptic scaffolding protein critical for the development and function of glutamatergic excitatory synapses. Disruption of the Shank3 gene is thought to be the cause of the core neurodevelopmental and neurobehavioral deficits in Phelan-McDermid Syndrome, an autism spectrum disorder. Using various Shank3 mutant mice as a model system, I will discuss (1) recent findings on synaptic and circuit mechanisms underlying autistic-like behaviors in Shank3 mutant mice; (2) the reversibility of synaptic, circuit and behavioral abnormalities in adult mutant mice; and (3) molecular and synaptic mechanisms that may explain how different alleles of the same gene lead to distinct synaptic and behavioral phenotypes in mice. Together, these findings may inform exploration of neurobiological mechanisms of ASD in human patients.

Keynote Panel Session

137 - Recent Advances in Genetics and Neurobiology of Autism
10:30 AM - 12:30 PM - Hall B

Session Chair: G. Feng, *MIT McGovern Insitute for Brain Research, Boston, MA*

Both genetic and environmental factors play important roles in the pathogenesis of autism spectrum disorder. The four panel members, each at the forefront of their respective fields, will discuss recent advances in large-scale genetic studies, neuro-immunology crossroad, and iPS cell technologies in the effort to unravel the etiology and neurobiology of autism spectrum disorder.

10:30 137.001 Emerging Genetic Analyses of Autism Spectrum Disorders: Insights from Common and Rare Variation B. Neale, Broad Institute, Cambridge, MA

11:00 137.002 A Multi-Omics Analysis of the Autism Brain D. Arking, Johns Hopkins University School of Medicine, Baltimore, MD

11:30 137.003 The Maternal Interleukin-17a Pathway in Mice Promotes Autism-like Phenotypes in Offspring G. Choi, MIT McGovern Insitute for Brain Research, Cambridge, MA

12:00 137.004 From Cortical Development to Cortex in the Dish: Modeling Human Neurodevelopmental Disease P. Arlotta, Harvard, Cambridge, MA

Panel Session

138 - Growing Older with Autism: Cognition, Comorbidity and Quality of Life
10:30 AM - 12:30 PM - Room 307

Session Chair: D. M. Bowler, *Psychology, City University London, London, United Kingdom*

Discussant: L. G. Klinger, *Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC*

Although it has been known for several decades that autistic individuals grow older, it is not until the last few years that there has been any research into the effects of aging in this population. This is surprising given that ageing in typical as well as other atypical populations carries with it a considerable burden for the individual in terms of cognitive and adaptive changes, and for society in terms of increased demands on systems of care provision. The four presentations in this panel report on age-related, later lifespan differences in cognition, quality of life and psychiatric comorbidities. These studies, although cross-sectional in nature, will lay the groundwork for future longitudinal follow-up investigations.

10:30 138.001 The Association Between Cognitive Ability and Psychiatric Problems in Adults with ASD P. Howlin[1] and P. Moss[2], (1)King's College London, Institute of Psychiatry, London, England, United Kingdom of Great Britain and Northern Ireland, (2)Kings College London, London, England, United Kingdom of Great Britain and Northern Ireland

10:55 138.002 ASD-Related and Psychiatric Symptomatology Across the Adult Lifespan A. G. Lever[1] and H. M. Geurts[2,3], (1)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam; Dr. Leo Kannerhuis, Amsterdam, Netherlands, (3)Dept. of Research, Development & Innovation, Dr. Leo Kannerhuis, Doorwerth, Netherlands

11:20 138.003 Ageing and Autism Spectrum Disorder: Symptom Severity, Life Outcome and Additional Mental Health Conditions in Adults Coming for First Diagnosis E. Zivrali[1], F. Happé[1] and P. Howlin[2], (1)Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)King's College London, Institute of Psychiatry, London, England, United Kingdom of Great Britain and Northern Ireland

11:45 138.004 Ageing with Autism: Memory and Quality of Life A. Roestorf[1], P. Howlin[2] and D. M. Bowler[3], (1)City University London, London, United Kingdom of Great Britain and Northern Ireland, (2)King's College London, Institute of Psychiatry, London, England, United Kingdom of Great Britain and Northern Ireland, (3)Psychology, City University London, London, United Kingdom

12:10 Discussant

Panel Session
139 - What Is Different about Females with Autism: Where Are We and Where Do We Need to Go?
10:30 AM - 12:30 PM - Room 308

Session Chair: A. B. Ratto, *Children's National Medical Center, Silver Spring, MD*

Discussant: J. Bascom, *Autistic Self Advocacy Network, Washington, DC*

Autism spectrum disorder (ASD) occurs significantly less often in females than in males, particularly among those without comorbid intellectual disability. Consistent with these discrepant prevalence rates, ASD research has often focused primarily on males, limiting our knowledge of the ASD profile in females. Increasingly, research examining gender differences in ASD has found that females may be affected differently than males by this disorder. Prior research has indicated that there are differences in symptom profiles, delays in diagnosis, and differential impacts on daily functioning, but the direction of effects differs notably across studies. The presentations in this panel will focus on the unique presentation of ASD symptoms in females, particularly those without intellectual disability. A meta-analysis of existing research will review findings over the past several decades regarding gender differences in symptom profiles across the range of intellectual disability. Other presentations will discuss gender differences in adaptive behavior, executive functioning, and core ASD symptoms, with a focus on females without intellectual disability. Implications of these findings for better understanding the diagnosis of ASD among females, as well as long-term impacts on daily functioning, will be discussed.

10:30 139.001 A Systematic Review and Meta-Analysis Reveals Sex Differences in Rrbis in School Age Children with ASD without ID **K. Register-Brown**[1], A. B. Ratto[2], C. E. Pugliese[3], A. Verbalis[3], C. Rothwell[4,5], J. L. Martucci[6], E. I. White[7], G. Wallace[8] and L. Kenworthy[9], (1)Child and Adolescent Psychiatry, University of Maryland, Baltimore, MD, (2)Children's National Medical Center, Silver Spring, MD, (3)Children's National Medical Center, Rockville, MD, (4)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (5)Catholic University of America, Washington, DC, (6)Neuropsychology, Children's National Health System, Rockville, MD, (7)NIMH, Bethesda, MD, (8)The George Washington University, Washington, DC, (9)Children's Research Institute, Children's National Medical Center, Rockville, MD

10:55 139.002 Sex Differences in Real-World Executive Functioning and Adaptive Behavior in Children and Young Adults with Autism Spectrum Disorder **E. I. White**[1], A. B. Ratto[2], A. C. Armour[3], K. Register-Brown[4], H. S. Popal[1], G. Wallace[5], A. Martin[1] and L. Kenworthy[6], (1)NIMH, Bethesda, MD, (2)Children's National Medical Center, Silver Spring, MD, (3)Children's National Medical Center, Arlington, VA, (4)University of Maryland, Gaithersburg, MD, (5)The George Washington University, Washington, DC, (6) Children's Research Institute, Children's National Medical Center, Rockville, MD

11:20 139.003 Gender Differences in Parent-Reported and Clinician-Rated Autism Symptoms **A. B. Ratto**[1], G. Wallace[2], C. E. Pugliese[3], J. L. Martucci[4], K. Register-Brown[5], E. I. White[6], H. S. Popal[6], C. Rothwell[7,8], A. Martin[6] and L. Kenworthy[9], (1)Children's National Medical Center, Silver Spring, MD, (2)The George Washington University, Washington, DC, (3)Children's National Medical Center, Rockville, MD, (4)Neuropsychology, Children's National Health System, Rockville, MD, (5)Child and Adolescent Psychiatry, University of Maryland, Baltimore, MD, (6)NIMH, Bethesda, MD, (7)Catholic University of America, Washington, DC, (8)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (9)Children's Research Institute, Children's National Medical Center, Rockville, MD

11:45 139.004 Gender Differences on the Newly Proposed ADOS-2, Module 4 Algorithm in ASD without ID: A Multi-Site Study L. G. Anthony[1], L. Kenworthy[2], G. Wallace[3], B. E. Yerys[4], B. B. Maddox[5], S. W. White[6], A. C. Armour[7], J. Miller[8], J. Herrington[9], R. T. Schultz[10], A. Martin[11] and **C. E. Pugliese**[1], (1)Children's National Medical Center, Rockville, MD, (2)Children's Research Institute, Children's National Medical Center, Rockville, MD, (3) The George Washington University, Washington, DC, (4)The Center for Autism Research, Philadelphia, PA, (5)Children's Hospital of Philadelphia, Philadelphia, PA, (6)Virginia Polytechnic Institute and State University, Blacksburg, VA, (7)Children's National Medical Center, Arlington, VA, (8)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (9)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (10)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (11)NIMH, Bethesda, MD

12:10 Discussant

Panel Session
140 - Perspectives on Pain in ASD: Perception, Physiology, and Behavior
10:30 AM - 12:30 PM - Room 309

Session Chair: M. D. Failla, *Vanderbilt University, Nashville, TN*

Discussant: C. J. Cascio, *Vanderbilt University School of Medicine, Nashville, TN*

Despite the common assumption that individuals with ASD are less sensitive to pain, empirical evidence is scarce and inconsistent. This panel will explore the available evidence, beginning with a systematic review of clinical behavioral studies suggesting that measurement approaches (e.g., facial affect, pain ratings, parent/self-report) heavily influence the presence and direction of reported differences in pain perception in individuals with ASD. This will be followed by three presentations that represent a range of these approaches, including clinical/caregiver report, psychophysics, functional neuroimaging, peripheral biopsy, and facial affect coding. The relation between pain and self-injurious behavior in ASD will be considered, and a summary discussion will synthesize the work presented with animal model and pharmacological perspectives. The goal of this panel is to provide an overview of available evidence for a severely under-studied aspect of sensory atypicality in ASD, and to encourage collaborative efforts integrating several of these approaches within the same population to clarify the emerging story of differences in pain perception in ASD. Given the potential for communication deficits to mask altered pain perception in verbal or nonverbal measures, creative approaches to understanding pain perception and processing are highly important for improving quality of life for individuals with ASD.

10:30 140.001 An Overview of Pain in Autism: Investigating Differences in Sensation, Feeling and Behaviours **D. J. Moore**, Natural Sciences and Psychology, Liverpool John Moores University, Liverpool, United Kingdom

10:55 140.002 Decreased Thermal Sensitivity in Adolescents with Autism Spectrum Disorder **E. G. Duerden**[1], M. J. Taylor[2], M. Lee[3], P. A. McGrath[4], K. D. Davis[5] and W. Roberts[6], (1)The Hospital for Sick Children, Toronto, ON, Canada, (2)Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada, (3)Hospital for Sick Children, Toronto, ON, Canada, (4)Pain Innovations Inc., London, ON, Canada, (5)Toronto Western Research Institute, University Health Network, Toronto, ON, Canada, (6)University of Toronto, toronto, ON, Canada

11:20 140.003 Temporally Distinct Neural Responses to Pain in ASD: Evidence for Altered Cognitive Pain Modulation and Relationships to Self-Injurious Behaviors **M. D. Failla**[1], E. J. Moana-Filho[2], G. K. Essick[3], G. T. Baranek[4], B. P. Rogers[1] and C. J. Cascio[5], (1) Vanderbilt University, Nashville, TN, (2)School of Dentistry, University of Minnesota, Minneapolis, MN, (3)School of Dentistry, University of North Carolina, Chapel Hill, NC, (4)UNC Chapel Hill, Chapel Hill, NC, (5)Vanderbilt University School of Medicine, Nashville, TN

11:45 140.004 Severe Self-Injury in Persons with Autism and Related Neurodevelopmental Disorders: Differences in Sensory, Autonomic, and Immune Markers Suggest Hyperalgesia **J. W. Bodfish**[1], M. Garrett[2], G. Wendelschafer-Crabb[3], W. Kennedy[3] and F. J. Symons[3], (1)Vanderbilt University School of Medicine, Nashville, TN, (2)Vanderbilt University Medical Center, Nashville, TN, (3)University of Minnesota, Minneapolis, MN

12:10 Discussant

Panel Session
141 - But It Worked So Well in the Lab! Measuring Implementation of Evidence-Based Practices for Children with Autism in Community Settings
10:30 AM - 12:30 PM - Room 310

Session Chair: J. J. Locke, *University of Washington Autism Center, Seattle, WA*

Discussant: D. S. Mandell, *University of Pennsylvania School of Medicine, Philadelphia, PA*

Implementation science comprises the study of methods to understand factors associated with successful integration of evidence-based interventions into community practice. There is evidence suggesting that it takes an average of 17 years for autism evidence-based interventions (EBI) to enter community practice settings. EBIs for children with autism often include complex and resource-intensive strategies that address different clinical outcomes that must fit with the resources and mission of the organizations in which they are implemented, and with the training and abilities of the practitioners using them. Research on use of EBIs in community settings must focus on implementation outcomes. These include the extent to which EBIs are: 1) implemented in the way they were designed (fidelity); 2) integrated within a service system (penetration); and 3) sustained once initial implementation efforts end (sustainment). We will present data from a: 1) randomized school-based implementation trial of a social engagement EBI for children with autism; 2) randomized school-based effectiveness trial of autism behavioral EBIs in public schools; 3) large-scale effectiveness trial of an autism behavioral EBI in publicly-funded mental health agencies; and 4) prospective, observational study of multiple EBIs implemented in a large-scale mental health system reform in which children with autism were served.

10:30 141.001 A Little Goes a Long Way: A Randomized Controlled Implementation Trial of a Social Engagement Intervention for Children with Autism Spectrum Disorder in Public Schools **J. J. Locke**[1], W. I. Shih[2], J. Caramanico[3], C. Oh[3] and D. S. Mandell[4], (1)University of Washington Autism Center, Seattle, WA, (2) UCLA, Monrovia, CA, (3)University of Pennsylvania, Philadelphia, PA, (4)University of Pennsylvania School of Medicine, Philadelphia, PA

10:55 141.002 Scaling up Fidelity Measurement of Autism Interventions in Schools **M. Pellecchia**[1], M. Seidman[1] and D. S. Mandell[2], (1)University of Pennsylvania, Philadelphia, PA, (2) University of Pennsylvania School of Medicine, Philadelphia, PA

11:20 141.003 Training Mental Health Providers to Deliver Evidence Based Interventions for Autism Spectrum Disorders (ASD): Training Predictors and Outcomes **C. Chlebowski** and L. Brookman-Frazee, Autism Discovery Institute at Rady Children's Hospital – San Diego, San Diego, CA

11:45 ▸141.004 Service Use Patterns of Youth with Autism Spectrum Disorder within a Large-Scale Implementation of Evidence-Based Practices Fiscally Mandated in Children's Mental Health Services **N. Stadnick**[1,2], A. Lau[3] and L. Brookman-Frazee[2,4], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)Psychology, University of California, Los Angeles, Los Angeles, CA, (4)Autism Discovery Institute at Rady Children's Hospital – San Diego, San Diego, CA

12:10 Discussant

Tech Demo Session
142 - Innovative Technology Demonstrations
10:00 AM - 1:30 PM - Hall A

225 142.225 Using Tablet-Based Gameplay for the Identification of Autism-Related Movement Patterns **A. Anzulewicz**[1], D. Czajak[2], J. T. Delafield-Butt[3], P. Jarmolkowicz[2], M. Mnich[2], A. W. Paciorek[4], K. Sobota[2] and D. A. Zaremba[2,3,5], (1)Psychology, Jagiellonian University, Krakow, Poland, (2)Harimata, Krakow, Poland, (3)University of Strathclyde, Glasgow, United Kingdom, (4)Institute of Modern Languages, Pedagogical University of Krakow, Krakow, Poland, (5)Jagiellonian University, Krakow, Poland

226 142.226 The Effects of Video-Modeling on the Oral Hygiene of Children with Autism: A Promising Paradigm **M. Mademtzi**[1], B. Popple[2], C. A. Wall[1], L. Flink[3], J. Dikansky[4], D. Do[4] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)White Oak Pediatric Dentistry, Newnan, GA, (3)Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia, PA, (4)Yale New Haven Hospital, New Haven, CT

227 142.227 Development of a Mobile Application for Early Literacy and Language Intervention in Children with Autism Spectrum Disorder **N. J. Rasche**[1] and O. Wendt[2], (1)Computer Graphics Technology, Purdue University, West Lafayette, IN, (2)Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN

228 142.228 Using an Ipad Application to Prepare Children with ASD for Research MRI N. L. Johnson[1], N. Salowitz[2], M. Van Abel[3], A. V. Van Hecke[3], S. I. Ahamed[3] and R. A. Scheidt[4], (1)College of Nursing, Marquette University, New Berlin, WI, (2)Marquette University, Franklin, WI, (3)Marquette University, Milwaukee, WI, (4)Marquette Univeristy, Milwaukee, WI

229 142.229 Evaluating the Usability of a Social Skills Training App for Children with ASD B. G. Kinsella[1], A. Kushki[2] and S. Chow[1], (1)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Bloorview Research Institute, Toronto, ON, Canada

230 ▸ 142.230 An Investigation into the Effectiveness of an Arabic AAC Solution for Minimally Verbal Children with Autism M. Habash[1], F. Alnemary[2] and F. Alnemary[2], (1)A Global Voice for Autism, Ottawa, ON, Canada, (2)UCLA, Los Angeles, CA

231 ▸ 142.231 An Investigation into an Internet of Things (IoT) Framework for Improving the Quality of Life of People with Autism in Low Income Countries M. Habash, A Global Voice for Autism, Ottawa, ON, Canada

232 142.232 App for Autism: Identifying Trends in the App Market L. Hart[1], S. Valencia[2], M. Mademtzi[3] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2) Yale University School of Medicine, New Haven, CT, (3)University of Birmingham, Bimringham, United Kingdom

233 142.233 Using Technology to Promote the Implementation of Evidence-Based Practices in the United States and Internationally for Learners with ASD A. Sam[1], A. W. Cox[2], O. Alhaqbani[3] and S. L. Odom[4], (1)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, Carrboro, NC, (2)Frank Porter Graham Institute, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)Center For Autism Research, Riyadh, Saudi Arabia, (4)University of North Carolina, Chapel Hill, NC

234 142.234 User-Centered Design for Research Data Management Software: Evaluating and Improving Designs By Testing with Users (Early and Often) H. Agnew[1], J. A. Salim[2], T. Schantz[1] and L. Rozenblit[1], (1) Prometheus Research, LLC, New Haven, CT, (2)Marcus Autism Center, Atlanta, GA

235 142.235 Stakeholder Perspectives on the Utility of the Web-Based Occupational Resource Kit (W.O.R.K.): An Interactive Curriculum to Support Students with Mild Intellectual Disabilities with and without ASD in the Successful Transitioning to Employment K. Adkisson, D. Childress, K. Melillo, C. Hehman, I. Coleman, T. Phillips and J. Chin, 3C Institute, Durham, NC

236 142.236 Development of the Postsecondary Resilience Education Program (PREP): An Interactive, Web-Based College Readiness and Resilience Skills Building Program for Students with High Functioning Autism Spectrum Disorder D. Childress, K. Melillo, K. Adkisson, A. Sam, I. Eremeev, B. Cassell, P. Allen and S. Rothman, 3C Institute, Durham, NC

237 142.237 Using the Language Environmental Analysis System (LENA) to Evaluate a Community Based Pivotal Response Treatment (PRT) Parent Coaching Model for Autism Spectrum Disorder M. Stolte and V. Smith, University of Alberta, Edmonton, AB, Canada

238 142.238 Inhome: A Multimodal Bio-Behavioral Data Capture System for Autism Research I. Riobo[1], O. O. Wilder-Smith[2], J. C. Sullivan[2], C. Cumpanasoiu[2], C. Kim[1], Y. Liu[1], G. D. Abowd[1], J. M. Rehg[1] and M. S. Goodwin[2], (1)Georgia Institute of Technology, Atlanta, GA, (2)Northeastern University, Boston, MA

239 142.239 Assessment of the Olfactory Trait in Children with Autism Spectrum Disorders Using an Olfactory Software Application H. Kumazaki[1,2], T. Muramatsu[2], M. Miyao[3], T. X. Fujisawa[1], H. Kosaka[1], A. Tomoda[1] and M. Mimura[2], (1)University of Fukui Research Center for Child Development, Yoshida-gun, Japan, (2)Keio University, Tokyo, Japan, (3) DONGURI clinic for children with developmental disorders, Tokyo, Japan

240 142.240 Robot-Mediated Interventions for Social Anxiety in Individuals with Autism Spectrum Disorder H. Kumazaki[1,2], Y. Yoshikawa[3], Y. Matsumoto[4], M. Miyao[5], H. Ishiguro[3], T. Muramatsu[2] and M. Mimura[2], (1)University of Fukui Research Center for Child Development, Yoshida-gun, Japan, (2)Keio University, Tokyo, Japan, (3)Osaka University / JST ERATO, Osaka, Japan, (4)National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, (5)DONGURI clinic for children with developmental disorders, Tokyo, Japan

241 142.241 Advantages of Robot-Assisted Counseling: Can Caregivers Better Address the Concerns of Children with Autistic Spectrum Disorders Via a Small Humanoid Robot? J. Shimaya[1], Y. Yoshikawa[1], M. Miyao[2], Y. Matsumoto[3], H. Kumazaki[4], M. Nakano[5] and H. Ishiguro[1], (1)Osaka University / JST ERATO, Osaka, Japan, (2)DONGURI clinic for children with developmental disorders, Tokyo, Japan, (3)National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, (4)University of Fukui Research Center for Child Development, Yoshida-gun, Japan, (5)National Center for Child Health and Development, Tokyo, Japan

242 142.242 Robot-Led Intervention for Improving Emotional Cognition in Children with ASD S. A. Koch[1], J. B. Lebersfeld[1], C. D. Clesi[1], C. E. Stevens[1], M. E. McNew[1,2], A. G. Parker[1], F. J. Biasini[1] and M. I. Hopkins[1], (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)Psychology, Florida International University, Miami, FL

243 ▸ 142.243 Emotiplay - a Virtual Environment for Emotion Recognition and Expression Learning S. Fridenson-Hayo[1], S. Berggren[2], O. Atzmon[3], A. Lassalle[4], N. Meir-Goren[3], S. Tal[1], S. Newman[3], S. Baron-Cohen[4], S. Bolte[2] and O. Golan[1], (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden, (3)Compedia, Ramat-Gan, Israel, (4)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

244 142.244 3-D Social Attention Training for Young Children with ASD Z. Zheng, Z. Warren, H. Zhao, Q. Fu, A. S. Weitlauf, A. Swanson and N. Sarkar, Vanderbilt University, Nashville, TN

245 142.245 The Potential of Collaborative Virtual Environments for ASD Intervention L. Zhang, H. Zhao, Q. Fu, A. Swanson, A. S. Weitlauf, Z. Warren and N. Sarkar, Vanderbilt University, Nashville, TN

246 142.246 Customizable, Interactive Toy Platform to Enable Motivation-Driven Cognitive and Physical Development in Children Diagnosed with Autism or Developmental Disorders K. T. Johnson[1] and R. W. Picard[2], (1)MIT Media Lab, Massachusetts Institute of Technology, Cambridge, MA, (2)Massachusetts Institute of Technology, Cambridge, MA

247 142.247 Technologies for Tactile Multi-Sensory Environments S. Ahlquist, University of Michigan, Ann Arbor, MI

248 142.248 The Sensory Toy Box: An Interactive Game-Based Technology As an Assessment Tool S. Valencia[1], P. Perez Fuster[2], M. Mademtzi[1], L. Hart[1] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Autism Research Group. Robotics Institute, University of Valencia, Valencia, Spain

Poster Session
143 - Animal Models
11:30 AM - 1:30 PM - Hall A

1 143.001 A Novel Arhgef6 Mouse Model Shows Focal Volume Loss in the Hippocampus and Deep Cerebellar Nuclei J. Ellegood[1], R. Yuen[2], A. Creighton[3], L. Spencer Noakes[1], B. J. Nieman[1], L. Nutter[3], S. W. Scherer[2] and J. P. Lerch[1], (1)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (2)Centre for Applied Genomics (TCAG), Hospital for Sick Children, Toronto, ON, Canada, (3)Canadian Mouse Mutant Repository, Toronto Centre for Phenogenomics, Toronto, ON, Canada

2 143.002 Abnormal Contrast Responses in a Fruit-Fly Model of Autism G. Vilidaite[1], D. H. Baker[2], A. R. Wade[3] and C. J. Elliott[4], (1) University of York, York, England, United Kingdom, (2)Department of Psychology, University of York, York, United Kingdom, (3)Department of Psychology, The University of York, York, United Kingdom, (4)Department of Biology, The University of York, York, United Kingdom

3 143.003 Autism Mouse Model Exhibits Dysregulated Norepinephrine Innervation and Neural Activity in the Limbic System C. C. Peng[1,2], J. Lunden[1], M. Genestine[3], V. Mirabella[4], S. Prem[5] and E. DiCicco-Bloom[6], (1)Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, (2)Rutgers University, New Brunswick, NJ, (3)UMDNJ, Piscataway, NJ, (4)Child Health institute of New Jersey, New Brunswick, NJ, (5) Neuroscience, Graduate School of Biomedical Sciences, Piscataway, NJ, (6)Rutgers University - Robert Wood Johnson Medical School, Piscataway, NJ

4 143.004 Autism-Associated Gene Engrailed-2 Plays a Cell Autonomous Role in Regulating Proliferation and Cell Death in Hippocampal Neural Stem Cells in Vitro M. Durens, S. Chung and E. DiCicco-Bloom, Rutgers University - Robert Wood Johnson Medical School, Piscataway, NJ

5 143.005 Bioinformatics Analysis of Phenotypic Data of ASD Rodent Models I. Das, M. A. Estevez and S. B. Basu, MindSpec, Inc., McLean, VA

6 143.006 Characterization of Four ASD Mouse Models Reveals Common Behavioral Phenotypes and Transcriptional Networks in the Striatum O. Oron[1], S. Shohat[2], E. Reuveni[1], S. Shifman[2] and E. Elliott[1], (1)Faculty of Medicine, Bar Ilan University, Safed, Israel, (2)Hebrew University of Jerusalem, Jerusalem, Israel

7 143.007 Conserved GABA/GAMMA Coupling Is Seen in a Translational Preclinical Model That Recapitulate a Key Aspect of ASD R. G. Port[1], G. C. Carlson[2] and T. P. Roberts[3], (1)Neuroscience Graduate Group, Biomedical Graduate Studies, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, (2)Psychiatry, University of Pennsylvania, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA

8 143.008 Effects of Pargyline and Para-Chlorophenylalanine on Mouse Social Behavior G. G. Gould[1], N. Witt[2], J. Allen[2] and A. Sanchez[3], (1)The University of Texas Health Science Center at San Antonio, San Antonio, TX, (2)Biology, University of Texas at San Antonio, San Antonio, TX, (3)Biology, St. Mary's University, San Antonio, TX

9 143.009 Efficacy of Risperidone in an Insulin-Resistant Mouse Model of Hyperactivity and Deficient Sociability V. R. Garbarino, UTHSCSA, San Antonio, TX

10 143.010 Estrogen Receptor Î² Protects Against ASD-like Behavior in Mice A. M. Crider, Georgia Regents University, Augusta, GA

11 143.011 Exposure of Juvenile Mice to High-Dose Acetaminophen Confers Elevated Serum Cytokine Levels and Sociability Impairments in Adulthood M. T. Edwards[1], G. G. Gould[1], S. T. Schultz[1] and R. Alvarez[2], (1)Physiology, The University of Texas Health Science Center at San Antonio, San Antonio, TX, (2)Naval Medical Research Unit, JBSA Fort Sam Houston, TX

12 143.012 Gestational Valproic Acid Alters Polyamine Metabolism in the Mouse Placenta: Implications for Autism Spectrum Disorders Causation A. Sokoloff[1] and S. M. Mimche[2], (1)Emory University Physiology, Atlanta, GA, (2)Physiology, Emory Uiversity, Atlanta, GA

13 143.013 Modulating Excitation: Inhibition Imbalance in ASD As a Means of 'Fractionating the Spectrum›; An In Vivo, Clinical [1H]-MRS Assay L. A. Ajram[1], J. Horder[2], R. H. Wichers[3], S. C. Williams[4], R. A. Edden[5], C. M. Murphy[3], D. G. Murphy[3] and G. M. McAlonan[6], (1)Institute of Psychiatry, London, United Kingdom, (2)Institute of Psychiatry, King's College London, London, England, United Kingdom of Great Britain and Northern Ireland, (3)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (4)Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Johns Hopkins University School of Medicine, Baltimore, MD, (6)Department of Forensic and Neurodevelopmental Science, IoPPN, KCL, London, United Kingdom

14 143.014 Neurobehavioral Abnormalities Relevant to Autism Spectrum Disorders Are Detected in Mice with Selective Expression of Mutant DISC1 in Purkinje Cells of Anterior Cerebellum 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)Departments of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, MD, (2)P.K.Anokhin Institute of Normal Physiology, Moscow, Russia, (3) Departments 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

15 143.015 Peri-Conceptionnal Exposure to Sulphonamide Antibiotic Increases Anxiety and Reduces Social Interactions in Wistar Rat Offpring S. Degroote, D. Hunting and L. Takser, Université de Sherbrooke, Sherbrooke, QC, Canada

16 143.016 Resveratrol Prevents Behavioral Changes in the Valproic Acid-Induced Animal Model of Autism, Modulating Excitation/Inhibition Balance in Mpfc and Hippocampus G. Della Flora Nunes[1,2], M. F. Dutra[1,3], V. Bambini-Junior[1,4], W. S. Nunes[1,3], M. M. Hirsch[1,3], G. Z. Staevie[1,3], G. B. Negrini[1,3], J. S. Terra[1,3], G. B. Schwingel[1,3], T. Quadros[1,3], T. Gonchoroski[1,3], R. Riesgo[1,5] and C. Gottfried[1,3], (1)Translational Research Group in Autism Spectrum Disorder (GETTEA), Porto Alegre, Brazil, (2)SUNY at Buffalo, Buffalo, NY, (3)Research Group in Neuroglial Plasticity, Porto Alegre, Brazil, (4)Oswaldo Cruz Institute, Oswaldo Cruz Foundation, Laboratory on Thymus Research, Rio de Janeiro, Brazil, (5)Child Neurology Unit, Clinical Hospital of Porto Alegre (HCPA), Porto Alegre, Brazil

17 143.017 Resveratrol Prevents Sensory Deficits in Animal Model of Autism Induced By Prenatal Exposure to VPA M. F. Dutra[1,2], G. Della Flora Nunes[1,2], M. M. Hirsch[1,2], W. S. Nunes[1,2], G. Z. Staevie[1,2], G. B. Negrini[1,2], G. B. Schwingel[1,2], J. S. Terra[1,2], R. S. Riesgo[2,3], C. Gottfried[1,2] and V. Bambini-Junior[2,4], (1)Research Group in Neuroglial Plasticity, Porto Alegre, Brazil, (2)Translational Research Group in Autism Spectrum Disorder (GETTEA), Porto Alegre, Brazil, (3)Neurology Unit, Clinical Hospital of Porto Alegre, Porto Alegre, Brazil, (4)Oswaldo Cruz Institute, Oswaldo Cruz Foundation, Laboratory on Thymus Research, Rio de Janeiro, Brazil

18 143.018 Sulforaphane Improved Social Communication Impairment in Valproate Induced Autistic Mice with up-Regulation of BDNF and NR2B in Cerebral Cortex K. F. Chau, W. Yang, A. Y. T. Choi, W. N. Leung and C. W. Chan, School of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong

19 143.019 Targeting Glia with N-Acetylcysteine Modulates Excitation/Inhibition Balance, Neural Activity and Rescues Behavioural Deficits in BTBR Mice A. Durieux[1], M. M. Petrinovic[2], M. D. Saxe[2], M. von Kienlin[3], D. G. Murphy[4], B. Künnecke[5] and G. M. McAlonan[6], (1)Kings College London, London, United Kingdom, (2)F. Hoffmann-La Roche, Basel, Switzerland, (3)2Roche Pharma Research & Early Development, Neuroscience, Roche Innovation Center, Basel, Switzerland, (4)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Neuroscience, Roche Pharma Research & Early Development, Neuroscience, Roche Innovation Center, Basel, Switzerland, (6) Department of Forensic and Neurodevelopmental Science, IoPPN, KCL, London, United Kingdom

20 143.020 The Contribution of Reduced TrkB Signaling to Autistic-like Behaviour in the Valproic Acid-Induced Mouse Model C. Nicolini[1], V. Aksenov[2], E. Rosa[1], C. D. Rollo[2], J. A. Foster[1], F. M. Longo[3] and M. Fahnestock[1], (1)Dept. of Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada, (2)Dept. of Biology, McMaster University, Hamilton, ON, Canada, (3)Dept. of Neurology & Neurological Sciences, Stanford University, Stanford, CA

21 143.021 Touchscreen Learning in the Shank3B Mutant Mouse Model of Phelan-Mcdermid Syndrome and Autism Spectrum Disorder N. A. Copping, G. M. Foley, E. L. Berg, B. L. Onaga, J. L. Silverman and M. Yang, Psychiatry and Behavioral Sciences, MIND Institute, Sacramento, CA

22 143.022 Transgenerational Transmission and Modification of Behavioral Deficits Induced By Prenatal Immune Activation U. Meyer[1,2], U. Weber-Stadlbauer[1] and J. Richetto[1], (1)Institute of Pharmacology and Toxicology, University of Zurich-Vetsuisse, Zurich, Switzerland, (2) Physiology and Behavior Laboratory, ETH Zurich, Schwerzenbach, Switzerland

Poster Session
144 - Genetics
11:30 AM - 1:30 PM - Hall A

23 144.023 22q11.2 Duplication Syndrome: Assessment of Autism Spectrum Disorder, Other Neuropsychiatric Symptoms, and Adaptive Skills C. C. Clements[1], L. M. DePolo[2], A. de Marchena[2], D. M. McDonald-McGinn[3], E. H. Zackai[4], B. Emanuel[3], R. T. Schultz[5], J. Miller[2] and T. L. Wegner[2,6], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6) Pediatrics, Seattle Children's Hospital, Seattle, Seattle, PA

24 144.024 A Comparison of Polygenic Contribution to Autism Spectrum Disorder Using Common, Rare and Copy Number Variants K. Benke[1], B. Sheppard[2], K. M. Bakulski[3], A. B. Singer[3], C. Shu[4], C. Ladd-Acosta[5], C. J. Newschaffer[6] and M. D. Fallin[7], (1)Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (2)Johns Hopkins School of Public Health, Baltimore, MD, (3)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (5)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6) A.J. Drexel Autism Institute, Philadelphia, PA, (7)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

25 144.025 A SHANK3 Point Mutation with Phelan-Mcdermid Phenotype, Notably without Autism Spectrum Disorder or Intellectual Deficits C. Samango-Sprouse[1,2], P. Lawson[1] and O. Goker-Alpan[3], (1) The Focus Foundation, Crofton, MD, (2)George Washington University, Washington, DC, (3)Genetics, O and O Alpan, LLC, Fairfax, VA

26 144.026 A System for Gene Ranking through Integrative Variant Annotation in Autism Spectrum Disorders E. Larsen[1], I. Menashe[2], M. N. Ziats[3], W. Pereanu[1] and S. B. Basu[4], (1)MindSpec Inc., McLean, VA, (2) Ben-Gurion University of the Negev, Beer Sheva, Israel, (3)Baylor College of Medicine, Houston, TX, (4)MindSpec, Inc., McLean, VA

27 144.027 Association Between Copy-Number Variations and Savant Skills Among People with Autism Spectrum Disorder H. Rosenthal and I. Menashe, Ben-Gurion University of the Negev, Beer Sheva, Israel

28 144.028 Association of Dysfunctional Polymorphisms in Acetylserotonin O-Methyltransferase with Insomnia in ASD O. J. Veatch, Z. Warren, J. S. Sutcliffe, M. H. Potter, A. L. Palmer and B. A. Malow, Vanderbilt University, Nashville, TN

29 144.029 Autism Pathway Network Analyses Identify Overlaps with Other Disease Groups, Involve Many Functions and Converge upon MAPK and Calcium Signaling Y. Wen[1,2,3], M. Alshikho[1,3] and M. R. Herbert[1,2,3], (1)Neurology (Pediatric), Harvard Medical School, Boston, MA, (2)Higher Synthesis Foundation, Cambridge, MA, (3)Neurology, Massachusetts General Hospital, Charlestown, MA

30 144.030 Autism Spectrum Symptomatology in Children with 7q11.23 Duplication Syndrome B. P. Klein-Tasman[1] and C. B. Mervis[2], (1)Department of Psychology, University of Wisconsin - Milwaukee, Milwaukee, WI, (2)Dept. of Psychological and Brain Sciences, University of Louisville, Louisville, KY

31 144.031 Blood-Based Transcriptomic Mega-Analyses Comparing Individuals with Autism Spectrum Disorder and Unaffected Comparison Subjects D. S. Tylee, J. L. Hess, T. P. Quinn, R. Barve and S. J. Glatt, SUNY Upstate Medical University, Syracuse, NY

32 144.032 Brain Structure and Quantitative Trait Shifts in 16p11.2 De Novo Deletions Relative to Non-Carrier Siblings A. M. Michael[1,2], D. W. Evans[3], A. Moreno De Luca[1,4], C. C. Dougherty[1] and G. J. Moore[1,2,4], (1) Autism and Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (2)Institute of Advanced Application, Geisinger Health System, Danville, PA, (3)Department of Psychology, Bucknell University, Lewisburg, PA, (4)Radiology, Geisinger Health System, Danville, PA

33 144.033 Building the Open Information Commons for Autism Research and Discovery: The Hartwell Autism Research and Technology Initiative (iHART) J. Y. Jung[1], L. Perez-Cano[2], M. Duda[1], D. Kashef-Haghighi[1], J. Kosmicki[1], J. K. Lowe[2], E. K. Ruzzo[2], S. Sharma[1], D. H. Geschwind[2] and D. Wall[1], (1)Department of Pediatrics, Stanford University, Stanford, CA, (2)Department of Neurology, UCLA, Los Angeles, CA

34 144.034 CNV Analysis and Exome Sequencing in Japanese Autism Spectrum Disorder Subjects K. Nakamura[1], I. Thanseem[2], M. Tsujii[3] and N. Matsumoto[4], (1)Hirosaki University Graduate School of Medicine, Aomori, Japan, (2)Hamamatsu University School of Medicine, Hamamatsu, Japan, (3)Chukyo University, Toyota, Japan, (4)Yokohama City University Graduate School of Medicine, Yokohama, Japan

35 ▸ 144.035 Chinese Control Sample Collection for Genetic Studies of Autism Spectrum Disorder S. An[1], W. Zhou[2], Q. Wu[2], J. Zhang[1], C. Yang[1], H. Zhao[1], B. Zhao[1], S. Wang[1], X. Zheng[1], X. Yang[2], J. Li[2], H. Gao[2], Y. Dou[2], L. Yan[2], M. Wang[2], Y. Ye[2] and L. Wei[1,2], (1)National Institute of Biological Sciences, Beijing, Beijing, China, (2)Center for Bioinformatics, School of Life Sciences, Peking University, Beijing, China

36 144.036 Clinical Characterisation of Neurexin1 Deletions and Their Role in Neurodevelopmental Disorders J. E. Fitzgerald[1], J. Hall[2], M. van den Bree[2], R. Delorme[3], T. Werge[4], A. C. Tabet[5,6], L. T. Duong[7], H. Peeters[8], I. Noens[9], N. Cosemans[8], S. Esteba[10], M. Al-Shehhi[11], R. Novell[10], S. Lynch[11], A. Green[12], S. Shen[13] and L. Gallagher[14,15], (1)Trinity College Dublin, Dublin, Ireland, (2)Cardiff University, Cardiff, Wales, (3) Child and Adolescent Psychiatry, Robert Debre Hospital, Paris, France, (4)University of Copenhagen, Copenhagen, Denmark, (5)Robert Debre Hospital, Paris, France, (6)GHFC unit, Pasteur Institute, Paris, France, (7) Forensic Psychiatry of Zeeland, Mental health of the Region of Zeeland, Slagelse, Denmark, (8)Center for Human Genetics, KU Leuven, Leuven, Belgium, (9)Parenting and Special Education Research Unit, KU Leuven, Leuven, Belgium, (10)Institute for Health Assistance (IAS) and Julia Martin Park Hospital, Girona, Spain, (11)National Centre for Medical Genetics, Dublin, Ireland, (12)Our Lady's Children's Hospital, Crumlin, National Centre for Medical Genetics, Dublin, Ireland, (13)REMEDI, National College of Ireland Galway, Galway, Ireland, (14)Psychiatry, Trinity College Dublin, Dublin, Ireland, (15)Linndara Child and Adolescent Mental Health Services, Dublin, Ireland

37 144.037 Comprehensive Autism Spectrum Screening for Infants (CASS-i): A Screening Tool for Autism Spectrum Disorder (ASD) and Developmental Learning Delay (DLD) and the Incidence of Copy Number Variance (CNV) C. Samango-Sprouse[1,2,3], C. Keen[1], K. Haskell[1], F. Aliabadi[4], C. Parmele[5] and A. Gropman[6], (1)The Focus Foundation, Crofton, MD, (2)George Washington University, Washington, DC, (3) Molecular Genetics, Florida International University, Miami, FL, (4)The Pediatric Group, Crofton, MD, (5)Annapolis Pediatrics, Annapolis, MD, (6) Neurodevelopmental Disabilities and Neurogenetics, Children's National Medical Center, Washington, DC

38 144.038 Effect of Autism Risk CNVs on Autistic and Neuropsychiatric Traits in a Population Based Adolescent Sample E. Loth[1], R. Toro[2], J. B. Poline[3], G. Huguet[4], G. Schumann[5] and T. Bourgeron[6], (1)Institute of Psychiatry, King's College London, London, England, United Kingdom, (2)Institut Pasteur, Paris, France, (3) Berkeley University, Berkeley, CA, (4)Génétique médicale, CHU St Justine, Montréal, QC, Canada, (5)SGDP Centre, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (6)Institute Pasteur, Paris, France

39 144.039 Familial Contribution to Clinical Variability in Social Responsiveness for Individuals with Disruptive Mutations to CHD8 and CHD8 Target Genes R. K. Earl, C. M. Hudac, J. Gerdts, E. E. Eichler and R. Bernier, University of Washington, Seattle, WA

40 144.040 Genome-Wide ASD Phenotype-Genotype Association Study in Two Large Data Sets A. Yousaf[1], R. Waltes[1], D. Haslinger[1], S. Lindlar[1], S. M. Klauck[2], E. Duketis[1], M. Sachse[1], A. Voran[3], M. Biscaldi[4], M. Schulte-Rüther[5], S. Kupferschmid[6], S. Cichon[7,8,9,10], M. Noethen[7], J. Ackermann[11], I. Koch[11], C. M. Freitag[1] and A. Chiocchetti[1], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Johann Wolfgang Goethe-University Frankfurt/Main, Frankfurt, Germany, (2)Cancer Genome Research Group, German Cancer Research Center (DKFZ), Heidelberg, Germany, (3)Department of Child and Adolescent Psychiatry, Saarland University Hospital, Homburg, Homburg, Germany, (4)Department of Child and Adolescent Psychiatry, University Hospital Freiburg, Freiburg, Germany, (5)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (6)University Hospital of Child and Adolescent Psychiatry, University of Bern, Bern, Switzerland, (7) Institute of Human Genetics, University of Bonn, Bonn, Germany, (8) Department of Genomics, University of Bonn, Bonn, Germany, (9)Division of Medical Genetics, Department of Biomedicine, University of Basel, Basel, Switzerland, (10)Institute of Neuroscience and Medicine (INM-1), Research Center Juelich, Juelich, Germany, (11)Molecular Bioinformatics, Institute of Computer Science, Johann Wolfgang Goethe-University Frankfurt am Main, Frankfurt, Germany

41 144.041 Genotype-Phenotype Correlations of Phelan-Mcdermid Syndrome Based on Neurodevelopmental Gene Expression Patterns of the 22q13 Region L. P. Grosvenor[1], M. N. Ziats[2] and O. M. Rennert[3], (1) NIMH, NIH, Washington, DC, (2)NICHD, NIH, Bethesda, MD, (3)NICHD, NIH, Bthesda, MD

42 144.042 Glutamatergic Signalling and Autism: A Family Based Association Study on the Glutamatergic Neurotransmitter System A. Yousaf[1], H. S. Bour[1], D. Haslinger[1], E. Duketis[1], T. Jarczok[1], M. Sachse[1], A. Voran[2], M. Biscaldi[3], S. Kupferschmid[4], M. Schulte-Rüther[5], F. Degenhardt[6,7], S. Herms[6,7,8], S. Cichon[6,7,8,9], I. Koch[10], R. J. Anney[11,12], A. Chiocchetti[1] and C. M. Freitag[1], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Johann Wolfgang Goethe-University Frankfurt/Main, Frankfurt, Germany, (2)Department of Child and Adolescent Psychiatry, Saarland University Hospital, Homburg, Homburg, Germany, (3)Department of Child and Adolescent Psychiatry, University Hospital Freiburg, Freiburg, Germany, (4)University Hospital of Child and Adolescent Psychiatry, University of Bern, Bern, Switzerland, (5)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (6)Institute of Human Genetics, University of Bonn, Bonn, Germany, (7)Department of Genomics, University of Bonn, Bonn, Germany, (8) Division of Medical Genetics, Department of Biomedicine, University of Basel, Basel, Switzerland, (9)Institute of Neuroscience and Medicine (INM-1), Research Center Juelich, Juelich, Germany, (10)Molecular Bioinformatics, Institute of Computer Science, Johann Wolfgang Goethe-University Frankfurt am Main, Frankfurt, Germany, (11)Trinity College Dublin, Dublin, Ireland, (12)Institute of Psychological Medicine and Clinical Neurosciences, Cardiff University,, Cardiff, United Kingdom

43 144.043 Identification of Convergent Molecular Pathways during the Development of Neurons Derived from Patients with Idiopathic Autism Using Rnaseq Analysis D. Dykxhoorn[1], B. A. DeRosa[2], M. A. Pericak-Vance[3], K. Belle[1], J. M. Vance[4], C. Garcia-Serje[1], D. Van Booven[5], M. L. Cuccaro[3] and H. N. Cukier[5], (1)University of Miami Miller School of Medicine, Miami, FL, (2)The Hussman Instute for Human Genomics, Miami, FL, (3)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL, (4)Hussman Institute for Human Genomics, Miami, FL, (5)John P Hussman Institute for Human Genomics, University of Miami, Miami, FL

44 144.044 Increased Frequency of TSC2 Missense Mutations in Non-Syndromic Autism L. Kalsner[1], B. Manwani[2], J. Twachtman-Bassett[3], E. Cornell[4], L. Derynioski[5], A. Milanese[6], T. Dumont-Mathieu[7], C. Stanley[8] and S. Chamberlain[9], (1)Connecticut Children's Medical Center, Hartford, CT, (2)Neurology, University of Connecticut Health Center, Farmington, CT, (3)Connecticut Children's Medical Center, Colchester, CT, (4) Research, Connecticut Children's Medical Center, East Hartford, CT, (5) Neurology, Connecticut Children's Medical Center, Farmington, CT, (6) Divison of Developmental and Rehabilitation Medicine, Department of Pediatrics, Connecticut Children's Medical Center, Farmington, CT, (7) Division of Developmental and Rehabilitation Medicine, Department of Pediatrics, Connecticut Children's Medical Center, Farmington, CT, (8) Courtagen Life Sciences Inc, woburn, MA, (9)Genetics and Genome Sciences, University of Connecticut Health Center, Farmington, CT

45 144.045 Integrating Expression Quantitative Brain Loci in ASD GWAS Analyses C. Shu[1], C. Ladd-Acosta[2], A. Jaffe[3], J. L. Daniels[4], C. J. Newschaffer[5], A. M. Reynolds[6], D. E. Schendel[7], L. A. Schieve[8] and M. D. Fallin[9], (1)Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Lieber Institute for Brain Development, Baltimore, MD, (4)University of North Carolina, Chapel Hill, NC, (5)A.J. Drexel Autism Institute, Philadelphia, PA, (6)University of Colorado - Denver, Aurora, CO, (7)Aarhus University, Aarhus, Denmark, (8)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (9) Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

46 144.046 Maternally Acting Gene Alleles Contribute to Autism W. G. Johnson[1], E. S. Stenroos[2] and S. Buyske[3], (1)661 Hoes Lane, Rutgers University, Piscataway, NJ, (2)Neurology, Rutgers-RWJMS, Piscataway, NJ, (3)Rutgers University, Piscataway, NJ

47 144.047 Meiotic DNA Repair and Epigenetic Remodeling of the X and Y Chromosomes Could Contribute to the ‹gender Bias› in Sex-Linked Autism Spectrum Disorders J. L. Hopkins, M. Jamabo and P. W. Jordan, Biochemistry and Molecular Biology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

48 144.048 Mssng - Combining Open Science and 10,000 Whole Genome Sequences to Speed the Delivery of New Understandings in Autism M. T. Pletcher, Autism Speaks, Boston, MA

49 144.049 Multivariate Analysis of Insomnia-Related Behaviors Profiled in the Simon›s Simplex Collection O. J. Veatch, J. S. Sutcliffe, Z. Warren, M. H. Potter and B. A. Malow, Vanderbilt University, Nashville, TN

50 144.050 NLGN2 Haploinsufficiency Causes a Distinctive Neurobehavioral Phenotype Characterized By Anxiety, Autism, Intellectual Disability, and Obesity M. Shinawi[1], D. Baldridge[2], G. Douglas[3], C. Garriga[4] and M. T. Cho[3], (1)Pediatrics, Washington University School of Medicine, St. Louis, MO, (2)Washington University School of Medicine, St. Louis, MO, (3)GeneDx, Gaithersburg, MD, (4)St. Louis Children's Hospital, St. Louis, MO

51 144.051 Placenta Methylation and Autism Risk in the Early Autism Risk Longitudinal Investigation (EARLI) S. V. Andrews[1], K. M. Bakulski[1], J. Feinberg[2], R. Tryggvadottir[3], K. D. Hansen[4], S. C. Brown[5], L. A. Croen[6], I. Hertz-Picciotto[7], C. Ladd-Acosta[8], C. J. Newschaffer[9], A. P. Feinberg[2] and M. D. Fallin[10], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Johns Hopkins University, Baltimore, MD, (3)Johns Hopkins University, Center for Epigenetics, Baltimore, MD, (4)Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (5)Mental Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, (6)Division of Research, Kaiser Permanente, Oakland, CA, (7)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (8) Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (9)A.J. Drexel Autism Institute, Philadelphia, PA, (10)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

52 144.052 Prevalence of Prenatal and Perinatal Birth Complications in Individuals with and without ASD-Associated Copy Number Variants J. Han[1], A. Wolken[2], S. Barber[1] and R. Bernier[1], (1)University of Washington, Seattle, WA, (2)Seattle Children's Hospital, University of Washington, Seattle, WA

53 144.053 Quantification of FMRP in Human and Mouse Tissues By Capture Immunoassays W. T. Brown[1], T. Adayev[2], R. Kascsak[2], R. Kascsak[3], C. Dobkin[4], S. Nolin[2] and G. LaFauci[2], (1)Human Genetics, Institute for Basic Research in DD, Staten Island, NY, (2)Institute for Basic Research in DD, Staten Island, NY, (3)New York State Institute for Basic Research, Staten Island, NY, (4)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY

54 144.054 Risk Pathways to Autistic Traits and Autism Spectrum Disorder in Tuberous Sclerosis Complex (TSC) F. S. McEwen[1], C. R. Tye[1], H. Liang[1,2], E. D. Barker[3], E. L. Woodhouse[4], L. Underwood[1], F. Sheerin[5], N. Higgins[6], M. Clifford[1], .. Tuberous Sclerosis 2000 Study Group[1], J. R. Yates[7,8] and P. F. Bolton[1,9], (1)Child & Adolescent Psychiatry / Social, Genetic & Developmental Psychiatry Centre, King's College London, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (2)Southwark Child & Adolescent Neurodevelopmental Service, South London & Maudsley NHS Foundation Trust, London, United Kingdom, (3)Department of Psychology, King's College London, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (4)Forensic & Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (5)Department of Neuroradiology, Oxford University Hospitals NHS Trust, Oxford, United Kingdom, (6)Department of Radiology, Addenbrooke's Hospital, Cambridge, United Kingdom, (7) Department of Medical Genetics, University of Cambridge, Cambridge, United Kingdom, (8)East Anglian Medical Genetics Service, Addenbrooke's Hospital, Cambridge, United Kingdom, (9)South London & Maudsley NHS Foundation Trust, London, United Kingdom

55 144.055 Sexual Dimorphism of Regulatory Small Non-Coding RNAs in the Superior Temporal Gyrus Brain Region of Autism Spectrum Disorders: A Pilot Study B. Stamova[1], B. P. Ander[1], F. R. Sharp[1] and C. M. Schumann[2], (1)Department of Neurology, University of California, Davis, School of Medicine, Sacramento, CA, (2)UC Davis MIND Institute, Sacramento, CA

56 144.056 Social Visual Engagement—a Putative Autism Endophenotype—Exhibits Marked Variation and Striking MZ Twin Concordance in Typical Infants J. N. Constantino[1], A. Klin[2], A. Glowinski[3], S. Kennon-McGill[3], C. Weichselbaum[3] and W. Jones[2], (1)Washington University School of Medicine, Saint Louis, MO, (2)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (3)Washington University in St. Louis, St. Louis, MO

57 144.057 Temporal Gene Expression Profiles and Behavioral Regression in Children with ASD with Postsynaptic Density Gene Disruptions S. Trinh[1], R. P. Goin-Kochel[2] and R. Bernier[1], (1)University of Washington, Seattle, WA, (2)Baylor College of Medicine, Houston, TX

58 144.058 The Autism-Associated Long Noncoding RNA MSNP1AS Regulates a Network of Genes Involved in Neuronal Process Stability J. DeWitt[1], N. A. Grepo[2], B. Wilkinson[1], K. Morris[3], J. A. Knowles[1] and D. B. Campbell[1], (1)University of Southern California, Los Angeles, CA, (2)USC, LOS ANGELES, CA, (3)The Scripps Research Institute, San Diego, CA

59 144.059 The Kaiser Permanente Autism Family Biobank: A Resource for Research on Autism Spectrum Disorders M. L. Massolo, C. K. Yoshida, Y. Qian, A. N. Anderson and L. A. Croen, Division of Research, Kaiser Permanente, Oakland, CA

60 144.060 The Quantitative Autism Score (QAS): A Tool to Unravel Genetic Associations S. Luzi[1], M. L. Cuccaro[1], E. R. Martin[2], M. A. Pericak-Vance[1], A. J. Griswold[3], J. R. Gilbert[1] and J. P. Hussman[4], (1)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL, (2)John P Hussman Institute for Human Genomics, University of Miami, Miami, FL, (3)University of Miami, Miami, FL, (4)Hussman Institute for Autism, Inc., Catonsville, MD

61 144.061 The Role of Dopaminergic Variants in Initiating Joint Attention in High- and Low-Risk Siblings D. N. Gangi[1], D. S. Messinger[2], E. R. Martin[3] and M. L. Cuccaro[4], (1)MIND Institute, University of California, Davis, Sacramento, CA, (2)Psychology, University of Miami, Coral Gables, FL, (3)John P Hussman Institute for Human Genomics, University of Miami, Miami, FL, (4)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL

62 144.062 Tissue-Specific Expression Quantitative Trait Loci (eQTL) in GI Symptomatic ASD Children S. J. Walker[1], A. Krigsman[2] and C. D. Langefeld[3], (1)Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC, (2)Pediatric Gastroenterology Resources of New York and Texas, Far Rockaway, NY, (3)Center for Public Health Genomics and Department of Biostatistical Sciences, Winston Salem, NC

63 144.063 Using Whole Exome Sequencing to Investigate the Genetics of Sensory Processing Disorders E. J. Marco[1], G. Da Gente[2], S. Thomas[3], A. Brandes-aitken[4] and E. Sherr[4], (1)University of California in San Francisco, San Francisco, CA, (2)Neurology, UCSF Brain Development Research Program, San Francisco, CA, (3)Epidemiology and Biostatistics, UCSF, San Francisco, CA, (4)Neurology, UCSF, San Francisco, CA

64 144.064 Whole Exome Sequencing in Extended Families Identifies Shared and Unique Likely Gene-Disrupting Alterations H. N. Cukier[1,2], S. Luzi[1], L. Gomez[1], J. M. Lee[1], P. L. Whitehead[1], I. Konidari[1], W. Hulme[1], J. Haines[3], M. L. Cuccaro[1,4], J. R. Gilbert[1,4] and M. A. Pericak-Vance[1,2,4], (1)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL, (2)Neurology, University of Miami, Miami, FL, (3) Case Western Reserve University, Cleveland, OH, (4)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami, Miami, FL

65 144.065 Whole Genome Sequencing and Identical By Descent Filtering of Autism Spectrum Disorder Extended Families Reveals Novel ASD Risk Variants A. J. Griswold[1], H. N. Cukier[1], D. Van Booven[1], P. L. Whitehead[2], N. K. Hofmann[1], J. M. Lee[2], E. R. Martin[1], M. L. Cuccaro[2], J. R. Gilbert[2], J. P. Hussman[3] and M. A. Pericak-Vance[2], (1)John P Hussman Institute for Human Genomics, University of Miami, Miami, FL, (2)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL, (3)Hussman Institute for Autism, Inc., Catonsville, MD

Poster Session

145 - Interventions Non-Pharmacologic - School Age, Adolescent, Adult

11:30 AM - 1:30 PM - Hall A

66 145.066 A Brief Behavioral Sleep Intervention Improves Sleep Onset Delay and Sleep Efficiency in Adolescents with Autism Spectrum Disorders W. A. Loring[1], R. Johnston[1], L. Gray[2], S. E. Goldman[3] and B. A. Malow[1], (1)Vanderbilt University, Nashville, TN, (2)Neurology, Vanderbilt University Medical School, Nashville, TN, (3)Vanderbilt University, franklin, TN

67 145.067 A Manualized Program to Support Transitions within Classroom Routines for Students with ASD: Child and Teacher Outcomes S. Iadarola[1], T. Smith[2], W. I. Shih[3] and T. AIR-B Network[4], (1) University of Rochester Medical Center, Rochester, NY, (2)Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (3)UCLA, Monrovia, CA, (4)AIR-B Network, Los Angeles, CA

68 145.068 A Pilot Investigation of Classroom-Based Music Therapy for Individuals with ASD and Other Disabilities **J. Mendelson**[1], Y. White[2], L. Hans[3], R. Adebari[3], J. Riggsbee[4], A. Goldsmith[3], K. Buehne[3], S. Jones[3] and G. Dawson[5], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Greensboro, NC, (2) Voices Together, Durham, NC, (3)Duke University, Durham, NC, (4) Education, Duke University, Durham, NC, (5)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC

69 145.069 A Pilot Test of Adult Social Knowledge (ASK) Workshop: An Intervention to Improve Outcomes in Young Adults with ASD **T. Oswald**[1], L. Gilhooly[2], J. B. McCauley[3], L. Libero[4], R. Hansen[5], P. C. Mundy[6], A. M. Iosif[7], S. J. Rogers[4], A. C. Stahmer[3], P. Schetter[8], S. Ruder[8], R. May[9] and M. Solomon[10], (1)2825 50th Street, University of California at Davis MIND Institute, Sacramento, CA, (2)UC Davis MIND Institute, Davis, CA, (3)University of California at Davis MIND Institute, Sacramento, CA, (4)University of California at Davis, Sacramento, CA, (5)Pediatrics and the MIND Institute, University of California Davis, Davis, CA, (6)Education and Psychiatry, University of California at Davis, Sacramento, CA, (7) Public Health Sciences, University of California Davis, Davis, CA, (8)MIND Institute, UC Davis, Sacramento, CA, (9)Alta California Regional Center, Sacramento, CA, (10)MIND Institute, Sacramento, CA

70 145.070 A Simulated Driving Intervention for Young Adults with Autism Spectrum Disorder: Attention, Perceptual, and Motor Considerations **L. E. Mash**[1,2], M. Samano[2], N. Suarez[2], S. Yu[2], J. Townsend[2] and L. Chukoskie[3], (1)SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, (2)Department of Neurosciences, University of California, San Diego, La Jolla, CA, (3)The Institute for Neural Computation, University of California, San Diego, La Jolla, CA

71 145.071 A Summer Intervention Targeting the Acquisition of Fundamental Movement Skills Among Children with ASD **K. Staples**, A. Bellerive, K. Collins and S. Lautenslager, University of Regina, Regina, SK, Canada

72 145.072 A Synthesis Review of Employment Support Interventions in ASD **D. B. Nicholas**, University of Calgary, Edmonton, AB, Canada

73 145.073 A Systematic Review of Employment Outcomes for Adults with ASD **B. M. Di Rezze**[1], H. Viveiros[2], R. I. Pop[3] and G. Rampton[3], (1)School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, (2)CanChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada, (3)McMaster University, Hamilton, ON, Canada

74 145.074 Adapting an Evidence Based Intervention Using an Implementation Science Framework **A. D. Rodgers**[1], L. A. Ruble[1], M. W. Jackson[2], C. Snell-Rood[3], W. H. Wong[1], Y. Yu[4], J. ". A. Odom[1] and J. H. McGrew[5], (1)University of Kentucky, Lexington, KY, (2)Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (3)Behavioral Sciences, University of Kentucky, Lexington, KY, (4)Indiana University-Purdue University, Indianapolis, IN, (5)Indiana University - Purdue University Indianapolis, Indianapolis, IN

75 145.075 Adaptive Changes in Anxiety and Arousal Following a Randomized Control Trial of a Theatre-Based Intervention for Youth with Autism Spectrum Disorder **B. A. Corbett**[1], S. D. Blain[1], S. Ioannou[2] and M. Balser[3], (1)Vanderbilt University, Nashville, TN, (2)Psychology and Counseling, Lipscomb University, Nashville, TN, (3)Wake Forest University, Winston-Salem, NC

76 145.076 An Examination of Predictors of Social Intervention Response for Elementary Aged Children with Autism **K. O'Connor**[1], M. Herzog[2] and J. P. Stichter[3], (1)University of Missouri, Columbia, MO, (2) Special Education, University of MIssouri, Columbia, MO, (3)Department of Special Education, University of Missouri, Columbia, MO

77 145.077 Building a Summer Transition Program for Autistic College Students That Has Replicable Benefits: A Participatory-Action Model **C. Shane-Simpson**[1], R. Obeid[2], D. DeNigris[3], M. Siller[4], E. R. Hotez[5], J. Pickens[6], M. Alicea[6], A. Massa[7] and K. Gillespie-Lynch[8], (1)The Graduate Center & College of Staten Island, New York, NY, (2)CUNY Graduate Center, New York, NY, (3)The Graduate Center & College of Staten Island, CUNY, New York, NY, (4)Hunter College of the City University of New York, New York, NY, (5)The Graduate Center of the City University of New York, New York, NY, (6)CUNY, Staten Island, NY, (7) CSI; CUNY, Staten Island, NY, (8)CUNY Graduate Center, Brooklyn, NY

78 145.078 Comparative Effectiveness of Two Non-Pharmacological Approaches to Self-Efficacy and Social Skills **E. Kemeny** and D. A. Hutchins, Recreational Therapy, Slippery Rock University, Slippery Rock, PA

79 ▸ 145.079 Current Inclusion Practices for Students with ASD in Under-Resourced Schools **L. Huynh**[1], M. Dean[2], S. Iadarola[3] and T. AIR-B Network[4], (1)UCLA, Los Angeles, CA, (2)California State University, Channel Islands, Camarillo, CA, (3)University of Rochester Medical Center, Rochester, NY, (4)AIR-B Network, Los Angeles, CA

80 145.080 Deconstructing the Literature on the Treatment of Anxiety in Youth with ASD **B. M. Marro**[1], R. J. Weber[1], L. Bungert[1], S. Sommer[1], C. M. Kerns[2], L. J. Moskowitz[3], E. Cohn[4] and M. D. Lerner[1], (1) Stony Brook University, Stony Brook, NY, (2)A.J. Drexel Autism Institute, Philadelphia, PA, (3)Psychology, St. John's University, Queens, NY, (4) Center for Health Innovation, Adelphi University, Garden City, NY

81 145.081 Effectiveness of a Novel Outdoor Behavioral Health Treatment Intervention for ASD: A Single Subject Design **M. E. Villalobos**[1], **S. Semcho**[2], D. Schuler[3] and S. Lewis[3], (1)TEACCH Autism Program University of North Carolina Chapel Hill, NC, Asheville, NC, (2)Psychiatry, TEACCH UNC Chapel Hill Autism Program, Asheville, NC, (3)CReATE: Center for Research, Assessment, and Treatment Efficacy, Asheville, NC

82 145.082 Effects of Therapeutic Horseback Riding for Youth with Autism Spectrum Disorder **Z. Pan**[1], D. A. Granger[2], J. Lucas[3], B. Dechant[4] and R. Gabriels[5], (1)Pediatrics, University of Colorado Denver school of medicine, Aurora, CO, (2)Institute for Interdisciplinary Salivary Bioscience Research, Arizona State University, (3) Johns Hopkins University School of Nursing, Bloomberg School of Public Health, and School of Medicine, Phoenix, AZ, (3)Psychiatry, University of Colorado, Aurora, CO, (4) University of Colorado - Denver, Aurora, CO, (5)Children's Hospital Colorado, Aurora, CO

83 145.083 Electrophysiological Assays of Multisensory Integration and Sensory Processing in Autism Spectrum Disorders **S. Molholm**, Neuroscience and Pediatrics, Albert Einstein College of Medicine, Bronx, NY

84 145.084 Enhancing Joint Attention Skills in Children with Autism Spectrum Disorder through an Augmented Reality Technology-Based Intervention **P. Perez Fuster**[1], G. Herrera[1], A. Ferrer[2], M. Mademtzi[3] and F. Shic[3], (1)Autism Research Group. Robotics Institute, University of Valencia, Valencia, Spain, (2)Educational and Developmental Psychology, School of Psychology, University of Valencia, Valencia, Spain, (3)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

85 145.085 Evaluating the Summer Treatment Program for Children with Autism Spectrum Disorders B. Aaronson[1,2], D. Campa[1,2], A. Compton[1,2], E. Baumler[1] and A. M. Estes[1,3], (1)University of Washington Autism Center, Seattle, WA, (2)Department of Educational Psychology, University of Washington, Seattle, WA, (3)Department of Speech and Hearing Sciences, University of Washington, Seattle, WA

86 145.086 Evaluation of the Client-Therapist Relationship in an Emotion Regulation Intervention for Children with Autism Spectrum Disorder P. Burnham Riosa and J. A. Weiss, York University, Toronto, ON, Canada

87 145.087 Examining the Effectiveness of the PEERS Program on Social Skills and Anxiety in Adolescents with Autism Spectrum Disorder T. L. Hill[1], S. Gray[1], K. Boggs[2], C. Johnson[2], E. J. Carey[2], C. N. Baker[1] and R. E. Varela[3], (1)Psychology, Tulane University, New Orleans, LA, (2) Children's Hospital, New Orleans, New Orleans, LA, (3)Loyola University New Orleans, New Orleans, LA

88 145.088 Examining the Efficacy of Teacher Training Models for Pivotal Response Treatment: A Comparison of in-Person Coaching and Video-Feedback J. K. Randolph[1], K. O'Connor[2] and S. M. Kanne[3], (1) Thompson Center, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (3) Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO

89 ▸ 145.089 Examining the Efficacy of a Family Peer Advocate Model in Reducing Caregiver Stress in Black and Hispanic Caregivers of Children with Autism Spectrum Disorder E. Fourie[1], J. M. Jamison[2], P. M. Siper[3], P. Trelles[4], M. Gorenstein[4], J. Krata[5], E. Holl[5], D. Halpern[4], A. Kolevzon[2], J. D. Buxbaum[6], B. Hernandez[5], L. Mitchell[5] and J. Shaoul[5], (1) Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai, New York, NY, (2)Psychiatry, Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai, New York, NY, (3)Seaver Autism Center, New York, NY, (4) Icahn School of Medicine at Mount Sinai, New York, NY, (5)YAI, New York, NY, (6)Psychiatry, Seaver Autism Center at Mount Sinai, New York, NY

90 145.090 Examining the Impact of the PEERS® Social Skills Intervention on Females with ASD A. McVey[1], B. Dolan[1], A. G. Meyer[1], J. S. Karst[2], S. Stevens[3], K. A. Schohl[1], C. Caiozzo[1], E. Vogt[1], S. Potts[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Children's Hospital of Wisconsin, Wauwatosa, WI, (3)University of Minnesota, Minneapolis, MN

91 145.091 Examining the Relation Between Social Anxiety and Social Engagement Outcomes Among Adolescents with Autism Spectrum Disorder Following the UCLA PEERS® Intervention A. V. Dahiya[1,2], E. Veytsman[3], R. Ellingsen[4] and E. A. Laugeson[3], (1)UCLA PEERS Clinic, Los Angeles, CA, (2)UCLA Semel Institute for Neuroscience and Behavior, Los Angeles, CA, (3)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (4) University of California Los Angeles, Los Angeles, CA

92 145.092 Examining the Role of Social-Communication in Explaining Treatment Gains for Adolescents with ASD Following the PEERS® Social Skills Intervention C. C. Bolton[1], E. Veytsman[1], Y. Bolourian[2] and E. A. Laugeson[1], (1)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)University of California - Riverside, Riverside, CA

93 ▸ 145.093 Examining the Treatment Efficacy of the PEERS in Japan: Towards Improving Social Skills of Children with Autism Spectrum Disorder T. Yamada[1], Y. Miura[2] and M. Oi[3], (1)Osaka University, Osaka, Japan, (2)Kanazawa University, Kanazawa, Japan, (3)Kanazawa University, United Graduate School of Child Dev., Kanazawa, Japan

94 145.094 Exploring the Feasibility of an Innovative Inter-Generational Computer Game for Sexual Health Education in Youth with Autism Spectrum Disorder and Other Neurodevelopmental Disabilities: A Mixed-Method Case Study P. Chaudhary[1], S. M. Dube[2], L. N. Ceglio[2], D. A. Pearson[3], H. Y. Song[4], A. M. Spencer[5], C. Markham[2], M. Peskin[6], D. Santa Maria[7], J. McLaughlin[8], J. M. Wilkerson[5], R. Addy[5] and R. Shegog[2], (1)Health Promotion and Behavioral Sciences, University of Texas School of Public Health, Houston, TX, (2)Center for Health Promotion and Prevention Research, University of Texas School of Public Health, Houston, TX, (3)Psychiatry & Behavioral Sciences, University of Texas Medical School at Houston, Houston, TX, (4)University of Texas School of BioInformatics, Houston, TX, (5)University of Texas School of Public Health, Houston, TX, (6)Center for Health Promotion and Prevention Research, Houston, TX, (7)Nursing Systems, University of Texas School of Nursing, Houston, TX, (8)Radiant Creative Group, LLC, Houston, TX

95 145.095 Family Support Interventions for Young Adults with ASD L. E. Smith[1], J. S. Greenberg[1] and M. R. Mailick[2], (1)University of Wisconsin-Madison, Madison, WI, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI

96 ▸ 145.096 Functional Score Changes in a Group of Patients with Autistic Spectrum Disorders (ASD) with Interdisciplinary Treatment S. L. Baetti, Pediatrics Mental Health, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina

97 145.097 Identification of Sensitive Outcome Measures of Functional Skills E. Ridgway, Rose F. Kennedy Children's Evaluation and Rehab Center (CERC) at Montefiore, Albert Einstein College of Medicine, Bronx, NY

98 145.098 Implementation Outcomes of a Coach-Based Transition Program for Students with ASD in Urban Educational Settings C. Aponte[1], K. Zanibbi[1], T. Smith[2], J. J. Locke[3] and T. AIR-B Network[4], (1) University of Rochester Medical Center, Rochester, NY, (2)Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (3)University of Washington Autism Center, Seattle, WA, (4)AIR-B Network, Los Angeles, CA

99 145.099 Implementation of Interventions in Under-Resourced Public Schools: Teacher and Administrator Perceptions of Programs for Students with ASD E. Reisinger Blanch[1], J. J. Locke[2], D. S. Mandell[3] and T. AIR-B Network[4], (1)University of Pennsylvania, Philadelphia, PA, (2)University of Washington Autism Center, Seattle, WA, (3)University of Pennsylvania School of Medicine, Philadelphia, PA, (4)AIR-B Network, Los Angeles, CA

100 145.100 Improvement in Reciprocal Conversation Skills and Maladaptive Behaviors in Young Adults with ASD C. A. Paisley[1], A. Dutton[1], D. R. Oosting[1], R. Doggett[2], R. Tillman[3] and P. E. Ventola[1], (1) Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2) Department of Child and Adolescent Psychiatry, The Child Study Center at NYU Langone Medical Center, New York, NY, (3)University of Maryland, College Park, MD

101 145.101 Improving Autism Outcome Measures: An Integrated Home and Clinic Protocol with Novel Technologies R. M. Jones[1], C. Carberry[1], A. Hamo[1], H. Rao[2], U. Gupta[2], A. Albin[2], R. Pawar[2], I. Kleckner[3], O. O. Wilder-Smith[4], M. S. Goodwin[4], M. Clements[2] and C. Lord[1], (1) Weill Cornell Medical College, White Plains, NY, (2)Georgia Institute of Technology, Atlanta, GA, (3)University of Rochester Medical Center, Rochester, NY, (4)Northeastern University, Boston, MA

102 145.102 Improving Impressions of Social Competence: Results from an RCT of the START Social Skills Program for Adolescents with ASD J. Ko, A. Miller, S. Solomon and T. Vernon, University of California, Santa Barbara, Santa Barbara, CA

103 145.103 Kids Love Musicals!: Social and Emotional Learning Outcomes in Special Education Environments O. Zyga[1], H. Meeker[2], J. Kirk[2] and S. W. Russ[1], (1)Psychological Sciences, Case Western Reserve University, CLEVELAND, OH, (2)The Musical Theater Project, Cleveland, OH

104 145.104 Let›s Move Your Body! Physical Activity to Treat Anxiety in Adults with Autism Spectrum Disorders N. Brondino[1], L. Fusar-Poli[1], E. Codrons[2], L. Correale[2], C. Panisi[1], P. Politi[1] and M. Vandoni[2], (1)Department of Brain and Behavioral Sciences, University of Pavia, Pavia, Italy, (2)Laboratory of Adapted Motor Activity, Department of Public Health, Experimental and Forensic Medicine, University of Pavia, Pavia, Italy

105 145.105 Measuring the Generalization of Skills in Response to Treatment in Minimally Verbal Children with ASD R. Grzadzinski[1], C. Dick[2], N. Hong[3] and C. Lord[4], (1)Center for Autism and the Developing Brain, New York, NY, (2)Center for Autism and the Developing Brain, White Plains, NY, (3)Psychiatry, Center for Autism and the Developing Brain, White Plains, NY, (4)Weill Cornell Medical College, White Plains, NY

106 145.106 Neural Validation of Sensory Subtypes in Autism Spectrum Disorder A. E. Lane, University of Newcastle, Callaghan, Australia

107 145.107 Occupational Therapy Using Sensory Integration to Improve Functional Skills in Children with Autism Spectrum Disorders – Results of a Randomized Trial R. Schaaf, Thomas Jefferson University, Phildalphia, PA

108 145.108 Omega 3 Fatty Acids and Children with Autism: Consumption and Supplementation in Community Settings S. L. Hyman[1], B. L. Schmidt[2], A. Koehler[3], E. McDonnell[4], E. A. Macklin[5] and P. A. A. Stewart[6], (1)Pediatrics, University of Rochester School of Medicine, Rochester, NY, (2)University of Rochester, Spencerport, NY, (3)Medicine, University of Buffalo, Buffalo, NY, (4)Massachusetts General Hospital Biostatistics Center, Boston, MA, (5)Biostatistics Center, Massachusetts General Hospital, Boston, MA, (6)Pediatrics, University of Rochester, Rochester, NY

109 145.109 On Target for Life: An Executive Function Intervention for Adolescents with Autism Spectrum Disorders S. Seese[1], K. M. Dudley[2], L. Kenworthy[3], L. G. Anthony[4], M. A. Werner[5], L. Cannon[5], L. Mohamed[6], C. E. Pugliese[4] and J. F. Strang[7], (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Children's National Medical Center, Center for Autism Spectrum Disorders, Ellicott City, MD, (3)Children's Research Institute, Children's National Medical Center, Rockville, MD, (4)Children's National Medical Center, Rockville, MD, (5)Ivymount School, Rockville, MD, (6)Yale Child Study Center, New Haven, CT, (7)Children's National Medical Center, Silver Spring, MD

110 145.110 Parent and Child Characteristics of Families Participating in Parent-Mediated Social Skills Interventions for Autism R. Shalev[1], M. L. Gordillo[1], K. Sullivan[1], B. Chen[1], R. Doggett[1], E. A. Laugeson[2], S. Kuriakose[1] and A. Di Martino[1], (1)Department of Child and Adolescent Psychiatry, The Child Study Center at NYU Langone Medical Center, New York, NY, (2)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

111 145.111 Performance-Based Social Skills Intervention Improves Explicit Social Cognition in Children with Autism Spectrum Disorder E. Kang, A. Burns, L. Allegue and M. D. Lerner, Stony Brook University, Stony Brook, NY

112 145.112 Pivotal Response Treatment: An Examination of Educators› Maintenance and Generalization of Fidelity of Implementation J. K. Randolph[1], J. P. Stichter[2] and C. Schmidt[3], (1)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (2)Department of Special Education, University of Missouri, Columbia, MO, (3)School of Human Services, University of Cincinnati, Cincinnati, OH

113 145.113 Preliminary Effectiveness of the Autism Life Care Model (ALCM) in Improving Comorbid Internalizing and Externalizing Symptoms in Adolescents with ASD M. Murray[1], A. Pearl[2], A. Heintzelman[3], A. Layton[1] and Z. Soulliard[1], (1)Penn State Hershey, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA, (3)Penn State College of Medicine, Hershey, PA

114 145.114 Preliminary Results of an Emotion Regulation RCT for Children with Autism Spectrum Disorder J. A. Weiss[1], P. Burnham Riosa[1] and C. S. Albaum[2], (1)York University, Toronto, ON, Canada, (2) Psychology, York University, Toronto, ON, Canada

115 145.115 Randomized Controlled Trial of a Technology-Based Intervention to Enhance Academic Organization and Planning in College Students with ASD and ADHD T. Oswald[1], A. M. Iosif[2], J. D. Hori[3], J. Wilson[4] and P. C. Mundy[5], (1)2825 50th Street, University of California at Davis MIND Institute, Sacramento, CA, (2)Public Health Sciences, University of California Davis, Davis, CA, (3)Student Disability Center, University of California, Davis, Davis, CA, (4)Student Disability Center, UC Davis, Davis, CA, (5)Education and Psychiatry, University of California at Davis, Sacramento, CA

116 145.116 Reducing Behavior Problems Among Students with Autism Spectrum Disorder: Coaching Teachers in a Mixed-Reality Setting E. Pas[1], S. R. Johnson[1], K. E. Larson[1], L. A. Brandenburg[2,3], R. Church[4] and C. Bradshaw[5], (1)Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, (2)Special Education, Kennedy Krieger Institute, Baltimore, MD, (3)School of Education, Johns Hopkins University, Baltimore, MD, (4)Kennedy Krieger Institute, Baltimore, MD, (5)University of Virginia, Curry School of Education, Charlottesville, VA

117 145.117 Social Skills Group Training in High-Functioning Autism Spectrum Disorder: A Pragmatic Multicenter RCT N. Choque Olsson[1], C. Coco[1], A. Rade[2], O. Flygare[2], Q. Chen[2], S. Berggren[1], K. Tammimies[3] and S. Bolte[4], (1)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden, (2) Karolinska Institutet, Stockholm, Sweden, (3)Women's and Children Health, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden, (4)CAP research center, Gavlegatan 22, Karolinska Institutet, Stockholm, Sweden

118 145.118 Social Tools and Rules for Teens (The START Program): Results of a Randomized Controlled Trial of an Experiential/ Didactic Socialization Program for Adolescents with ASD T. Vernon, A. Miller, J. Ko, A. Barrett and E. McGarry, Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

119 145.119 Special Education Autism Classification K. Sidwell[1], D. Lincer[2], J. Solis[2], J. Shenouda[1] and W. W. Zahorodny[3], (1)Rutgers University, Newark, NJ, (2)Pediatrics, Rutgers University, Newark, NJ, (3) New Jersey Medical School, Westfield, NJ

120 145.120 Statewide Assessment of Teachers› Perceptions Related to Educating Students with Autism Spectrum Disorders S. E. Blumberg[1], W. A. Loring[1], H. Huber[2], E. M. Kuntz[2], V. F. Knight[2], L. J. Garrett[1] and P. Juarez[1], (1)Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN

121 145.121 Sticking with It: Psychotherapy Outcomes for Adults with ASD in a University Counseling Center E. Anderberg[1], E. S. Neeley Tass[1], J. C. Cox[1], J. I. Cline[1], D. Petersen[1], D. M. Erekson[1] and M. South[1,2], (1)Brigham Young University, Provo, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT

122 145.122 Stop. Breathe. be. Supporting Youth with Autism Spectrum Disorder Using Mindfulness Training K. S. Thom and J. Montgomery, University of Manitoba, Winnipeg, MB, Canada

123 ▸145.123 Study of Effectiveness of the Emotion Regulation Training on Social Skills and Repetitive Behaviors in Children with High Functioning Autism S. Rezaei Dehnavi[1], S. Rashidi[2] and A. R. Bakhshashye[3], (1)Payame Noor university, Isfahan, Iran, (2)Islamic Azad University Yazd Branch, Isfahan, Iran, (3)Islamic Azad University Yazd Branch, Yazd, Iran

124 145.124 Summer Camps As Social Performance Intervention for Adolescents with ASD and Their Peers J. Kaboski[1], J. J. Diehl[2], K. E. Kawalec[3], K. Tang[4], H. N. Van Steenwyk[5], H. Miller[6], M. Prough[7], J. Riemersma[7], G. Ramos[7], D. Klee[7], L. T. Simon[8], J. Georgeson[7] and E. Tracy[7], (1)University of Notre Dame, Granger, IN, (2)LOGAN Community Resources, Inc., South Bend, IN, (3)University of Notre Dame, Hammond, IN, (4)Psychology, University of Notre Dame, Notre Dame, IN, (5)F.U.N. Lab at the University of Notre Dame, Brainerd, MN, (6)University of Notre Dame, Notre Dame, IN, (7)University of Notre Dame, South Bend, IN, (8) University of Notre Dame, Spring Lake, MI

125 145.125 Surviving and Thriving in the Real World: A Daily Living Skills Intervention for Adolescents with ASD A. Duncan[1], C. L. Thomas[1], L. A. Ruble[2] and L. J. Stark[1], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)University of Kentucky, Lexington, KY

126 145.126 Teaching Emotion Recognition with the Transporters DVD P. LaCava, Rhode Island College, Providence, RI

127 145.127 Teaching Research Staff Implementation of a Social Skills Intervention: An Extension of Behavior Skills Training J. Day-Watkins[1], A. Pallathra[2], J. E. Connell[1] and E. S. Brodkin[2], (1)Drexel University, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA

128 145.128 The Efficacy of Student-Assisted LEGO Therapy in Children with Autism Spectrum Disorders Using the Autism Impact Measure J. Gehricke[1,2], R. steinberg Epstein[1], L. Lam[1], A. Z. Chester[1], T. Thampipop[1], K. Pesterfield[1], R. Bisht[1], S. Quan[1] and J. H. Donnelly[1,2], (1) The Center for Autism & Neurodevelopmental Disorders, Santa Ana, CA, (2)University of California, Irvine, Santa Ana, CA

129 145.129 The Influence of Cognitive Empathy in Predicting Changes in Social Skills Improvement for Adolescents with ASD Following the UCLA PEERS® Program L. Zhang[1], J. W. Yang[1], E. Veytsman[2] and E. A. Laugeson[2], (1)The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (2)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

130 145.130 The Influence of Self-Esteem in Predicting Social Anxiety in Adolescents with ASD Following the UCLA PEERS® School-Based Curriculum J. Albright[1], C. C. Bolton[2], N. Rosen[1], L. C. Tucci[3] and E. A. Laugeson[2], (1)Psychiatry, UCLA, Los Angeles, CA, (2)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (3)The Help Group/UCLA Autism Research Alliance, Sherman Oaks, CA

131 145.131 The Relationship Between Friendship Quality, Companionship and Social Engagement in Adolescents with Autism Spectrum Disorder J. W. Yang[1], L. C. Tucci[2], Y. Bolourian[3], E. Veytsman[4], C. C. Bolton[4] 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)University of California - Riverside, Riverside, CA, (4)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA

132 145.132 The Relationship Between Treatment Acceptability and Child Outcome in Group CBT for Youth with ASD and Anxiety C. E. Walsh[1], A. Blakeley-Smith[2], L. G. Klinger[3], A. Keefer[4], A. Duncan[5], S. E. O'Kelley[6], S. Hepburn[7], E. Moody[8] and J. Reaven[9], (1)3037247659, University of Colorado Denver, Denver, CO, (2)Univ. of Colo. Denver-JFK Partners, Aurora, CO, (3)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (4)Kennedy Krieger Institute, Baltimore, MD, (5)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (6)Psychology, University of Alabama at Birmingham, Birmingham, AL, (7)University of Colorado / JFK Partners, Aurora, CO, (8)University of Colorado Anschutz Medical Campus, Aurora, CO, (9)Univ. of Colorado Denver-JFK Partners, Aurora, CO

133 145.133 The Use of an Online Intervention to Improve Emotion Identification in Clinical and Non-Clinical Young Adults with a Range of Autistic Behaviors C. Dickter[1], J. Zeman[2], J. Burk[1], C. I. Mitchell[1], K. Chaney[3], J. Ball[4] and M. Urbano[5], (1)College of William & Mary, Williamsburg, VA, (2)Psychology, College of William and Mary, Williamsburg, VA, (3)Rutgers University, New Brunswick, NJ, (4)EVMS, Norfolk, VA, (5)Eastern Virginia Medical School, Norfolk, VA

134 145.134 Training Teachers: Implementing Reading Skills & Literacy Programming within Schools K. Johnsen[1], J. Salt[1] and S. LaMontagne[2], (1)Have Dreams, Park Ridge, IL, (2)Have Dreams, Evanston, IL

135 145.135 Treatment Fidelity and the Mainstream Environment: Predictors of Successful Outcomes for ASD Youth M. C. Wills[1], L. Kenworthy[2], L. Cannon[3], J. F. Strang[4], C. Luong-Tran[5], J. L. Sokoloff[6], E. Bal[7], A. C. Armour[8] and L. G. Anthony[1], (1)Children's National Medical Center, Rockville, MD, (2)Children's Research Institute, Children's National Medical Center, Rockville, MD, (3)Ivymount School, Rockville, MD, (4) Children's National Medical Center, Silver Spring, MD, (5)Children's National Medical Center, Center for Autism Spectrum Disorders, Lorton, VA, (6)University of Missouri, Columbia, MO, (7)Kennedy Krieger Institute, Baltimore, MD, (8)Children's National Medical Center, Arlington, VA

136 145.136 Understanding Theory of Mind Improvements As a Result of Face Processing Instruction C. A. Wall[1], L. Rice[2] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Moorpark Unified School District, Simi Valley, CA

137 145.137 Understanding the Essential Elements of a Transition Program in Preparing Individuals with Autism Spectrum Disorder for Adulthood G. Y. H. Lam[1], J. C. Timmons[2] and A. Zalewska[2], (1)School Psychology Program, Department of Educational and Psychological Studies, University of South Florida, Tampa, FL, (2)Institute for Community Inclusion, University of Massachusetts Boston, Boston, MA

138 145.138 Using Multiple Informants to Assess Social Functioning and Treatment Outcome for Adolescents with ASD Following the UCLA PEERS® Program E. Veytsman[1], C. Ferrendelli[1], J. W. Yang[2], C. C. Bolton[1] and E. A. Laugeson[1], (1)Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience and Human Behavior, Los Angeles, CA, (2)The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA

139 145.139 Using Peers As Supports for Adult College Students with ASD J. Hooker[1], L. Morgan[2], T. Dasher[2] and A. Leatzow[2], (1) Communication Science and Disorders, Florida State University, Tallahassee, FL, (2)Florida State University Autism Institute, Tallahassee, FL

140 145.140 Using a Parent-Assisted Gaming Intervention to Improve the Social-Emotional Skills of Children with Autism Spectrum Disorders – a Randomized Controlled Trial R. B. Beaumont[1], H. A. Walker[2] and K. Sofronoff[3], (1)Social Skills Training Institute, St Lucia, QLD, Australia, (2)School of Psychology, University of Queensland, St Lucia, Australia, (3)School of Psychology, University of Queensland, Brisbane, QLD, Australia

141 145.141 Vocational Rehabilitation Service Use Among Youth and Young Adults with Autism: Comparing Students and Non-Students J. Rast[1], P. Shattuck[2] and K. A. Anderson[1], (1)A.J. Drexel Autism Institute, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA

142 145.142 Workplace Social Skills Program Evaluation for Young Adults with Autism Spectrum Disorder H. Thomas and T. P. Gabrielsen, Brigham Young University, Provo, UT

Poster Session
146 - Sensory, Motor, and Repetitive Behaviors and Interests
11:30 AM - 1:30 PM - Hall A

143 146.143 A Parent-Report Measure of Restricted and Repetitive Behaviors for Early Childhood J. J. Wolff[1], B. Boyd[2] and J. T. Elison[3], (1) University of Minnesota, University of Minnesota, Minneapolis, MN, (2) University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)University of Minnesota, Minneapolis, MN

144 146.144 A Study of Assessments: A Comparison of Bsiq and RBS-R Reported Rrbs S. M. Attar, P. C. Hickey and E. Hanson, Developmental Medicine Center, Boston Children's Hospital, Boston, MA

145 146.145 An fMRI Investigation of Audiovisual, Auditory and Visual Processing in Autism Spectrum Disorder P. Regener[1,2], S. A. Love[3], K. Petrini[4] and F. E. Pollick[5], (1)School of Psychology, Glasgow University, Glasgow, United Kingdom, (2)Glasgow University, Glasgow, United Kingdom, (3)Institut de Neurosciences de la Timone, Marseille, France, (4) Department of Psychology, University of Bath, Bath, United Kingdom, (5) University of Glasgow, Glasgow, United Kingdom

146 146.146 Analyzing How Autism Severity Affects Motor and Social Skills: An Exploration Using the SFARI Base Dataset A. M. Colombo-Dougovito[1] and R. E. Reeve[2], (1)University of Virginia, Charlottesville, VA, (2)University of Virginia, Earlysville, VA

147 146.147 Anticipatory Gaze during Action Observation: Impact of Social Training on Children with ASD J. L. Haworth[1], K. Libertus[2] and R. Landa[1], (1)The Kennedy Krieger Institute, Baltimore, MD, (2)University of Pittsburgh, Pittsburgh, PA

148 146.148 Are Sensory Problems in ASD Really Sensory? M. Zinni[1,2], M. Westerfield[3], L. E. Mash[1,4], S. Wee[1], L. Chukoskie[3] and J. Townsend[1], (1)Department of Neurosciences, University of California, San Diego, La Jolla, CA, (2)Neuroverse, Inc., San Diego, CA, (3)The Institute for Neural Computation, University of California, San Diego, La Jolla, CA, (4)SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA

149 146.149 Association of Somatosensory Difficulties with Behavioral Problems in Children with Autism Spectrum Disorder W. Overcast[1], A. Shui[2], A. R. Narayanan[3], J. Walton[4] and D. L. Coury[3], (1) The Ohio State University College of Medicine, Columbus, OH, (2) Massachusetts General Hospital, Boston, MA, (3)Nationwide Children's Hospital, Columbus, OH, (4)Pediatrics, Nationwide Children's Hospital, Columbus, OH

150 146.150 Attention Training in Children with Sensory Processing Disorder J. A. Anguera[1], A. Brandes-Aitken[2], C. Rolle[3], B. Wu[4], E. Martucci[5], J. Bower[5], A. Gazzaley[6] and E. J. Marco[2], (1)Neurology, UCSF SNAP, San Francicso, CA, (2)University of California in San Francisco, San Francisco, CA, (3)Stanford University, Palo Alto, CA, (4)Neurology, UCSF SNAP, San Francisco, CA, (5)Akili Interactive, Boston, MA, (6) Neurology, UCSF, San Francisco, CA

151 146.151 Baseline Respiratory Sinus Arrhythmia Predicts Restricted Repetitive Behavior Severity E. E. Condy and B. H. Friedman, Virginia Polytechnic Institute and State University, Blacksburg, VA

152 146.152 Brain System Abnormalities Associated with Reduced Control of Sustained and Repetitive Motor Behaviors M. W. Mosconi[1], L. M. Schmitt[2], S. P. White[2] and J. A. Sweeney[2], (1)University of Kansas, Lawrence, KS, (2)Center for Autism and Developmental Disabilities, University of Texas Southwestern, Dallas, TX

153 146.153 Breadth and Continuation of Object Exploration Are Impacted By ASD Risk and Motor Ambition M. B. Nebel[1,2], J. L. Haworth[3] and R. Landa[3], (1)Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, (2)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (3)The Kennedy Krieger Institute, Baltimore, MD

154 146.154 Can Timing Tasks Successfully Differentiate Children with ASD from Those with SLI? A. Gladfelter[1], J. Vuolo[2], L. Goffman[2] and H. Zelaznik[3], (1)Allied Health & Communicative Disorders, Northern Illinois University, DeKalb, IL, (2)Speech, Language, & Hearing Sciences, Purdue University, West Lafayette, IN, (3)Health & Kinesiology, Purdue University, West Lafayette, IN

155 146.155 Can't Tone It Down? Auditory Habituation in ASD N. Top[1], K. G. Stephenson[1], S. Luke[1] and M. South[1,2], (1)Brigham Young University, Provo, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT

156 146.156 Continuous and Extreme Autistic Trait Ratings Are Associated with Avoidance of Alcoholic Beverages S. Chaturvedi[1], G. Wallace[2] and N. L. Zucker[3], (1)Speech and Hearing Sciences, The George Washington University, Washington, DC, (2)The George Washington University, Washington, DC, (3)Duke Center for Eating Disorders, Duke University, Durham, NC

157 146.157 Correlates of Restricted and Repetitive Behaviours: The Role and Anxiety and Intolerance of Uncertainty. Insights Directly from Young People with ASD J. Rodgers[1], E. Honey[2] and C. Joyce[3], (1)Newcastle University, Newcastle Upon Tyne, United Kingdom, (2) CNDS, Northumbria Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (3)Newcastle University, Newcastle, United Kingdom

158 146.158 Directly Measured Physical Activity of 4 Year Old Children with Autism Spectrum Disorder E. Bremer[1] and M. Lloyd[2], (1) Infant and Child Health Lab, Department of Family Medicine, McMaster University, Hamilton, ON, Canada, (2)Faculty of Health Sciences, University of Ontario Institute of Technology, Oshawa, ON, Canada

159 146.159 Early Sensory Hyporesponsivity Predicts Later Deficits in Language Understanding in Infants at High Risk for Autism Spectrum Disorder T. Woynaroski[1], C. R. Damiano[2,3], C. J. Cascio[4], W. L. Stone[5], L. V. Ibanez[5], S. M. Bowman[6] and A. Morgan[6], (1)Vanderbilt University, Thompsons Stn, TN, (2)Carolina Institute for Developmental Disabilities, University of North Carolina School of Medicine, Chapel Hill, NC, (3) Department of Psychiatry and Behavioral Sciences, Duke University School of Medicine, Durham, NC, (4)Vanderbilt University School of Medicine, Nashville, TN, (5)Department of Psychology, University of Washington, Seattle, WA, (6)Vanderbilt University, Nashville, TN

160 146.160 Epilepsy and Repetitive Behaviors in ASD G. D. Glinos[1], J. M. Lee[2], E. R. Martin[3], J. R. Gilbert[2], M. A. Pericak-Vance[2] and M. L. Cuccaro[4], (1)John P. Hussman Institute for Human Genomics, Miami, FL, (2)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL, (3)John P Hussman Institute for Human Genomics, University of Miami, Miami, FL, (4)University of Miami, Miami, FL

161 146.161 Evaluating the Role of Social and Motor Engagement for Reducing Restrictive and Repetitive Behaviors in Autism A. Lampi[1], P. Fitzpatrick[2], V. Romero[3], J. Amaral[3], M. Richardson[3] and R. Schmidt[4], (1)Psychology, Assumption College, Worcester, MA, (2)Psychology Department, Assumption College, Worcester, MA, (3)University of Cincinnati, Cincinnati, OH, (4)College of the Holy Cross, Worcester, MA

162 146.162 Examining the Relationship Between Restricted and Repetitive Behavior Type and Internalizing and Externalizing Behaviors E. Hanson[1], D. Peterson[2] and A. K. Walsh[2], (1)Children's Hospital Boston, Boston, MA, (2)Developmental Medicine Center, Boston Children's Hospital, Boston, MA

163 146.163 Examining the Relationship of Specific Repetitive and Restricted Behaviors on Adaptive Functioning of Children with ASD K. Loftus Campe, S. M. Attar, D. Peterson and E. Hanson, Developmental Medicine Center, Boston Children's Hospital, Boston, MA

164 146.164 Examining the Time Course of Repetitive and Restricted Behaviors of Children with ASD throughout Childhood and Adolescence. Taxonomy for Parents and Providers S. M. Attar, K. Loftus Campe and E. Hanson, Developmental Medicine Center, Boston Children's Hospital, Boston, MA

165 146.165 Extent and Burden of Auditory Hypersensitivity Issues in Children with ASD E. Rubenstein[1], J. K. Law[2], A. R. Marvin[3] and P. H. Lipkin[4], (1)Department of Epidemiology, University of North Carolina, Chapel Hill, NC, (2)Interactive Autism Network, Baltimore, MD, (3)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD, (4)Kennedy Krieger Institute, Baltimore, MD

166 146.166 Gait Analysis, Physical Activity and Motor Coordination in Children with Autism Spectrum Disorders and Developmental Coordination Disorder D. Kindregan[1], L. Gallagher[2] and J. Gormley[1], (1) Physiotherapy, Trinity College Dublin, Dublin 8, Ireland, (2)Psychiatry, Trinity College Dublin, Dublin, Ireland

167 146.167 Gait and Balance Assessment in Children with Genetic Neurodevelopmental Disorders with and without Autism Spectrum Disorders S. Goldman[1], S. Dunaway Young[1], C. Mueller[2], A. K. Boehme[1], G. Sherwood[1], A. Stahl[1], A. Zoeller[2], L. D. Abbruzzese[3], A. K. Rao[1] and J. Montes[1], (1)Columbia University Medical Center, New York, NY, (2) Columbia University, New York, NY, (3)Physical Therapy, Columbia University, New York, NY

168 146.168 Heightened Attention to Nonsocial Images Is Not Driven By Feature Salience in Children with Autism R. L. Shafer[1], K. Unruh[1], J. P. Noel[1] and J. W. Bodfish[2], (1)Vanderbilt University, Nashville, TN, (2) Vanderbilt University School of Medicine, Nashville, TN

169 146.169 Holistic Processing of Unfamiliar Faces and Novel Objects in Autism R. A. Stevenson[1], S. Ferber[1], L. K. Yeung[1], N. D. Hazlett[2], A. Philipp-Muller[1], K. R. Black[1], Z. Y. Wang[1] and M. D. Barense[1], (1)Department of Psychology, University of Toronto, Toronto, ON, Canada, (2)Occupational Therapy, University of Toronto, Toronto, ON, Canada

170 146.170 How Sensory Experiences Affect Adolescents with an Autistic Spectrum Condition within a Classroom at School F. E. Howe and S. D. Stagg, Psychology, Anglia Ruskin University, Cambridge, United Kingdom

171 146.171 How Should We Measure Repetitive Behaviors in Infants and Toddlers with Autism Spectrum Disorder? P. Towle[1] and J. Cross[2], (1)Westchester Insitute for Human Development, Valhalla, NY, (2) Developmental Pediatrics, Weill Cornell University School of Medicine, New York, NY

172 146.172 Increased Force Variability in Autism Reflects Reduced Modulation of Motor Neuron Pool Beta Oscillations M. Kwon[1], S. Mohanty[2], K. Conroy[2] and M. W. Mosconi[1,2], (1)Schiefelbusch Institute for Life Span Studies and Clinical Child Psychology Program, University of Kansas, Lawrence, KS, (2)UT Southwestern Medical Center, Dallas, TX

173 146.173 Insistence on Sameness Behaviours Selectively Associate with Reported Childhood Pretend Play in Adults with ASD S. L. Barrett, C. Jones and S. R. Leekam, School of Psychology, Cardiff University, Cardiff, United Kingdom

174 146.174 Insistence on Sameness in Parents and Their Children with ASD A. N. Esler, S. T. Stronach and S. Jacob, University of Minnesota, Minneapolis, MN

175 146.175 Insistence on Sameness, Anxiety, and Social Motivation in Children with Autism Spectrum Disorder R. S. Factor[1], E. E. Condy[2], J. P. Farley[3] and A. Scarpa[1,3], (1)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA, (3)Virginia Tech Center for Autism Research, Blacksburg, VA

176 146.176 Integrating Behavioral and Electrophysiological Assessments of Sensory Reactivity in ASD P. M. Siper[1], J. L. George-Jones[1], S. M. Lurie[1,2], J. Zweifach[1,2], A. T. Wang[1], A. Kolevzon[3], J. D. Buxbaum[1] and T. Tavassoli[1], (1)Psychiatry, Seaver Autism Center at Mount Sinai, New York, NY, (2)Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, (3)Psychiatry, Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai, New York, NY

177 146.177 Interpersonal Sensory-Motor Synchronization in Adults with and without ASD during a Joint Improvisational Mirror Game R. S. Brezis[1], Y. Golland[2], L. Noy[3] and N. Levit-Binnun[2], (1)Interdisciplinary Center, East Brunswick, NJ, (2)Interdisciplinary Center, Herzliya, Herzliya, Israel, (3)Weizmann Institute of Science, Rehovot, Israel

178 146.178 Is There a Relationship Between Sleep Problems and Motor Impairment in Children with Autism Spectrum Disorder? S. J. Thomas[1], T. Hinkley[2], L. Barnett[3], T. May[1,4], N. Papadopoulos[1], J. McGinley[5], A. Timperio[6], H. Skouteris[1], J. A. McGillivray[1], J. Salmon[6] and N. J. Rinehart[1], (1)School of psychology, faculty of health, Deakin University, Burwood, Australia, (2)Centre for Exercise and Nutrition Research, Deakin University, Burwood, Australia, (3)Health and Social development, Deakin University, burwood, Australia, (4)Royal Children's Hospital, Parkville, Australia, (5)department of physiotherapy, University of Melbourne, Parkville, Australia, (6)Centre for Exercise and Nutrition, Deakin University, Burwood, Australia

179 146.179 Key Individual Characteristics Related to Circumscribed Interests in Youths with ASD C. E. Brown[1], T. N. Takahashi[2] and S. M. Kanne[3], (1)University of Missouri Columbia, Columbia, MO, (2)University of Missouri Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (3)Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO

180 146.180 Latent Constructs Underlying Sensory Subtypes: An Independent Components Analysis B. Hand[1], S. J. Dennis[2], E. J. Marco[3] and A. E. Lane[4], (1)The Ohio State University, Columbus, OH, (2)School of Psychology, University of Newcastle, Callaghan, Australia, (3)University of California in San Francisco, San Francisco, CA, (4)School of Health Sciences, University of Newcastle, Callaghan, Australia

181 146.181 Less Efficiency in Execution and Observation, but Not Imitation, of Actions in High-Functioning Young Adults with an Autism Spectrum Disorder M. Vanvuchelen[1], K. Cuypers[1,2], L. Van Schuerbeeck[1], M. A. Braeken[1], V. Ross[3], E. M. Jongen[4], R. L. Meesen[1] and C. Beelen[1,5], (1)Faculty of Medicine and Life Sciences - Rehabilitation Research Center (REVAL), Hasselt University, Diepenbeek, Belgium, (2)Department of Biomedical Kinesiology - Motor Control Laboratory - Research Center for Movement Control and Neuroplasticity, Katholieke Universiteit Leuven, Leuven, Belgium, (3)Transportation Research Institute (IMOB)-School for Mobility Sciences, Hasselt University, Diepenbeek, Belgium, (4) Transportation Research Institute (IMOB)- School for Mobility Sciences, Hasselt University, Diepenbeek, Belgium, (5)Faculty of Psychology and Educational Sciences - Parenting and Special Education, Katholieke Universiteit Leuven, Leuven, Belgium

182 146.182 Motor Ability and Oculomotor Function in Children with an Autism Spectrum Disorder E. Sumner[1] and E. L. Hill[2], (1)Department of Psychology, Goldsmiths, University of London, London, United Kingdom, (2)Goldsmiths, University of London, London, United Kingdom

183 146.183 Motor Differences in Children with Autism Engaged in Ipad Gameplay A. Anzulewicz[1], K. Sobota[2], M. Ferrara[3] and J. T. **Delafield-Butt**[3,4], (1)Psychology, Jagiellonian University, Krakow, Poland, (2)Harimata, Krakow, Poland, (3)University of Strathclyde, Glasgow, United Kingdom, (4)St. James Road, University of Strathclyde, Glasgow, United Kingdom

184 146.184 Motor Kinematic Differences in Children with ASD: Ecological Gameplay with a Sensorised Toy M. Ferrara[1], V. C. Zuccalà[2], F. Cecchi[3], C. Laschi[3], J. T. Delafield-Butt[4] and G. Passetti[3], (1)University of Strathclyde, Glasgow, Scotland, United Kingdom, (2)University of Pisa, Pisa, Italy, (3)Scuola Superiore Sant'Anna, Pisa, Italy, (4)University of Strathclyde, Glasgow, United Kingdom

185 146.185 Multimethod Longitudinal Analysis of Repetitive Behavior Measures in Children with ASD C. Farmer, L. Joseph, D. L. Mead and A. Thurm, Pediatrics and Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD

186 146.186 Multisensory Contributions to Autism: Behavioral and Neural Evidence M. T. Wallace[1], R. A. Stevenson[2] and S. H. Baum[3], (1) Psychology, Psychiatry and Hearing & Speech Sciences, Vanderbilt University, Nashville, TN, (2)Department of Psychology, University of Toronto, Toronto, ON, Canada, (3)Vanderbilt Brain Institute, Vanderbilt, Nashville, TN

187 146.187 Multisensory Temporal Integration Deficits in Sensory Processing Disorder M. T. Wallace[1] and S. H. Baum[2], (1)Psychology, Psychiatry and Hearing & Speech Sciences, Vanderbilt University, Nashville, TN, (2)Vanderbilt Brain Institute, Vanderbilt, Nashville, TN

188 146.188 Perceptual Inference in Autism Spectrum Disorders: Insights from Time-Order Effect in Tactile Discrimination L. A. Sapey-Triomphe[1], G. Sanchez[2], S. Sonié[1], C. Schmitz[1] and J. Mattout[1], (1)Lyon Neuroscience Research Center, Lyon, France, (2)Centre for Cognitive Neuroscience, Salzburg, Austria

189 146.189 Physical Activity in Children with Autism Spectrum Disorders and Developmental Coordination Disorder D. Kindregan[1], J. Gormley[1] and L. Gallagher[2], (1)Physiotherapy, Trinity College Dublin, Dublin 8, Ireland, (2)Psychiatry, Trinity College Dublin, Dublin, Ireland

190 146.190 Postural Control Mechanisms Underlying Reduced Stability in Autism Spectrum Disorder (ASD) Z. Wang[1,2,3], R. Hallac[4], K. C. Conroy[5,6], S. P. White[7], A. A. Kane[8], A. L. Collinsworth[8] and M. W. Mosconi[2,9], (1)Psychiatry, UT Southwestern Medical Center, Dallas, TX, (2)Schiefelbusch Institute for Life Span Studies and Clinical Child Psychology Program, University of Kansas, Lawrence, KS, (3)Center for Autism and Developmental Disabilities, UT Southwestern Medical Center, Dallas, TX, (4)Analytical Imaging and Modeling Center, Children's Medical Center, Dallas, TX, (5)Center for Autism and Developmental Disabilities, Dallas, TX, (6)Psychiatry, University of Texas Southwestern Medical Center, Dallas, TX, (7)Center for Autism and Developmental Disabilities, University of Texas Southwestern, Dallas, TX, (8)Analytical Imaging and Modeling Center, Children's Medical Center, Dallas, TX, (9)Dole Human Development Center, University of Kansas, Lawrence, KS

191 146.191 Postural Control Relates to Accuracy of Eye Movement in Autism Spectrum Disorder and Developmental Coordination Disorder H. L. Miller[1], P. Caçola[2], G. Sherrod[3], R. Patterson[4] and N. L. Bugnariu[5], (1) Physical Therapy, University of North Texas Health Science Center, Fort Worth, TX, (2)Kinesiology, University of Texas at Arlington, Arlington, TX, (3)University of North Texas Health Science Center, Fort Worth, TX, (4) Family Medicine, University of North Texas Health Science Center, Fort Worth, TX, (5)Physical Therapy; School of Health Professions, University of North Texas Health Science Center, Fort Worth, TX

192 146.192 Postural Stability and Its Limits in Autism Spectrum Disorder Relate to Visual Context H. L. Miller[1], L. Mattingly[2] and N. L. Bugnariu[3], (1)Physical Therapy, University of North Texas Health Science Center, Fort Worth, TX, (2)Physician Assistant Studies, University of North Texas Health Science Center, Fort Worth, TX, (3)Physical Therapy; School of Health Professions, University of North Texas Health Science Center, Fort Worth, TX

193 146.193 Predictors of Parent Responsiveness to One-Year-Olds at-Risk for ASD J. Kinard[1], J. Sideris[2], L. R. Watson[3], G. T. Baranek[4], E. Crais[3], L. Wakeford[5] and L. Turner-Brown[6], (1)University of North Carolina at Chapel Hill, Cary, NC, (2)Frank Porter Graham Child Development Institute, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)UNC Chapel Hill, Chapel Hill, NC, (5)University of North Carolina at Chapel Hill, Morrisville, NC, (6)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

194 146.194 Psychophysical Correlates of Excitatory/Inhibitory Imbalance during Visual Motion Perception in Adults with ASD and Schizophrenia B. D. Adkinson[1,2], J. H. Foss-Feig[3], W. J. Park[4], E. J. Levy[5], N. Santamauro[6], C. Schleifer[7], K. B. Schauder[8], K. Deckert[5], V. Srihari[6], J. Krystal[9], D. Tadin[4], J. McPartland[3] and A. Anticevic[6], (1)Department of Psychiatry, Yale School of Medicine, New Haven, CT, (2)Marietta College, Marietta, OH, (3)Child Study Center, Yale School of Medicine, New Haven, CT, (4)Brain and Cognitive Sciences, University of Rochester, Rochester, NY, (5)Yale Child Study Center, New Haven, CT, (6)Yale University School of Medicine, New Haven, CT, (7)Yale University, New Haven, CT, (8)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (9)Yale University - Psychiatry, New Haven, CT

195 146.195 Reduced Restricted and Repetitive Behaviors after Pivotal Response Treatment S. M. Abdullahi, D. G. Sukhodolsky, C. A. Paisley, M. L. Braconnier and P. E. Ventola, Yale Child Study Center, Yale School of Medicine, New Haven, CT

196 146.196 Relationship of Atypical Prosodic Features to Acoustic Startle Measures in Children with Autism Spectrum Disorders and Those with Typical Development H. Takahashi[1], A. Kondo[2], T. Konishi[2], K. Nishikawa[2], T. Nakahachi[1], S. Komatsu[1], R. Mazuka[2] and Y. Kamio[1], (1) National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health, Tokyo 187-8553, Japan, (2)RIKEN, BSI Lab. for Language Development, Wako-city, Saitama, Japan

197 146.197 Restricted Interests and Repetitive Behaviors Behavior As a Distinguishing Feature of Autism Spectrum Disorder (ASD) in Nonverbal Children A. R. Marvin[1], J. K. Law[2], Y. Zhang[3], P. H. Lipkin[4], P. A. Law[5], E. M. Arthur[4], D. J. Marvin[6], A. A. Westreich[6] and J. N. Constantino[3], (1)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD, (2)Interactive Autism Network, Baltimore, MD, (3)Washington University School of Medicine, Saint Louis, MO, (4)Kennedy Krieger Institute, Baltimore, MD, (5)Congo Protestant Unversity, Baltimore, MD, (6) Medical Informatics, Kennedy Krieger Institute, Baltimore, MD

198 146.198 Restricted and Repetitive Behavior As Predictors of Diagnosis and Clinician Confidence in Toddlers at Risk of ASD D. Hedley[1], M. Uljarevic[2] and R. E. Nevill[3], (1)School of Psychology and Public Health, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (3)The Ohio State University, Columbus, OH

199 146.199 Risk Factors for Self-Injurious Behavior Among Infants at-Risk for Autism Spectrum Disorder A. Dimian[1], J. J. Wolff[2], J. T. Elison[1], R. T. Schultz[3], L. Zwaigenbaum[4], J. Piven[5] and .. The IBIS Network[5], (1) University of Minnesota, Minneapolis, MN, (2)University of Minnesota, University of Minnesota, Minneapolis, MN, (3)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4) University of Alberta, Edmonton, AB, Canada, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC

200 146.200 Sensory Dis-Integration: Theoretical Foundations for and Practical Barriers to Interdisciplinary Collaboration Among Neuroscientists and Clinical Practitioners Focused on Sensory Function in Autism Spectrum Disorder C. J. Cascio[1], T. Woynaroski[2], G. T. Baranek[3] and M. T. Wallace[4], (1)Vanderbilt University School of Medicine, Nashville, TN, (2)Vanderbilt University, Thompsons Stn, TN, (3)UNC Chapel Hill, Chapel Hill, NC, (4)Psychology, Psychiatry and Hearing & Speech Sciences, Vanderbilt University, Nashville, TN

201 146.201 Sensory Processing Disorders: Phenotypic Characterization Pre and Post Intensive Occupational Therapy Based Model (STAR Model) L. J. Miller[1] and S. A. Schoen[2], (1)Sensory Processing Disorder Foundation, Greenwood Village, CO, (2)Sensory Processing Disorder Foundation, Greenwood, CO

202 146.202 Sensory Processing Relationships to Autism Spectrum Disorder Risk in Toddlers Diagnosed with ASD S. D. Tomchek[1,2], L. Little[2], W. Dunn[2] and E. Dean[2], (1)University of Louisville - Weisskopf Center, Louisville, KY, (2)University of Kansas Medical Center, Kansas City, KS

203 146.203 Sensory Response Patterns Are Associated with Attentional Deficits in Preschoolers with ASD M. Sabatos-DeVito[1], M. Murias[2], B. P. Rardin[1], S. T. Major[1], J. Newman[1], K. S. Davlantis[1] and G. Dawson[1], (1)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (2)Duke University, Durham, NC

204 146.204 Sensory and Motor Difficulties Predict Severity of Autism Symptoms P. Hannant[1], S. A. Cassidy[1], F. Mann[2] and T. Tavassoli[3], (1)Coventry University, Coventry, United Kingdom, (2) University of Birmingham, Birmingham, United Kingdom, (3)Psychiatry, Seaver Autism Center at Mount Sinai, New York, NY

205 146.205 Sensory-Motor and Language Behaviors in Infants with High and Low ASD Risk in the First Year of Life J. Heathcock[1], A. Bean Ellawadi[2], B. Hand[2] and A. E. Lane[3], (1)Division of Physical Therapy, The Ohio State University, Columbus, OH, (2)The Ohio State University, Columbus, OH, (3)University of Newcastle, Callaghan, Australia

206 146.206 Studying Restricted and Repetitive Behaviors : An Individual Items Versus a Clustered Approach of Analysis V. Langlois[1], A. Beauchamp Chatel[2], V. Larose[3], V. Courchesne[4], S. Mineau[1], L. Mottron, M.D.[5] and C. Jacques[6], (1)Centre d'excellence en Troubles envahissants du développement de, Montréal, QC, Canada, (2)Psychiatry, University of Montreal, Montreal, QC, Canada, (3)Université du Québec en Outaouais, Gatineau, QC, Canada, (4)University of Montreal, Montréal, QC, Canada, (5)Centre d'Excellence en Troubles Envahissants du Développement, Montréal, QC, Canada, (6)Universite du Quebec en Outaouais, Gatineau, QC, Canada

207 146.207 The Content and Function of Interests in the Broad Autism Phenotype K. E. Morrison[1], L. Chambers[2], D. J. Faso[3] and N. J. Sasson[2], (1)The University of Texas at Dallas, Dallas, TX, (2)University of Texas at Dallas, Richardson, TX, (3)University of Texas at Dallas, Allen, TX

208 ▸146.208 The Difference in Sensory Processing Between Children with and without ASD T. Brahim, N. Gaddour, S. Missaoui and L. Gaha, University of Monastir, Monastir, Tunisia

209 146.209 The End-State Comfort Effect in Children with Autism Spectrum Disorder and Typically Developing Children: The Importance of Functionally Relevant Motor Tasks G. C. Bellinger[1], R. A. Rodgers[1], S. J. Gannon[1], B. G. Travers[2] and A. H. Mason[1], (1)University of Wisconsin - Madison, Madison, WI, (2)Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI

210 146.210 The Factor Structure of Restricted and Repetitive Behaviors in Young Children with and without Autism Spectrum Disorder D. Dow and A. M. Wetherby, Florida State University Autism Institute, Tallahassee, FL

211 146.211 The Flexibility Scale: A Parent-Report Inventory of Flexibility Skills in Children with Autism Spectrum Disorders without ID J. F. Strang[1], L. Kenworthy[2], L. G. Anthony[3], B. E. Yerys[4], K. Hardy[5] and G. Wallace[6], (1)Children's National Medical Center, Silver Spring, MD, (2)Children's Research Institute, Children's National Medical Center, Rockville, MD, (3)Children's National Medical Center, Rockville, MD, (4) The Center for Autism Research, Philadelphia, PA, (5)Neuropsychology, Children's National Medical Center, Rockville, MD, (6)The George Washington University, Washington, DC

212 146.212 The Impact of Movement Complexity on Movement Planning and Execution in Individuals with an Autism Spectrum Disorder R. Zheng[1], S. R. Passmore[2,3] and C. M. Glazebrook[3,4], (1)University of Alberta, Edmonton, AB, Canada, (2)Faculty of Kinesiology & Recreation Management, University of Manitoba, Winnipeg, MB, Canada, (3) Health, Leisure, & Human Performance Research Institute, Winnipeg, MB, Canada, (4)Kinesiology & Recreation Management, University of Manitoba, Winnipeg, MB, Canada

213 146.213 The Influence of Atypical Sensory Processing and Anxiety on ASD Symptomatology K. R. Black[1], R. A. Stevenson[1], B. L. Ncube[2], M. Segers[2], S. Z. Sun[1], J. M. Bebko[2], A. Philipp-Muller[1], M. Johnston[3], Z. Y. Wang[1], M. D. Barense[1] and S. Ferber[1], (1)Department of Psychology, University of Toronto, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada, (3)University of Western Ontario, London, ON, Canada

214 146.214 The P-Gsq: A New Self-Report Sensory Questionnaire for Children D. R. Simmons[1], A. E. Robertson[2] and L. Brown[1], (1)School of Psychology, University of Glasgow, Glasgow, Scotland, (2)Psychology, University of Dundee, Dundee, Scotland

215 146.215 The Use of a Kinect-Based Technology to Enhance Sensory-Motor Skills in Children with Autism M. Mademtzi[1], K. Guldberg[2] and K. Wittemeyer[3], (1)University of Birmingham, Bimringham, United Kingdom, (2)University of Birmingham, Birmingham, United Kingdom of Great Britain and Northern Ireland, (3)University of Birmingham, Birmingham, United Kingdom

216 146.216 The Validation of a New Measure for Assessing the Frequency and Impact of Sensory Sensitivities in Autism, the Sensory Processing Behaviour Questionnaire, and Its Association with Anxiety Symptoms L. E. Neil[1], E. Pellicano[1] and D. Green[2], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)Oxford Brookes University, London, United Kingdom of Great Britain and Northern Ireland

217 146.217 Tip-Toe Behavior (TTB) Presentation Pattern and Achilles›s Tendon Shortening: Are They Related in ASD Children? G. Valagussa, V. Balatti, L. Trentin and E. Grossi, Autism Unit, Villa Santa Maria Institute Neuropsychiatric Rehabilitation Center, Tavernerio, Italy

218 146.218 Typology of Temporal Patterns: Identifying Subgroups of Individuals with ASD M. S. Goodwin[1] and H. McGee[2], (1)312 E Robinson Hall, 360 Huntington Ave., Northeastern University, Boston, MA, (2)University of Rhode Island, Kingston, RI

219 146.219 Unusual Sensory Behaviors in Infants at Risk for Autism A. N. Bhat[1], H. Van Etten[2], M. Kaur[1], S. Srinivasan[1] and K. R. Dobkins[3], (1)University of Delaware, Newark, DE, (2)UCSD Department of psychology, San Diego, CA, (3)Department of Psychology, University of California, San Diego, La Jolla, CA

220 146.220 What Interests Young Autistic Children? Assessing Object Exploration and Repetitive Behaviors in a Stimulating Play Situation C. Jacques[1], V. Courchesne[2], A. A. S. Meilleur[3], S. Mineau[4], S. Ferguson[5], D. Cousineau[6], L. Mottron, M.D.[7] and M. Dawson[4], (1)Universite du Quebec en Outaouais, Gatineau, QC, Canada, (2)University of Montreal, Montréal, QC, Canada, (3)Centre d'excellence en Troubles envahissants du développement, Montreal, QC, Canada, (4)Centre d'excellence en Troubles envahissants du développement de, Montréal, QC, Canada, (5)Centre d'excellence en Troubles envahissants du développement, Montréal, QC, Canada, (6)Hôpital Ste-Justine, Montréal, QC, Canada, (7)Centre d'Excellence en Troubles Envahissants du Développement, Montréal, QC, Canada

Oral Session - 6A

148 - Perinatal Risk Factors
1:45 PM - 2:35 PM - Hall B

1:45 148.001 Neonatal Inflammation and Autism Risk in a Swedish Birth Cohort R. M. Gardner[1], B. Lee[2,3,4], H. Karlsson[1] and C. Dalman[1], (1)Karolinska Institutet, Stockholm, Sweden, (2)Drexel University, Philadelphia, PA, (3)Drexel University School of Public Health, Philadelphia, PA, (4)A.J. Drexel Autism Institute, Philadelphia, PA

1:57 148.002 Prenatal Maternal Thyroid Antibody, Immune Context and Risk of Autism in a Finnish Prenatal Birth Cohort K. Cheslack-Postava[1], H. M. Surcel[2], S. Hinkka-Yli-Salomäki[3], Y. Bao[1], A. Sourander[3] and A. S. Brown[1], (1)Columbia College of Physicians and Surgeons, New York, NY, (2)National Institute for Health and Welfare, Oulu, Finland, (3)University of Turku, Turku, Finland

2:09 148.003 Hypertensive Disorders with Placental Insufficiency Associated with Increased Autism and Intellectual Disability Risk P. Krakowiak[1], D. J. Tancredi[2], G. Xing[3] and C. Walker[4], (1)2825 50th Street, UC Davis, Sacramento, CA, (2)Pediatrics, UC Davis School of Medicine, Sacramento, CA, (3)Center for Healthcare Policy and Research, University of California, Davis, Davis, CA, (4)MIND Institute, University of California, Davis, Sacramento, CA

2:21 148.004 Diabetes and Hypertension in Pregnancy in Association with Autism Spectrum Disorder in the Child C. Cordero[1], G. C. Windham[2], M. D. Fallin[3], L. A. Croen[4], W. Thompson[5], L. A. Schieve[5] and J. L. Daniels[6], (1)The University of North Carolina-Chapel Hill, Carrboro, NC, (2)California Department of Public Health, Richmond, CA, (3)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (4)Division of Research, Kaiser Permanente, Oakland, CA, (5)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (6)University of North Carolina, Chapel Hill, NC

Oral Session - 6B
149 - Environmental Exposures
2:40 PM - 3:30 PM - Hall B

2:40 149.001 Air Pollution, Developmental Delays and Autism Spectrum Disorder in the Early Markers of Autism (EMA) Study B. Park[1], L. A. Croen[2], M. Kharrazi[3], M. Pearl[3], G. C. Windham[3], O. Zerbo[2] and H. E. Volk[4], (1)Drexel University, Philadelphia, PA, (2)Division of Research, Kaiser Permanente, Oakland, CA, (3) California Department of Public Health, Richmond, CA, (4)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

2:52 149.002 PBDE Exposures during Pregnancy and Risk of Autism Spectrum Disorders at 3 Years: Results from the Prospective MARBLES Study I. Hertz-Picciotto[1], C. Philippat[2], D. J. Tancredi[3], D. Bennett[4], Y. Lin[5] and B. Puschner[5], (1)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (2)UC Davis MIND Institute, Sacramento, CA, (3)Pediatrics, UC Davis School of Medicine, Sacramento, CA, (4)Public Health Sciences, University of California, Davis, Davis, CA, (5)University of California, Davis, Davis, CA

3:04 149.003 Neonatal Thyroid Hormone Levels in Association with Autism Spectrum Disorder K. Lyall[1], M. Anderson[2], M. Kharrazi[3] and G. C. Windham[3], (1)A.J. Drexel Autism Institute, Philadelphia, PA, (2)Impact Assessment, Inc., La Jolla, CA, (3)California Department of Public Health, Richmond, CA

3:16 ▸149.004 Maternal Plasma Folate, Vitamin B12 Levels and Multivitamin Supplement during Pregnancy and Risk of Autism Spectrum Disorders in the Boston Birth Cohort R. Raghavan[1], A. Riley[2], D. M. Caruso[3], X. Hong[4], G. Wang[2], B. Ajao[5], J. Zhang[6], Y. Ji[2], M. Li[7], H. He[2], Z. Chen[2], M. C. Wang[2], C. Pearson[8], L. K. Hironaka[8], L. Sices[8], M. D. Fallin[9] and X. Wang[10], (1)Center on Early Life Origins of Disease, Population, Family and Reproductive Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Center on the Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD, (4)Johns Hopkins University School of Public Health, Baltimore, MD, (5)Population, Family and Reproductive Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7) Johns Hopkins School of Public Health, Baltimore, MD, (8)The Boston University Medical Center, Boston, MA, (9)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (10)Center on Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD

Oral Session - 7A
150 - White Matter Development in ASD
1:45 PM - 2:35 PM - Room 307

1:45 150.001 White Matter Development in Infancy Predicts Repetitive Behavior and Sensory Features J. J. Wolff[1], M. R. Swanson[2], J. T. Elison[1], H. C. Hazlett[3], J. R. Pruett[4], R. T. Schultz[5], M. D. Shen[2], C. Vachet[6], L. Zwaigenbaum[7], J. Piven[2] and .. The IBIS Network[2], (1)University of Minnesota, Minneapolis, MN, (2) University of North Carolina at Chapel Hill, Chapel Hill, NC, (3) Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Washington University School of Medicine, Saint Louis, MO, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)University of Utah, Salt Lake City, UT, (7)University of Alberta, Edmonton, AB, Canada

1:57 150.002 Structural Abnormalities in Corpus Callosum Fibers during Early Autism Development N. Fingher[1], I. Dinstein[2], M. Ben-Shachar[3], S. Haar[1], A. M. Dale[4], L. T. Eyler[5], K. Pierce[6] and E. Courchesne[6], (1)Cognitive and Brain Sciences, Ben Gurion University, Beer Sheva, Israel, (2)Psychology, Ben Gurion University, Beer Sheva, Israel, (3)Linguistics, Bar Ilan University, Ramat Gan, Israel, (4)Radiology, University of California San Diego, La Jolla, CA, (5)Psychiatry, University of California San Diego, San Diego, CA, (6)Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA

2:09 150.003 Longitudinal Development of White Matter in Autism Spectrum Disorder D. C. Dean[1], B. G. Travers[2], N. Adluru[1], D. Tromp[1], D. Destiche[1], A. Freeman[1], B. A. Zielinski[3], M. D. Prigge[4], J. S. Anderson[5], E. D. Bigler[6], N. Lange[7], A. L. Alexander[1] and J. E. Lainhart[1], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI, (3)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (4)Pediatrics, University of Utah, Salt Lake City, UT, (5)University of Utah, Salt Lake City, UT, (6)Psychology/Neuroscience Center, Brigham Young University, Provo, UT, (7)McLean Hospital, Cambridge, MA

2:21 150.004 White Matter Microstructure in Youth with a History of Autism Spectrum Disorder Who Have Achieved an Optimal Outcome B. Castelluccio[1], M. Stevens[2,3], I. M. Eigsti[1], R. T. Schultz[4], L. Naigles[1], E. A. Kelley[5] and D. A. Fein[6], (1)University of Connecticut, Storrs, CT, (2)Olin Neuropsychiatry Research Center, Hartford, CT, (3)Psychiatry, Yale University School of Medicine, New Haven, CT, (4)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)Queen's University, Kingston, ON, Canada, (6)Psychology, University of Connecticut, Storrs, CT

Oral Session - 7B

151 - Brain Connectivity and Neural Networks in ASD
2:40 PM - 3:30 PM - Room 307

2:40 151.001 Dysfunctional Brain Communities in Autism A. Venkataraman[1], D. Yang[2], K. Pelphrey[2] and J. S. Duncan[1,3], (1) Diagnostic Radiology, Yale University, New Haven, CT, (2)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (3) Biomedical & Electrical Engineering, Yale University, New Haven, CT

2:52 151.002 Differences in EEG Coherence Between ASD and Typical Development Are State-Dependent A. W. Buckley[1], C. Farmer[1], R. Scott[2], A. Tyler[2], J. M. Mahoney[2], S. Burroughs[2], G. Holmes[2], S. E. Swedo[1] and A. Thurm[1], (1)Pediatrics and Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (2)University of Vermont College of Medicine, Burlington, VT

3:04 151.003 Functional Connectivity Scanning in Minimally-Verbal Children with ASD M. South[1], T. P. Gabrielsen[1], B. Hansen[2], R. Kellems[2], E. Anderberg[1], K. G. Stephenson[1], L. Peacock[1], A. Ward[1], C. J. Kipp[1], M. D. Prigge[3], R. A. Lundwall[1], B. A. Zielinski[4], P. T. Fletcher[5] and J. S. Anderson[5], (1)Brigham Young University, Provo, UT, (2)Department of Counseling Psychology and Special Education, Brigham Young University, Provo, UT, (3)Pediatrics, University of Utah, Salt Lake City, UT, (4)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (5)University of Utah, Salt Lake City, UT

3:16 151.004 Cerebellar Connectivity and Glutamatergic Metabolite Concentration in ASD As Assessed By fcMRI/MRS J. P. Hegarty II[1], D. Weber[2] and D. Q. Beversdorf[3], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)University of Missouri, Columbia, MO, (3)University of Missouri, Columbia, Columbia, MO

Oral Session - 8A

152 - Early Detection and Access to Care
1:45 PM - 2:35 PM - Room 308

1:45 152.001 Increasing Access to Autism Diagnostic Care: A Quality Improvement Model H. L. Johnson, P. Manning-Courtney and B. Cunningham, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

1:57 ▸ 152.002 Mobilizing Community Systems to Tackle Challenges of Early Detection of ASD in Underserved Populations R. R. Grinker[1], A. Delehanty[2], A. M. Wetherby[3], A. Evans[4], J. Brown[5], J. L. Stapel-Wax[6], C. Ahmann[1], T. N. Day[7], S. Mazzatenta[8], R. Turchi[9], E. Kaiser[10], K. L. Traub[11], D. L. Robins[11], H. Flynn[12], A. Klin[13], C. J. Newschaffer[14] and C. Lord[15], (1)George Washington University, Washington, DC, (2)Communication Science & Disorders, Florida State University, Tallahassee, FL, (3) Florida State University Autism Institute, Tallahassee, FL, (4) National Black Church Initiative, Washington, DC, (5)College of Medicine, Florida State University, Tallahassee, FL, (6)Emory University School of Medicine, Atl, GA, (7)Psychology, Florida State University, Tallahassee, FL, (8)Autism Institute, College of Medicine, Florida State University, Tallahassee, FL, (9)Drexel University, Philadelphia, PA, (10)Infant Toddler Community Outreach, Marcus Autism Center, Atlanta, GA, (11)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (12)Florida State University, Tallahassee, FL, (13)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (14)A.J. Drexel Autism Institute, Philadelphia, PA, (15)Weill Cornell Medical College, White Plains, NY

2:09 152.003 Use of Smartphone Technology and Machine Learning to Improve Access to Care C. Lajonchere[1,2] and B. Vaughan[1], (1) Cognoa, Inc., Palo Alto, CA, (2)Biomedical Engineering, University of Southern California, Los Angeles, CA

2:21 152.004 The Effects of Autism Insurance Mandates on Treated Prevalence and Service Use D. S. Mandell[1], A. Epstein[2], M. Xie[3], S. 2. Marcus[3], K. Shea[3], K. T. Mullan[3], Z. Cidav[4] and C. Barry[5], (1) University of Pennsylvania School of Medicine, Philadelphia, PA, (2)Medicine, University of Pennsylvania, Philadelphia, PA, (3) University of Pennsylvania, Philadelphia, PA, (4)Center for Mental Health Policy and Services Research, University of Pennsylvania, Philadelphia, PA, (5)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

Oral Session - 8B

153 - School and Community Deployed Randomized Trials
2:40 PM - 3:30 PM - Room 308

2:40 153.001 Efficacy of the ASAP Intervention for Preschoolers with Autism Spectrum Disorder B. Boyd[1], L. R. Watson[1], M. Alessandri[2], G. T. Baranek[3], E. Crais[1], A. L. Donaldson[4], L. D. Johnson[5], A. Gutierrez[2] and S. S. Reszka[6], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of Miami, Coral Gables, FL, (3)UNC Chapel Hill, Chapel Hill, NC, (4)Speech & Hearing Sciences, Portland State University, Portland, OR, (5)Educational Psychology, University of Minnesota, Minneapolis, MN, (6)UNC-Chapel Hill, Chapel Hill, NC

2:52 153.002 Community-Partered Practice: Delivery of a Social Communication Intervention By Paraprofessionals with Toddlers with ASD S. Y. Shire[1], Y. C. Chang[2], S. Bracaglia[3], M. Kodjoe[3], W. I. Shih[4] and C. Kasari[1], (1)University of California Los Angeles, Los Angeles, CA, (2)California State University, Cerritos, CA, (3) New York Center for Child Development, New York, NY, (4)UCLA, Monrovia, CA

3:04 153.003 Evidence for Maintenance of Emotion Recognition Gains Using the Transporters Animated Series: Results of a Randomized Controlled Trial T. Gev, R. Rosenan and O. Golan, Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel

3:16 153.004 Randomized Control Trial of the Social ABCs Parent-Mediated Intervention for Toddlers with Confirmed or Suspected ASD S. E. Bryson[1], J. A. Brian[2], I. M. Smith[3] and L. Zwaigenbaum[4], (1)Dalhousie University, Halifax, NS, Canada, (2)Bloorview Research Institute, Toronto, ON, Canada, (3)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (4)University of Alberta, Edmonton, AB, Canada

Oral Session - 9A

154 - Preparing Youth with ASD for Adolescence and Beyond
1:45 PM - 2:35 PM - Room 309

1:45 154.001 Parents› Decisions to Disclose Their Child›s Autism Spectrum Diagnosis to Their Child C. Moody[1], L. Berkovits[1], J. Blacher[2] and B. L. Baker[3], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California - Riverside, Riverside, CA, (3)UCLA, Los Angeles, CA

1:57 154.002 The Sword in the Soul: Meanings of Autism Spectrum Conditions Among Diagnosed Adolescents E. Fein, Psychology, Duquesne University, Pittsburgh, PA

2:09 154.003 How Adolescents with Autism and Their Parents Perceived the Chilled Program: A Treatment Acceptability Framework for Autism Researchers T. C. Kidd[1], R. Rooney[2] and T. G. Mazzucchelli[3], (1)Curtin University, Perth, WA, Australia, (2) Curtin University, Perth, Australia, (3)School of Psychology and Speech Pathology, Curtin University, Perth, Australia

2:21 ▸154.004 Life after High School: Trends in Post-Secondary Education and Employment for Individuals with ASD Across Virginia S. Carr and S. M. Prohn, Virginia Commonwealth University, Richmond, VA

Oral Session - 9B

155 - Quality of Life, Internalizing Symptoms, & Employment
2:40 PM - 3:30 PM - Room 309

2:40 155.001 Characterizing Objective Quality of Life and Normative Outcomes in Adults with Autism Spectrum Disorder: A Latent Class Exploratory Analysis L. Bishop-Fitzpatrick[1], J. Hong[1], L. E. Smith[2], R. A. Makuch[1], J. S. Greenberg[2] and M. R. Mailick[1], (1) Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)University of Wisconsin-Madison, Madison, WI

2:52 155.002 High Early Parental Expectations Predict Improved Independent Living and Quality of Life for Adults with Autism Spectrum Disorder E. T. Schroeder[1], P. S. Powell[2], E. M. Lamarche[3], M. R. Klinger[4] and L. G. Klinger[5], (1)UNC TEACCH Autism Program, Carrboro, NC, (2)University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)UNC TEACCH Autism Program, Chapel Hill, NC, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC

3:04 155.003 Health Care Service Utilization in an Integrated Healthcare Delivery System Among Adults with Autism Spectrum Disorders L. A. Croen, O. Zerbo and Y. Qian, Division of Research, Kaiser Permanente, Oakland, CA

3:16 155.004 Virtual Reality Job Interview Training and 6-Month Vocational Outcomes for Young Adults with Autism Spectrum Disorder M. J. Smith, Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine, Chicago, IL

Oral Session - 10A

156 - Exploring Cognitive Processes to Inform ASD Characteristics
1:45 PM - 2:35 PM - Room 310

1:45 156.001 Exploring What›s Missing: What Do Target Absent Trials Reveal about Autism Search Superiority? B. Keehn[1,2] and B. Joseph[3], (1)Psychological Sciences, Purdue University, West Lafeyette, IN, (2)Speech, Language, and Hearing Sciences, Purdue University, West Lafeyette, IN, (3)Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA

1:57 156.002 Emotion Shifting, Emotion Knowledge and Inhibitory Control in Children with ASD B. Wilson, E. F. Geib, A. F. Lee and E. Bisi, Clinical Psychology, Seattle Pacific University, Seattle, WA

2:09 156.003 Auditory Perceptual Capacity Is Superior in Autism A. Remington[1] and J. Fairnie[2], (1)Centre for Research in Autism & Education, UCL IOE, London, United Kingdom, (2)UCL, London, United Kingdom

2:21 156.004 Recognition Memory in Adults with Autism Spectrum Disorder – the Pupil Old/New Effect M. Ring[1], D. M. Bowler[2] and S. B. Gaigg[3], (1)City University London, London, England, United Kingdom, (2)Psychology, City University London, London, United Kingdom, (3)City University London, London, United Kingdom of Great Britain and Northern Ireland

Oral Session - 10B

157 - Cognitive and Perceptual Influences on Learning and Daily Functioning
2:40 PM - 3:30 PM - Room 310

2:40 157.001 The Role of Executive Function on Adaptive Behavior Skills J. L. Mussey[1], K. M. Dudley[2] and L. R. Guy[1], (1)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (2)TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

2:52 157.002 Educational Implications of Auditory Processing Deficits in Students with High-Functioning Autism Spectrum Disorders L. E. Swain-Lerro[1,2], N. S. McIntyre[2], M. C. Zajic[2], P. C. Mundy[3], J. B. McCauley[4], H. K. Schiltz[5] and T. Oswald[4], (1)School of Education, UC Davis, Davis, CA, (2)University of California at Davis MIND Institute, Davis, CA, (3)Education and Psychiatry, University of California at Davis, Sacramento, CA, (4)University of California at Davis MIND Institute, Sacramento, CA, (5)Human Development, University of California at Davis, Davis, CA

3:04 157.003 Metacognitive Support for Mathematics Learning in Children with Autism Spectrum Disorder (ASD) K. L. Maras[1], M. Brosnan[2] and T. Gamble[2], (1)Claverton Down, University of Bath, Bath, United Kingdom, (2)University of Bath, Bath, United Kingdom

3:16 157.004 Vestibular Stimulation Improves Skill Learning in Minimally Verbal Children with ASD: A Comparative Study with ADHD and Typical Controls G. Katz Nave[1], Y. Adini[2], O. E. Hetzroni[3] and Y. S. Bonneh[4], (1)Special Education, University of Haifa, Haifa, Israel, (2)Vision Research Inst., Kiron, Israel, (3) University of Haifa, Haifa, Israel, (4)Bar-Ilan University, Ramat Gan, Israel

4:30 158.003 Dimensional Analysis of Executive Dysfunction Comorbidity in ASD and ADHD C. J. Vaidya[1], X. You[2], M. Norr[3], E. Murphy[3], W. D. Gaillard[2] and L. Kenworthy[4], (1)Department of Psychology, Georgetown University, Washington, DC, (2)Children's Research Institute, Childrens National Medical Center, Washington, DC, (3)Department of Psychology, Georgetown University, Washington D.C., DC, (4)Children's Research Institute, Children's National Medical Center, Rockville, MD

5:00 158.004 ASD and Inattention: Multimodal Imaging Implicates the Salience Network B. E. Yerys[1], M. G. Mosner[2], L. Antezana[3], L. Kenworthy[4], B. Tunc[5], T. Satterthwaite[5], R. Verma[6], W. D. Gaillard[7], C. J. Vaidya[8], C. Davatzikos[5] and R. T. Schultz[9], (1)The Center for Autism Research, Philadelphia, PA, (2)University of North Carolina at Chapel Hill, Carrboro, NC, (3)Virginia Tech, Blacksburg, VA, (4) Children's Research Institute, Children's National Medical Center, Rockville, MD, (5)University of Pennsylvania, Philadelphia, PA, (6) Center for Biomedical Image Computing and Analytics, University of Pennsylvania, Philadelphia, PA, (7)Children's Research Institute, Childrens National Medical Center, Washington, DC, (8) Department of Psychology, Georgetown University, Washington, DC, (9)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

Panel Session
158 - Dissecting Comorbidity in ASD: Focus on Inattention, Hyperactivity and Impulsivity
3:30 PM - 5:30 PM - Room 307

Session Chair: A. Di Martino, *NYU Child Study Center, New York, NY*

Overwhelming evidence indicates that inattention, hyperactivity and impulsivity (I/HI), core characteristics of attention-deficit/hyperactivity disorder (ADHD), are among the most frequent psychiatric comorbidities in Autism Spectrum Disorder (ASD). Such comorbidity further compromises functioning and poses challenges for treatment. Yet, little is known regarding the mechanisms underlying the co-occurrence of ASD and I/HI symptoms. For example, it remains unclear if I/HI symptoms in ASD stem from distinct mechanism(s) from those in ADHD and whether assessment and treatment protocols should be identical. Research aiming to attain such knowledge can help advance neuroscientific models of ASD heterogeneity. Further, this work represents a critical step towards identifying individuals at greater risk of I/HI comorbidity, those more likely to respond to currently available treatments, and informing treatment development. This panel integrates state-of-the-art clinical and brain imaging research aimed to provide a nuanced understanding of the overlap of I/HI and ASD. In presenting empirical findings, we will highlight the processes of identifying clinically meaningful markers able to 'stratify' children with ASD and I/HI. The working framework that we will present can inform a range of other efforts addressing sources of heterogeneity in ASD related to psychiatric comorbidities.

3:30 158.001 Social-Communication and Repetitive Behaviors in Children with ADHD S. L. Bishop[1], A. Havdahl[2], R. Grzadzinski[3] and C. Lord[2], (1)Department of Psychiatry, University of California San Francisco, San Francisco, CA, (2)Weill Cornell Medical College, White Plains, NY, (3)Center for Autism and the Developing Brain, New York, NY

4:00 158.002 Imaging the Connectome in Autism and ADHD: What› s Distinct and What›s Shared? A. Di Martino, NYU Child Study Center, New York, NY

Panel Session
159 - Translational Approaches to Abnormal Communication in ASD
3:30 PM - 5:30 PM - Hall B

Session Chair: L. Morett, *University of Pittsburgh, Pittsburgh, PA*

Discussant: J. J. Diehl, *LOGAN Community Resources, Inc., South Bend, IN*

According to the DSM-5, social communication impairments are one of two core diagnostic criteria for autism spectrum disorder (ASD), resulting in reduced ability to function independently. The goal of this panel is to show how basic research findings on communication deficits in ASD can improve the assessment and treatment of these impairments. This panel will present research on several aspects of abnormal communication in ASD, with particular attention to implications for diagnosis and treatment. One strand of research will focus on the use of vivo brain imaging techniques to reveal biomarkers of abnormal auditory processing, emotional language comprehension, and temporal gesture-speech integration. The ability of these biomarkers to improve impairment detection, individual stratification, and assessment of treatment efficacy will be discussed. Another strand of research will demonstrate the efficacy of a brief, low-cost intervention providing explicit instruction in prosodic phrasing. The implications of this intervention for theories of impaired communication in ASD will be discussed. A discussant who conducts research on communication in ASD and advises an organization providing evidence-based treatments for communication deficits in ASD will enrich discussion of the translational significance of the research presented in this panel, ensuring its informativeness for scientists, practitioners, and stakeholders alike.

3:30 159.001 A Brief, Low-Cost Intervention for Prosodic Phrasing in High-Functioning ASD: Translating Science into Treatment I. M. Eigsti[1] and J. Mayo[2], (1)University of Connecticut, Storrs, CT, (2) Psychological Sciences, University of Connecticut, Storrs, CT

3:55 159.002 MEG Measures of Auditory Processing in ASD: Prognostic Biomarkers T. P. Roberts[1,2], R. G. Port[2], L. Blaskey[1] and J. C. Edgar[1], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Neuroscience Graduate Group, Biomedical Graduate Studies, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

4:20 159.003 Emotional Language Processing in Individuals with and without Autism L. A. Sand[1], E. Redcay[2], T. Zeffiro[3] and D. J. Bolger[1], (1)Human Development & Quantitative Methodology, University of Maryland, College Park, MD, (2)Department of Psychology, University of Maryland, College Park, MD, (3) Neurometrika, Potomac, MD

4:45 159.004 Biomarkers of Abnormal Temporal Gesture-Speech Integration in ASD L. Morett[1], B. A. Coffman[1], Y. Li[2,3], B. Luna[1] and A. S. Ghuman[1], (1)University of Pittsburgh, Pittsburgh, PA, (2)Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, PA, (3)Department of Neurological Surgery, University of Pittsburgh, Pittsburgh, PA

5:10 Discussant

Panel Session
160 - The Well-Being and Potential Service Needs of Siblings of Youth with Autism Spectrum Disorder
3:30 PM - 5:30 PM - Room 308

Session Chair: M. Tudor, *Stony Brook University, East Setauket, NY*

Discussant: D. G. Sukhodolsky, *Yale Child Study Center, Yale School of Medicine, New Haven, CT*

As the number of youth with an autism spectrum disorder (ASD) diagnoses rises (Kim et al., 2011), the number of youth growing up with a brother or sister with ASD also multiplies. Research attempting to characterize these youth and identify distinctive patterns of their well-being and adjustment has yielded mixed and sometimes contradictory findings (e.g., Orsmond & Seltzer, 2007). This literature often examines the presence of a child with ASD in the family as a sole predictive factor of sibling outcomes, while ignoring other potentially relevant variables (e.g., Hodapp, Glidden, & Kaiser, 2005). This panel will aim to broaden the lens of sibling outcome research by exploring novel predictive factors, such as sibling relationships and maternal psychological functioning, which may inform sibling outcome pathways across families, rather than identify a singular sibling profile. Findings draw from parent and sibling-report in various contexts (e.g., across the lifespan, pre- and post-intervention groups). Ultimately, this panel will provide a framework for this "new wave" of sibling research that allows for a more multifaceted approach to studying both risk and resilience for siblings, as well as providing effective services for the subset of these youth that may be in need of clinical supports.

3:30 160.001 Psychosocial Outcomes Among Adult Siblings of Individuals with ASD and Other Developmental Disorders: Support for Potential Risk/Protective Factors and Points of Intervention T. S. Tomeny[1], L. K. Baker[1], S. W. Eldred[1], J. A. Rankin[1] and T. D. Barry[2], (1)Psychology, The University of Alabama, Tuscaloosa, AL, (2)Psychology, Washington State University, Pullman, WA

3:55 160.002 Enhancing the Sibling Relationship: Outcomes of a Support Group for Brothers and Sisters of Children with Autism M. Coffman[1], A. Muskett[1], R. S. Factor[1], L. Delk[1], A. Trubanova[2], N. Kelso[1], A. Scarpa[3], J. A. Richey[1] and J. M. Wolf[4], (1)Virginia Tech, Blacksburg, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA, (3)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (4)Yale Child Study Center, New Haven, CT

4:20 160.003 Quality of Sibling Relationships When One Child Has ASD: Parent-Child Agreement and Contributions of the Affected Vs. Unaffected Child J. M. Wolf, Yale Child Study Center, New Haven, CT

4:45 160.004 Getting to Know Siblings of Youth with Autism Spectrum Disorder: Family Predictors and Clinical Outcomes M. Tudor[1] and M. D. Lerner[2], (1)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2)Stony Brook University, Stony Brook, NY

5:10 Discussant

Panel Session
161 - From Animal Neurocognitive Trials to Humans: How Do We Find the Most Appropriate Outcome Measures and Trial Designs for Tuberous Sclerosis Complex and Other Genetic Disorders?
3:30 PM - 5:30 PM - Room 309

Session Chair: P. J. de Vries, *Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa*

Discussant: E. Berry-Kravis, *Pediatrics; Biochemistry; Neurological Sciences, Rush University Medical Center, Chicago, IL*

Tuberous Sclerosis Complex (TSC) has become a powerful model to study a range of TSC-associated neuropsychiatric disorders (TAND), including autism spectrum disorder (ASD) and specific neuropsychological deficits. Given the success of mTOR inhibitors to treat SEGA (subependymal giant cell astrocytomas) and renal angiomyolipomas, there has been growing interest in molecularly-targeted treatments of TAND. However, translation from animal trials to humans has not been straightforward in other genetic disorders such as Fragile X and Neurofibromatosis Type 1, in spite of strong pre-clinical findings. In this panel we will discuss translation from pre-clinical to clinical trials to consider possible challenges in this effort. Our first presentation will be a recent pre-clinical study of neurocognition and social behavior in the Tsc2+/- (Eker) rat. Next, we will explore current clinical trials of neurocognition and ASD in TSC and consider what we have learnt along the way. In the third presentation we will examine executive deficits in normally-intelligent adults with TSC to reflect on neuropsychological profiles and the impact of different analysis approaches. In our final talk, we will present a study of resting state EEG as potential biomarker for TSC-associated and non-syndromal ASD.

3:30 161.001 mTOR Inhibitor Reverses Autistic-like Behaviour in Tsc2+/- Rats with Developmental Epilepsy M. Schneider[1], P. J. de Vries[2], K. Schönig[1], V. Rößner[3] and R. Waltereit[3], (1)Central Institute of Mental Health, Mannheim, Germany, (2)Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa, (3)Child & Adolescent Psychiatry, University Hospital Carl Gustav Carus, Dresden, Germany

3:55 161.002 Clinical Investigations in TSC M. Sahin[1], M. Bebin[2], J. Y. Wu[3], H. Northrup[4], A. W. Byars[5], A. Sadhwani[6], K. Kapur[7], P. J. de Vries[8] and D. Krueger[5], (1)Department of Neurology, Boston Children's Hospital, Boston, MA, (2)University of Alabama, Birmingham, AL, (3)UCLA, Los Angeles, CA, (4)University of Texas, Houston, TX, (5)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (6)Boston Children's Hospital, Boston, MA, (7)Neurology, Boston Children's Hospital, Boston, MA, (8)Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

4:20 ▸161.003 Executive Function Deficits in Adults with Tuberous Sclerosis Complex: Implications for Clinical Practice and Clinical Trials L. Leclezio[1], D. L. McCartney[2] and P. J. de Vries[3], (1) Division of Child & Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa, (2)Cancer Research UK Clinical Trials Unit, University of Birmingham, UK, Birmingham, United Kingdom, (3)Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

4:45 ▸161.004 Recurrence Quantification Analysis of Resting State EEG As Risk Biomarker for Non-Syndromal and Syndromal ASD T. M. Heunis[1], C. Aldrich[2], M. Nieuwoudt[1,3], S. S. Jeste[4], M. Sahin[5], J. M. Peters[6] and P. J. de Vries[7], (1)Mechanical and Mechatronic Engineering, Stellenbosch University, Stellenbosch, South Africa, (2)Mining Engineering and Metallurgical Engineering, Western Australian School of Mines, Curtin University, Perth, Australia, (3)South African DST/NRF Centre for Epidemiological Modelling and Analysis (SACEMA), Stellenbosch University, Stellenbosch, South Africa, (4)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (5)Department of Neurology, Boston Children's Hospital, Boston, MA, (6)Division of Epilepsy and Clinical Neurophysiology, Department of Neurology, Boston Children's Hospital, Boston, MA, (7)Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

5:10 Discussant

Panel Session
162 - Biomarker Development in the Era of Rdoc: Common and Distinct Mechanisms of Function and Dysfunction in ASD and Schizophrenia
3:30 PM - 5:30 PM - Room 310

Session Chair: J. McPartland, *Child Study Center, Yale School of Medicine, New Haven, CT*

Discussant: J. McPartland, *Child Study Center, Yale School of Medicine, New Haven, CT*

Autism spectrum disorder (ASD) and schizophrenia spectrum disorders (SZS) are both characterized by atypical social behavior and cognition. Common genetic pathways and neural processes are implicated in both disorders, but few studies have directly compared clinical populations with ASD and SZS. For this reasons, shared and distinct characteristics are poorly understood. This panel presents four studies applying complementary methods at multiple levels of analysis, spanning brain structure to neurophysiology to psychophysiological assessment of behavior to clinical observation and self-report. These novel approaches are applied to converge upon functional processes related to core features of both disorders: social-communication, gaze perception, neural connectivity, and sensory processing. At the level of clinical symptomatology, results concord with behaviorally defined diagnostic categories. In contrast, measures of specific neural mechanisms and functional processes indicate significant overlap in ASD and SZS, aligning with performance at both clinical and subclinical levels rather than diagnostic taxon. Discovery of shared neural bases of phenomenologically distinct disorders holds promise for understanding specific strengths and vulnerabilities and offers straightforward clinical implications. Panel discussion focuses on relevance to a dimensional characterization of neurodevelopmental disorders and its implications for biomarker development in ASD.

3:30 162.001 Common and Distinct Neuroanatomical Abnormalities in Adult ASD and Schizophrenia S. M. Eack[1] and N. J. Minshew[2], (1)School of Social Work, University of Pittsburgh, Pittsburgh, PA, (2)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA

3:55 162.002 Dissociating Visual Correlates of Context Modulation in ASD and Schizophrenia J. H. Foss-Feig[1], B. D. Adkinson[2], W. J. Park[3], E. J. Levy[4], N. Santamauro[5], C. Schleifer[6], K. Deckert[4], V. Srihari[5], J. Krystal[7], D. Tadin[3], J. McPartland[1] and A. Anticevic[5], (1) Child Study Center, Yale School of Medicine, New Haven, CT, (2) Department of Psychiatry, Yale School of Medicine, New Haven, CT, (3)Brain and Cognitive Sciences, University of Rochester, Rochester, NY, (4)Yale Child Study Center, New Haven, CT, (5) Yale University School of Medicine, New Haven, CT, (6)Yale University, New Haven, CT, (7)Yale University - Psychiatry, New Haven, CT

4:20 162.003 Neural Correlates of Emotion Processing during Simulated Social Interactions in Adults with Autism Spectrum Disorder and Schizophrenia K. Deckert[1], J. H. Foss-Feig[2], A. Naples[2], E. J. Levy[1], K. K. Stavropoulos[2], M. Rolison[2], L. Mohamed[1], C. Schleifer[3], N. Santamauro[4], A. Anticevic[4], V. Srihari[4] and J. McPartland[2], (1)Yale Child Study Center, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT, (3)Yale University, New Haven, CT, (4)Yale University School of Medicine, New Haven, CT

4:45 162.004 Comparing Social Skills Between Adults with ASD and Schizophrenia N. J. Sasson[1], K. E. Morrison[2] and A. Pinkham[3], (1) University of Texas at Dallas, Richardson, TX, (2)The University of Texas at Dallas, Dallas, TX, (3)School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

5:10 Discussant

Poster Session
163 - Adult Outcomes: Medical, Cognitive, Behavioral
5:30 PM - 7:00 PM - Hall A

1 163.001 A Mixed Methods Study of Employment Perspectives of Youth and Young Adults on the Autism Spectrum L. A. Crabtree[1] and B. B. Demchick[2], (1)Towson University, Lutherville, MD, (2)Occupational Therapy & Occupational Science, Towson University, Towson, MD

2 163.002 A Statewide Needs Assessment Survey for Adults with Autism Spectrum Disorder L. O'Regan[1], S. Srinivasan[2], S. Trost[1], A. Ekbladh[3], B. Freedman[4,5] and A. N. Bhat[2], (1)Physical Therapy, University of Delaware, Newark, DE, (2)University of Delaware, Newark, DE, (3) Center for Disability Studies, University of Delaware, Newark, DE, (4) University of Delaware Center for Disabilities Studies, Newark, DE, (5) Center for Disabilities Studies, University of Delaware, Newark, DE

3 163.003 ASD and Juvenile Justice Training for Judges, Magistrates and Probation Officers T. Hughes, Counseling, Psychology and Special Education, Duquesne University, Pittsburgh, PA

4 163.004 ASD and Sexuality Education R. L. Loftin, Autism Assessment, Research & Treatment Services Center, Chicago, IL

5 163.005 Adapting the Social Skills Performance Assessment (SSPA) for Assessing Social Skills for Adults with ASD in Vocational Training Settings M. J. Baker-Ericzen[1,2], M. M. Jenkins[1], M. Fitch[3] and M. Kinnear[2], (1)Child and Adolescent Services Research Center, Rady Children's Hospital San Diego, San Diego, CA, (2)Rady Children's Hospital San Diego, San Diego, CA, (3)Child & Adolescent Services Research Center, Rady Children's Hospital, San Diego, San Diego, CA

6 163.006 Adults with ASD in Community Mental Health Settings: Evidence for the Services Cliff B. B. Maddox[1], E. S. Brodkin[2], M. E. Calkins[2], J. Miller[1], K. T. Mullan[2], K. Shea[2] and D. S. Mandell[3], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania School of Medicine, Philadelphia, PA

7 163.007 Age-Related Changes in Processing Speed and Free Recall in Middle-Age and Older Adults with ASD P. S. Powell[1], N. Peyravian[2], A. T. Meyer[3], L. G. Klinger[4] and M. R. Klinger[5], (1)University of North Carolina - Chapel Hill, Chapel Hill, NC, (2)Psychology, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)University of North Carolina, Carrboro, NC, (4)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC

8 163.008 An Analysis of Restricted Interests in Autism Spectrum Disorder with Versus without Speech Onset Delay: The Importance of Perceptually Versus Thematically Organized Interests L. Chiodo[1], S. Majerus[2], S. Eusèbe[2] and L. Mottron, M.D.[3], (1)Université de Liège, 4000 Villers-St-Simeon, Belgium, (2)Université de Liège, Liège, Belgium, (3) Centre d'Excellence en Troubles Envahissants du Développement, Montréal, QC, Canada

9 163.009 Associations Between Compulsive Internet Use and the Autism Spectrum C. Shane-Simpson[1], P. J. Brooks[2], R. Obeid[3], E. G. Denton[4] and K. Gillespie-Lynch[5], (1)The Graduate Center & College of Staten Island, New York, NY, (2)College of Staten Island, Staten Island, NY, (3)CUNY Graduate Center, New York, NY, (4)Psychology, The College of Staten Island, Staten Island, NY, (5)CUNY Graduate Center, Brooklyn, NY

10 163.010 Autism and Sleep: Understanding Insomnia in Adults with Autism Spectrum Disorder M. M. Jenkins and M. J. Baker-Ericzen, Child and Adolescent Services Research Center, Rady Children's Hospital San Diego, San Diego, CA

11 163.011 Autonomic Symptoms Endorsed By Adults with Autism Spectrum Disorders B. K. Woodruff[1], J. Adams[2], M. Temkit[3] and B. Goodman[1], (1)Neurology, Mayo Clinic Arizona, Scottsdale, AZ, (2)Arizona State University, Tempe, AZ, (3)Research Biostatistics, Mayo Clinic Arizona, Scottsdale, AZ

12 ▸ 163.012 Basic Auditory Processing Difficulty in the Youth with Autistic Feature H. Song[1], M. K. Kwon[2] and M. Park[3], (1)Graduate school for the professional therapeutic technology, Seoul Woman's univeristy, Seoul, South Korea, (2)Autism Center of Excellence, University of California, San Diego, La Jolla, CA, (3)Graduate school for the professional therapeutic technology, Seoul Woman's University, Seoul, South Korea

13 163.013 Changes in Social Activities for Youth with Autism Spectrum Disorders during the Transition to Adulthood J. L. Taylor[1], S. L. Bishop[2] and R. Adams[3], (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Department of Psychiatry, University of California San Francisco, San Francisco, CA, (3)Cincinnati Children's Hospital Medical Center, Cincinnati, OH

WITHDRAWN

14 163.014 College Experiences for Students with Autism Spectrum Disorder (ASD): Identity, Disclosure, and Accommodations B. E. Cox[1], A. Anderson[2], J. Edelstein[2] and A. Wolz[2], (1)P.O. Box 3064452, Florida State University, Tallahassee, FL, (2)Florida State University, Tallahassee, FL

15 163.015 College Students› Knowledge and Attitudes Towards Students on the Autism Spectrum: A Five Year Follow-up D. White, A. Hillier, A. Frye and E. Makrez, Psychology, University of Massachusetts Lowell, Lowell, MA

16 163.016 Correlates of Academic Success in College Students with an Autism Spectrum Disorder: Do the Traditional Measures Apply? S. W. Eldred[1], S. M. Ryan[2], L. K. Baker[1] and J. A. Rankin[1], (1)Psychology, The University of Alabama, Tuscaloosa, AL, (2)The University of Alabama, Tuscaloosa, AL

17 163.017 Correlates of Self-Reported Quality of Life in Verbally-Able Young Adults with Autism Spectrum Disorder K. M. Frost[1], L. A. Pepa[2], K. Gotham[3] and C. Lord[4], (1)Center For Autism and the Developing Brain, White Plains, NY, (2)Rutgers University, Smithtown, NY, (3) Vanderbilt University, Nashville, TN, (4)Weill Cornell Medical College, White Plains, NY

18 163.018 Depression and Anxiety in the Aging ASD Cohort: Relationships with Cognition and Social Networks B. B. Braden[1], C. J. Smith[2], T. Glaspy[1], A. M. Thompson[1], B. R. Deatherage[1], E. Wood[1], D. Vatsa[1] and L. Baxter[1], (1)Barrow Neurological Institute, Phoenix, AZ, (2) Southwest Autism Research & Resource Center, Phoenix, AZ

19 163.019 Determining Sex Differences in the Social Cognition of Adults with High-Functioning Autism Spectrum Disorder Using Advanced Mindreading Tasks M. Kuroda[1,2] and Y. Kawakubo[3], (1)Graduate School of Education, The University of Tokyo, Tokyo, Japan, (2)Child Mental Health-care Center, Fukushima University, Fukushima-shi, Japan, (3) University of Tokyo, Bunkyo-ku, Japan

20 163.020 Do College Students with ASD Face Specific Challenges Navigating Job Interviews Relative to Students with Other Disabilities and Students without Disabilities? D. Bublitz[1], K. Fitzgerald[1], M. Alarcon[2], J. D'Onofrio[3] and K. Gillespie-Lynch[1], (1)City University of New York, College of Staten Island, Staten Island, NY, (2)City University of New York, Brooklyn College, Brooklyn, NY, (3)Center for Student Accessibility, City University of New York, College of Staten Island, Staten Island, NY

21 163.021 Does Baseline Physiological Arousal Influence Inhibitory Control in Adults with Autism Spectrum Disorder? M. Kuiper[1], L. Verhoeven[2] and H. M. Geurts[3], (1)Research, Development & Innovation (RD&I); Brain & Cognition, Dr. Leo Kannerhuis; University of Amsterdam, Doorwerth, Netherlands, (2)Dr. Leo Kannerhuis, Doorwerth, Netherlands, (3)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam; Dr. Leo Kannerhuis, Amsterdam, Netherlands

22 ▸ 163.022 Early Adult Outcomes of High-Functioning Children with Autism Spectrum Disorder (ASD) in Hong Kong P. W. Leung and R. Poon, Psychology, The Chinese University of Hong Kong, Hong Kong, China

23 163.023 Effects of Internalizing Problems on Daily Living Skills Among High-Functioning Adults with Autism Spectrum Disorders in Japan M. Tsujii[1], Y. Murayama[2] and K. Suzuki[3], (1)Chukyo University, Toyota, Aichi, Japan, (2)Hamamatsu University School of Medicine, Nagoya-shi, Aichi, Japan, (3)Department of Psychiatry, Hamamatsu University School of Medicine, Hamamatsu, Japan

24 163.024 Emotional Suppression Moderates the Relationship Between Autistic Traits and Physiological and Cognitive Responses to Acute Social Stress in a Healthy Adult Sample S. N. Bostan and C. Mohiyeddini, Department of Applied Psychology, Northeastern University, Boston, MA

25 163.025 Employment for Adults with Autism Spectrum Disorders: A Retrospective Review of a Customized Employment Approach S. Carr, Research, Rehabilitation and Training Center, Virginia Commonwealth University, Richmond, VA; Virginia Commonwealth University, Virginia Commonwealth University, Richmond, VA

26 163.026 Environmental Factors Impacting Work Satisfaction and Performance in Adults with Autism Spectrum Disorders B. A. Pfeiffer, Rehabilitation Sciences, Temple University, Philadelphia, PA

27 163.027 Exploring the Association Between Autistic Traits and Executive Function Among Typically Developing Adults N. Albein-Urios, S. Kaur Girn, A. Beirne, C. Davies, M. Kirkovski and P. Enticott, Deakin University, Melbourne, VIC, Australia

28 163.028 Exploring the Prevalence and Predictors of Depression in Young Adults with Autism Spectrum Disorders V. Hallett[1], T. Charman[2], J. Briskman[3], R. Kent[2], S. Lukito[3], F. Khalid[2] and E. Simonoff[2], (1)South London and the Maudsley NHS Foundation Trust, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Child & Adolescent Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

29 163.029 Factors Influencing Healthcare Satisfaction in Adults with Autism Spectrum Disorder A. H. Gerber[1], C. McCormick[1,2], T. P. Levine[2], E. M. Morrow[1,3], T. F. Anders[1] and S. J. Sheinkopf[1,4], (1)Rhode Island Consortium for Autism Research and Treatment (RI-CART), Bradley Hospital, East Providence, RI, (2)Brown Center for the Study of Children at Risk, Women & Infants Hospital The Warren Alpert Medical School of Brown University, Providence, RI, (3)Department of Molecular Biology, Cell Biology and Biochemistry and Institute for Brain Science, Brown University, Providence, RI, (4)Brown Center for the Study of Children at Risk, Women & Infants Hospital, Providence, RI

30 163.030 Feasibility of a Systematic Outcomes Assessment Protocol for Adults with ASD Participating in Community-Based Programs A. C. Jozkowski[1], K. P. Wilson[2], G. Chasson[3], K. Hoer[1], A. Focazio[1], B. Finklestein[1] and A. Grant[1], (1)Occupational Therapy & Occupational Science, Towson University, Towson, MD, (2)Department of Audiology, Speech-Language Pathology, and Deaf Studies, Towson University, Towson, MD, (3)Department of Psychology, Towson University, Towson, MD

31 163.031 Gender Differences in Adult Outcomes for Individuals Diagnosed with ASD in Childhood W. T. Brooks[1], L. G. Klinger[1], E. M. Lamarche[2], J. L. Mussey[3] and M. R. Klinger[4], (1)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC

32 163.032 Gender Variance in Men and Women with Autism M. C. Lai[1,2,3], A. N. Ruigrok[4], A. S. Baron[5], M. V. Lombardo[1,6], B. Chakrabarti[4,7], S. H. Ameis[3], P. Szatmari[3], K. J. Zucker[8] and S. Baron-Cohen[1,9], (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)Centre for Addiction and Mental Health, The Hospital for Sick Children, and Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (4)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (5)Department of Psychology, University of British Columbia, Vancouver, BC, Canada, (6)Department of Psychology and Center for Applied Neuroscience, University of Cyprus, Nikosia, Cyprus, (7)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom, (8)Centre for Addiction and Mental Health, Toronto, ON, Canada, (9)Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom

33 163.033 How Do You Feel about Driving? Development of the Scale for Apprehensive Driving to Measure Driving-Related Attitudes in Novice Drivers V. Ross[1], D. J. Cox[2], R. E. Reeve[3], T. Brown[4], M. Moncrief[2], R. A. Schmitt[5] and G. Gaffney[4], (1)Hasselt University, Diepenbeek, Limburg, Belgium, (2)University of Virginia, Charlottesville, VA, (3)University of Virginia, Earlysville, VA, (4)University of Iowa, Iowa City, IA, (5)National Advanced Driving Simulator, University of Iowa, Iowa City, IA

34 163.034 Identifying and Addressing the Concerns of College Students with Autism J. Edelstein[1], B. E. Cox[2], A. Wolz[1] and A. Anderson[1], (1)Florida State University, Tallahassee, FL, (2)P.O. Box 3064452, Florida State University, Tallahassee, FL

35 163.035 Implicit Vs Explicit Attitudes Towards Individuals with Autism J. Zeman[1], C. Dickter[2], J. Burk[2] and J. A. Kittel[1], (1)College of William and Mary, Williamsburg, VA, (2)College of William & Mary, Williamsburg, VA

36 163.036 In Their Own Words: The Experiences of Young Adults with High-Functioning Autism/Asperger›s Syndrome Attending College or University R. Nirmal, Psychology, BC Children's Hospital, Vancouver, BC, Canada

37 163.037 Life-Skills Coaching Reduces Anxiety Around Goals and Improves Functional Skills Among Adults on the Autism Spectrum A. Hillier[1], N. Poto[2], A. Frye[1] and M. Santangelo[1], (1)Psychology, University of Massachusetts Lowell, Lowell, MA, (2)Autism/Aspergers Network (AANE), Watertown, MA

38 163.038 Longitudinal Age-Related Impairments in Processing Speed, Anxiety, and Adaptive Functioning from Childhood to Adulthood in Individuals with Autism J. E. Lainhart[1], K. L. Kane[2], M. D. Prigge[3], D. P. Samsin[1], B. G. Travers[4], A. Freeman[1], N. Lange[5], E. D. Bigler[6] and A. L. Alexander[1], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)ISLA, Waisman Center, UW-Madison, Madison, WI, (3) Pediatrics, University of Utah, Salt Lake City, UT, (4)Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI, (5)McLean Hospital, Cambridge, MA, (6)Psychology/Neuroscience Center, Brigham Young University, Provo, UT

39 163.039 Medical Care Utilization and Costs Among Transition-Age Young Adult Medicare Beneficiaries with Autism Spectrum Disorder T. W. Benevides[1], H. J. Carretta[2] and K. Graves[3], (1)Thomas Jefferson University, Philadelphia, PA, (2)Florida State University College of Medicine, Tallahassee, FL, (3)College of Medicine, Florida State University, Tallahassee, FL

40 163.040 Multicausal Systems Ask for Multicausal Approaches: A Network Perspective on Subjective Well-Being in Individuals with ASD M. K. Deserno[1], D. Borsboom[2], S. Begeer[3] and H. M. Geurts[1], (1)Dutch Autism & ADHD research center (d'Arc) Dept of Psychology, Brain and Cognition, University of Amsterdam; Dr. Leo Kannerhuis, Amsterdam, Netherlands, (2)Department of Psychology, University of Amsterdam, Amsterdam, Netherlands, (3)VU University Amsterdam, Amsterdam, Netherlands

41 163.041 Narratives of College Life from the Perspectives of Students with ASD and ADHD Y. Bolourian[1], S. M. Zeedyk[2] and J. Blacher[1], (1)University of California - Riverside, Riverside, CA, (2)Child and Adolescent Services Research Center, University of California, San Diego, San Diego, CA

42 163.042 National Autism Indicators Report 2016: Vocational Rehabilitation Services and Outcomes A. Roux[1], J. Rast[2], P. Shattuck[3] and K. A. Anderson[4], (1)3020 Market St., Ste 560, A.J. Drexel Autism Institute, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Philadelphia, PA, (3)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (4) AJ Drexel Autism Institute, Philadelphia, PA

43 163.043 Parent-Child Sexuality Communication for Adolescent Girls with ASD L. Graham Holmes[1], M. B. Himle[2], D. S. Strassberg[2] and A. Gillespie[2], (1)University of Utah, Salt Lake City, UT, (2)Department of Psychology, University of Utah, Salt Lake City, UT

44 163.044 Pay Attention during the Important Part: Adults with ASD Increase Their Gaze to Faces When Watching Richer Social Scenes A. Pallathra[1], L. Perez[1], A. Lee[1], R. T. Schultz[2], E. S. Brodkin[1] and J. Parish-Morris[3], (1)University of Pennsylvania, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

45 163.045 Perception of Life As Stressful, Not Biological Response to Stress, Predicts Greater Social Disability in Adults with Autism Spectrum Disorder L. Bishop-Fitzpatrick[1], C. A. Mazefsky[2], N. J. Minshew[2] and S. M. Eack[3], (1)Waisman Center, University of Wisconsin - Madison, Madison, WI, (2)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (3)School of Social Work, University of Pittsburgh, Pittsburgh, PA

46 163.046 Prevalence and Predictors of Anxiety Disorders in Adolescent and Adult Males with Autism Spectrum Disorder and Fragile X Syndrome J. Ezell[1], S. McGrath[1], S. O'Connor[1], L. Abbeduto[2] and J. Roberts[3], (1)University of South Carolina, Columbia, SC, (2)MIND Institute, UC Davis, Sacramento, CA, (3)Psychology, University of South Carolina, Columbia, SC

47 163.047 Real-World Executive Functions in Adults with Autism Spectrum Disorder: Profiles of Impairment and Associations with Adaptive Functioning and Co-Morbid Anxiety and Depression L. Kenworthy[1], C. E. Pugliese[2], H. S. Popal[3], E. I. White[3], J. F. Strang[4], A. Martin[3] and G. Wallace[5], (1)Children's Research Institute, Children's National Medical Center, Rockville, MD, (2)Children's National Medical Center, Rockville, MD, (3)NIMH, Bethesda, MD, (4)Children's National Medical Center, Silver Spring, MD, (5)The George Washington University, Washington, DC

48 163.048 Results of an Autism Screening Study Among Adults Receiving Community Mental Health Services D. S. Mandell[1], J. Miller[2], E. S. Brodkin[3], M. E. Calkins[3], K. Shea[3], K. T. Mullan[3], B. B. Maddox[2], S. 2. Marcus[3] and T. M. Moore[4], (1)University of Pennsylvania School of Medicine, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)Psychiatry, University of Pennsylvania, Philadelphia, PA

49 163.049 Seeking Safe Spaces: Autistic Students Finding Places to be Themselves on College Campuses A. Wolz[1], B. E. Cox[2], A. Anderson[1] and J. Edelstein[1], (1)Florida State University, Tallahassee, FL, (2)P.O. Box 3064452, Florida State University, Tallahassee, FL

50 163.050 Skilled Jobs for People with ASC Successful Dual Vocational Training and Job Placement in Germany M. Dalferth, OTH Regensburg, University of Applied Sciences, Regensburg, Germany

51 163.051 Student-Professor Relationships and Needs Among University Students with ASD or ADHD: Student and Professor Perspectives S. M. Zeedyk[1], Y. Bolourian[2] and J. Blacher[2], (1)Psychiatry, University of California, San Diego, San Diego, CA, (2)University of California - Riverside, Riverside, CA

52 163.052 Support Systems for Students with Autism Spectrum Disorder during Their Transition to Higher Education: A Qualitative Analysis of Online Discussions A. Anderson[1], B. E. Cox[2], A. Wolz[1] and J. Edelstein[1], (1)Florida State University, Tallahassee, FL, (2)P.O. Box 3064452, Florida State University, Tallahassee, FL

53 163.053 Supported Employment, Comprehensive Cognitive Enhancement and Social Skills (SUCCESS) Program for Adults with ASD: Who, What, Where, When and How Plus Outcomes M. J. Baker-Ericzen[1], M. Fitch[2], M. Kinnear[3] and M. M. Jenkins[1], (1)Child and Adolescent Services Research Center, Rady Children's Hospital San Diego, San Diego, CA, (2)Child & Adolescent Services Research Center, Rady Children's Hospital, San Diego, San Diego, CA, (3)Rady Children's Hospital San Diego, San Diego, CA

54 163.054 The ADOS-2 in Adult Community Mental Health Settings J. Miller[1], E. S. Brodkin[2], M. E. Calkins[2], B. B. Maddox[1], K. T. Mullan[2], K. Shea[2] and D. S. Mandell[3], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania School of Medicine, Philadelphia, PA

55 163.055 The Economic Cost of Adults with Autism Spectrum Disorder on Households J. Shannon, A. Arrieta, B. C. Amick and T. Page, Health Policy and Management, Florida International University, Miami, FL

56 163.056 The Effect of Diaphragmatic Breathing on Stress Caused By a Socially Stressful Paradigm on Young Adult Males with Autism Spectrum Disorder T. Kozikowski[1], R. M. Mizrahi[2], A. Herndon[1], S. Neumann[3], K. Hartmann[1] and M. Urbano[1], (1)Eastern Virginia Medical School, Norfolk, VA, (2)Psychological and Brain Sciences, University of Massachusetts, Amherst, MA, (3)Psychiatry, Eastern Virginia Medical School, Norfolk, VA

57 163.057 The Effects of Employment on Mental Health and Executive Functions in Adults with Autism Spectrum Disorder (ASD) L. Dockery[1] and E. L. Hill[2], (1)Lewisham Way, New Cross, Goldsmiths, University of London, London, United Kingdom, (2)Goldsmiths, University of London, London, United Kingdom

58 163.058 The Impact of Postsecondary Education on Employment for Young Adults with Autism Spectrum Disorders B. Freedman[1], S. Pi[2] and J. C. Lee[1], (1)Center for Disabilities Studies, University of Delaware, Newark, DE, (2)Department of Counseling, Educational Psychology and Special Education, Michigan State University, East Lansing, MI

59 163.059 The Relationship Between ASD Symptoms and Adjustment to College S. M. Ryan[1], L. K. Baker[2], S. W. Eldred[2] and J. A. Rankin[3], (1)The University of Alabama, Tuscaloosa, AL, (2)Psychology, The University of Alabama, Tuscaloosa, AL, (3)Stony Book University, Stony Brook, NY

60 163.060 The Relationship Between Habitual Emotion Regulation, Anxiety, and Depression in Adolescents and Young Adults on the Autism Spectrum R. Y. Cai[1,2], M. Uljarevic[1,3] and A. L. Richdale[1,2], (1)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (2)Olga Tennison Autism Research Centre, Melbourne, Australia, (3) Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia

61 163.061 The Transition to the Adult Health Care System Among Adolescents with Autism Spectrum Disorder R. A. Nathenson[1] and B. Zablotsky[2], (1)University of Pennslyvania, Philadelphia, PA, (2)National Center for Health Statistics, Hyattsville, MD

62 163.062 Underlying Mechanisms of Deficient Social Problem-Solving Abilities in Adults with High-Functioning Autism: Exploring the Roles of Alexithymia, Emotion Dysregulation, and Executive Dysfunction S. L. Jackson[1], B. Dritschel[2] and F. R. Volkmar[3], (1)School of Psychology & Neuroscience, University of St Andrews, St. Andrews, United Kingdom, (2)School of Psychology & Neuroscience, University of St Andrews, St Andrews, United Kingdom, (3)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

63 163.063 Untended Wounds: The Unexplored Problem of Non-Suicidal Self-Injury in Adults with ASD B. B. Maddox[1], A. Trubanova[2] and S. W. White[2], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA

64 163.064 Well-Being on the Autism Spectrum: Relationships Between Identity, Stigma, Self-Esteem, and Quality of Life T. A. M. McDonald, University of Wisconsin- Madison, Atlanta, GA

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65 164.065 Acoustic Predictors of Trained and Naive Rater Impressions of Speech Qualities in ASD I. M. Eigsti, J. Mayo and E. Schoen Simmons, Psychological Sciences, University of Connecticut, Storrs, CT

66 164.066 Analyzing Discourse Patterns of Young Adults with ASD C. O. Alm[1], E. T. Prud'hommeaux[2] and B. Meyers[1], (1)Rochester Institute of Technology, Rochester, NY, (2)OHSU, Beaverton, OR

67 164.067 Are There Phonological Consequences of Auditory Processing Differences in Autism Spectrum Disorder? Evidence from Phonological Categorization Tasks B. Castelluccio[1], A. Canfield[2], J. Green[2], A. Hogstrom[2], E. Kapnoula[3], B. McMurray[4], J. Edwards[5] and I. M. Eigsti[1], (1)Psychology, University of Connecticut, Storrs, CT, (2) Psychological Sciences, University of Connecticut, Storrs, CT, (3) Psychological and Brain Sciences, University of Iowa, Iowa City, IA, (4) Psychology, University of Iowa, Iowa City, IA, (5)Communication Sciences and Disorders, University of Wisconsin, Madison, WI

68 164.068 Assessing the Relationship Between Verbal Ability and Problem Behavior Among Children with Autism Spectrum Disorder K. A. Smith[1,2], A. Stedman[1] and M. Siegel[3], (1)Maine Medical Center Research Institute, Portland, ME, (2)Tufts University School of Medicine, Boston, MA, (3)Maine Medical Center Research Institute - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME

69 164.069 Association of Atypical Communication Characteristics with Psychiatric, Social, and Academic Functioning in Clinic-Referred Children with and without Autism Spectrum Disorder E. Kang, M. D. Lerner and K. D. Gadow, Stony Brook University, Stony Brook, NY

70 164.070 Attempt of Training Basic-Set of Communication with Small Humanoid Robot for Autism Spectrum Disorder T. Onishi[1], Y. Yoshikawa[2], H. Kumazaki[3], Y. Matsumoto[4] and H. Ishiguro[2], (1)Center for Special Needs Education, Nara University of Teacher Education, Nara, Japan, (2)Osaka University / JST ERATO, Osaka, Japan, (3)University of Fukui Research Center for Child Development, Yoshida-gun, Japan, (4)National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan

71 164.071 Auditory Responding to Joint Attention Skills and Language in Toddlers with Autism, Other Developmental Difficulties, and Typical Development S. E. Vogt, R. Bakeman, K. Suma and L. B. Adamson, Psychology, Georgia State University, Atlanta, GA

72 164.072 Autism Severity and Language Improvements Using a Social Engagement Intervention for Toddlers with ASD A. Barrett[1], T. Vernon[1], A. Navab[2], J. Ko[3], J. Bradshaw[4], E. J. Horowitz[1], T. German[1] and R. L. Koegel[1], (1)University of California, Santa Barbara, Santa Barbara, CA, (2)University of California Santa Barbara, Los Angeles, CA, (3)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA, (4)Marcus Autism Center, Emory University, Atlanta, GA

73 164.073 Can Children with ASD Learn Language through Overhearing? R. Luyster[1] and S. Arunachalam[2], (1)Communication Sciences and Disorders, Emerson College, Boston, MA, (2)Dept. of Speech, Language & Hearing Sciences, Boston University, Boston, MA

74 164.074 Changes in Parenting Stress As a Predictor of Treatment Outcome D. Swain[1], G. W. Gengoux[2], M. B. Minjarez[3], A. Y. Hardan[4] and A. Scarpa[5], (1)Virginia Tech, Blacksburg, VA, (2)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, (3) Seattle Children's Hospital, Seattle, WA, (4)Stanford University, Stanford, CA, (5)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA

75 164.075 Comparing Structural and Pragmatic Language Abilities in Subgroups of ASD Children with and without Comorbid Intellectual Disability A. Whitten[1] and J. W. Bodfish[2], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt University School of Medicine, Nashville, TN

76 164.076 Comparison of Two Speech Therapies for Minimally Verbal Children with Autism K. V. Chenausky[1,2] and G. Schlaug[3], (1) Neurology, Beth Israel-Deaconess Medical Center, Boston, MA, (2)Brain and Psychological Sciences, Boston University, Boston, MA, (3)Beth Israel Deaconess Medical Center, Boston, MA

77 ▸ 164.077 Family Experiences in Bilingual Children with Autism Spectrum Disorder (ASD) K. Jalalian[1], K. Oshiro[2], M. Lorch[3], S. J. J. Webb[4], N. Navot[4], S. Ghods[5], S. Corrigan[6] and K. Toth[6], (1)Seattle Children's Research Institute, Auburn, WA, (2)University of Washington Autism Center, Seattle, WA, (3)Birkbeck, University of London, London, United Kingdom, (4)University of Washington, Seattle, WA, (5)Seattle Children's Research Institute, Issaquah, WA, (6)Seattle Children's Research Institute, Seattle, WA

78 164.078 Differences in Caregiver Behaviors of Infants at Risk for Developing Autism and Typically Developing Infants during an Object Sharing Paradigm S. Srinivasan[1], T. Nguyen[2], M. Hoffman[2], A. Dinar[2], M. Pugliese[2], M. Kaur[1] and A. N. Bhat[1], (1)University of Delaware, Newark, DE, (2)Physical Therapy, University of Delaware, Newark, DE

79 164.079 Discourse Marker Usage in School-Aged Children with ASD and ADHD in a Virtual, Public Speaking Task N. S. Alpers-Leon[1], L. Naigles[2], N. S. McIntyre[3] and P. C. Mundy[4], (1)University of Connecticut, Vernon, CT, (2)University of Connecticut, Storrs, CT, (3)University of California at Davis MIND Institute, Davis, CA, (4)Education and Psychiatry, University of California at Davis, Sacramento, CA

80 164.080 Discrimination of Non-Native Speech Pitch and Autistic Traits in Non-Clinical Population L. S. Iao[1], A. Wippich[1], G. Y. H. Lam[2] and C. K. S. To[3], (1)Division of Psychology, Nottingham Trent University, Nottingham, United Kingdom, (2)School Psychology Program, Department of Educational and Psychological Studies, University of South Florida, Tampa, FL, (3)University of Hong Kong, Hong Kong, Hong Kong

81 164.081 Disfluencies Distinguish the Speech of Children with Autism Spectrum Disorder M. Santulli[1], J. Parish-Morris[2], E. F. Ferguson[2], L. Bateman[2], R. T. Schultz[3] and J. G. Donaher[4], (1)Temple University, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Childhood Communication and the Department of Speech-Language Pathology, Children's Hospital of Philadelphia, Philadelphia, PA

82 164.082 Empirical Support for a Transactional Model of Spoken Language Acquisition in Preschoolers with Autism Spectrum Disorder T. Woynaroski[1], P. J. Yoder[2] and L. R. Watson[3], (1)Vanderbilt University, Thompsons Stn, TN, (2)Vanderbilt University, Nashville, TN, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC

83 ▸ 164.083 Evaluating the Utility of Narratives in Assessing Language Abilities of Bilingual Children with Autism Spectrum Disorders S. B. Vanegas and K. Acharya, University of Illinois at Chicago, Chicago, IL

84 164.084 Examination of Script-Based and Non-Script Based Narrative Retellings in Children with Autism Spectrum Disorder E. Hilvert[1], D. Davidson[2] and P. B. Gámez[1], (1)Psychology, Loyola University Chicago, Chicago, IL, (2)Loyola University Chicago, Chicago, IL

85 164.085 Eye Movement during Reading and Answering Inferential Questions in High-Functioning Autism: Strategies and Cognitive Components M. Micai[1], H. Joseph[2], M. Vulchanova[3] and D. Saldana[1], (1) Department of Developmental and Educational Psychology, University of Seville, Seville, Spain, (2)Department of Psychology, Oxford Brookes University, Oxford, United Kingdom, (3)Department of Language and Literature, NTNU, Trondheim, Norway

86 164.086 Contextual and Visual Cues in the Interpretation of Idioms in High Functioning Autism S. Chahboun[1], V. Vulchanov[1], B. Sullivan[2], D. Saldana[3], H. Eshuis[1] and M. Vulchanova[1], (1)Department of Language and Literature, NTNU, Trondheim, Norway, (2)Tobii Company, Stockholm, Sweden, (3)University of Seville, Seville, Spain

87 164.087 Family Matters: Children and Adolescents with ASD Talk More about Family Than Friends L. Bateman[1], E. F. Ferguson[1], K. J. Payton[1], R. T. Schultz[2] and J. Parish-Morris[1], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

88 164.088 Fathers› and Mothers› Responsiveness and Broad Autism Phenotype Characteristics and the Language Skills of Children with ASD M. Flippin[1] and L. R. Watson[2], (1)Communicative Disorders, University of Rhode Island, Kingston, RI, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC

89 164.089 Gesture Development from 9 to 24 Months in Infants with Fragile X Syndrome, Infant Siblings of Children with Autism and Typically Developing Infants L. Rague[1], K. E. Caravella[2], J. Klusek[2] and J. Roberts[1], (1)Psychology, University of South Carolina, Columbia, SC, (2)University of South Carolina, Columbia, SC

90 164.090 Idioms As a Measure of Pragmatic Language Abilities in Adolescents with Autism Spectrum Disorders **A. Canfield** and I. M. Eigsti, University of Connecticut, Storrs, CT

92 164.092 Joint Attention and Language in Children with ASD and Typical Development E. F. Geib[1], K. J. Hamilton[1,2] and B. Wilson[1], (1) Clinical Psychology, Seattle Pacific University, Seattle, WA, (2)Seattle Pacific University, Seattle, WA

93 164.093 Language Abilities at the Age of 36 Months in Children at Risk for Autism Spectrum Disorder E. Bruyneel, P. Warreyn, E. Demurie, M. Dereu, S. Van der Paelt and H. Roeyers, Ghent University, Ghent, Belgium

94 164.094 Linking Language: Characterizing Developmental Traits in Preschoolers with ASD K. Berry[1], J. Panganiban[2], W. I. Shih[3] and C. Kasari[4], (1)UCLA, Los Angeles, CA, (2)University of California Los Angeles, Arcadia, CA, (3)UCLA, Monrovia, CA, (4)University of California Los Angeles, Los Angeles, CA

95 164.095 Longitudinal Predictors of Receptive and Expressive Language Outcomes at 6 Years in Younger Siblings of Children with ASD R. Landa[1] and K. J. Greenslade[2], (1)The Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD

96 164.096 Longitudinal, Cross-Modal Associations Appear to Differ in Typically Developing Toddlers As Compared to Children with ASD K. Bottema-Beutel[1], T. Woynaroski[2] and P. J. Yoder[3], (1)Lynch School of Education, Boston College, Chestnut Hill, MA, (2)Vanderbilt University, Thompsons Stn, TN, (3)Vanderbilt University, Nashville, TN

97 164.097 The Relationship Between Joint Attention and Language in Autism Spectrum Disorder and Typical Development: A Systematic Review and Meta-Regression Analysis K. Bottema-Beutel, Lynch School of Education, Boston College, Chestnut Hill, MA

98 164.098 Mobile Technology Usage By the Other Numbers: User Analytics for Assessing and Justifying Implementation of Mobile Applications M. G. Zentner, Information Technology, Purdue University, West Lafayette, IN

99 ▸ 164.099 Multilingual Language Environments and ASD: Relationships Between Amount of Language Exposure and Language Proficiency A. M. Gonzalez Barrero and A. Nadig, McGill University, Montreal, QC, Canada

100 164.100 Neologisms: A Case Study N. N. Soja[1], M. S. Goodwin[2] and L. Naigles[3], (1)Health Sciences, Northeastern University, Boston, MA, (2)Northeastern University, Boston, MA, (3)University of Connecticut, Storrs, CT

101 164.101 Predictors of Pragmatic Language Functioning in Younger Siblings of Children with Asdpredictors of Pragmatic Language Functioning in Younger Siblings of Children with ASD K. J. Greenslade[1] and R. Landa[2], (1)Kennedy Krieger Institute, Baltimore, MD, (2)The Kennedy Krieger Institute, Baltimore, MD

102 164.102 Profiles of Pragmatic Language in Individuals with ASD and Their Parents **L. Bush**[1], M. Lee[1], N. M. Heckel[1], A. Taylor[1], A. L. Hogan-Brown[2], G. E. Martin[3] and M. Losh[4], (1)Northwestern University, Evanston, IL, (2)Psychology, University of South Carolina, Columbia, SC, (3)Communication Sciences and Disorders, St. John's University, Staten Island, NY, (4)Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL

103 164.103 Pronoun Interpretation Problems in Primary School-Aged Children with Autism Spectrum Disorder **J. Overweg**[1], C. A. Hartman[2] and P. Hendriks[1], (1)University of Groningen, Groningen, Netherlands, (2)University of Groningen and University Medical Center Groningen, Groningen, Netherlands

104 164.104 Psychometric Properties, Classification, and Clinical Correlates of the Children›s Communication Checklist – 2nd Edition in Autism Spectrum Disorder **J. Parish-Morris**[1], A. de Marchena[1], L. M. DePolo[1], L. Bateman[1], E. F. Ferguson[1], K. J. Payton[1] and R. T. Schultz[2], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

105 164.105 Rapid Automatized Naming As a Marker of Genetic Liability to Autism: An Eye Tracking Study **K. Nayar**[1], A. L. Hogan-Brown[2], C. La Valle[3], W. McKinney[3], P. C. Gordon[4], G. E. Martin[5], E. Norton[3] and M. Losh[3], (1)Northwestern University, Chicago, IL, (2)Psychology, University of South Carolina, Columbia, SC, (3)Northwestern University, Evanston, IL, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Communication Sciences and Disorders, St. John's University, Staten Island, NY

106 164.106 Relations Among Parent-Reported and Spontaneous Gestures, Fine Motor, and Language in Young Children with ASD: A Structural Equation Model Approach **D. L. Mead**[1], S. S. Manwaring[2], L. B. Swineford[1] and A. Thurm[1], (1)Pediatrics and Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (2)University of Utah, Salt Lake City, UT

107 164.107 Relations Between Computerized LENA Recordings of Conversational Turns and Lab-Based Measures of Social Engagement in Children with Autism Spectrum Disorder **M. Sabatos-DeVito**, E. Paisley, C. H. Stoute, J. Newman, K. S. Davlantis and G. Dawson, Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC

108 164.108 Sensitivity to Audio-Visual Synchrony and Its Relation to Language Abilities in Children with ASD **G. Righi**[1], E. Tenenbaum[2], D. Amso[3] and S. J. Sheinkopf[4], (1)Alpert Medical School of Brown University, rumford, RI, (2)Brown Center for the Study of Children at Risk at Women and Infants Hospital, Providence, RI, (3)Cognitive, Linguistic, and Psychological Sciences, Brown University, Providence, RI, (4)Brown Center for the Study of Children at Risk, Women & Infants Hospital The Warren Alpert Medical School of Brown University, Providence, RI

109 164.109 Sensitivity to Subtle Changes: A Signal Detection Analysis of Memory for Faces, Objects, and Spoken Words in ASD **A. Hogstrom**, J. Green, A. Canfield, B. Castelluccio, M. Smith and I. M. Eigsti, Psychological Sciences, University of Connecticut, Storrs, CT

110 164.110 Single Word Semantic Priming in High Functioning Individuals with Autistic Spectrum Disorders **H. Sharir**[1], D. Anaki[2] and E. Dromi[3], (1)Special Education, Tel-Aviv University, Tel-Aviv, Israel, (2)Psychology, Bar-Ilan University, Givat Shmuel, Israel, (3)Tel Aviv University, Tel Aviv, Israel

111 164.111 Social-Communication Outcomes in Preschoolers Identified As at-Risk for ASD at 12 Months **S. W. Nowell**[1], L. R. Watson[2] and L. Turner-Brown[3], (1)UNC-Chapel Hill, Chapel Hill, NC, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

112 164.112 Specific Language Impairment in ASD: Exploring Language Phenotypes Beyond Standardized Testing **K. Wittke**[1], A. M. Mastergeorge[2], S. Ozonoff[3], S. J. Rogers[4] and L. Naigles[1], (1)University of Connecticut, Storrs, CT, (2)University of Arizona, Tucson, AZ, (3)UC Davis MIND Institute, Sacramento, CA, (4)University of California at Davis, Sacramento, CA

113 164.113 Speech Acts during Spontaneous Peer Conversation in ASD and Typical Development **N. Bauminger-Zviely**[1] and A. Golan Itschaky[2], (1)Bar-Ilan University, Ramat Gan, Israel, (2)School of Education, Bar Ilan University, Ramat Gan, Israel

114 164.114 Spontaneous Expressive Language Impairments in Clinic Referred Children for a Possible ASD **S. H. Kim**[1] and C. Lord[2], (1)Yale Child Study Center, New Haven, CT, (2)Weill Cornell Medical College, White Plains, NY

115 164.115 Testing Auditory Brainstem Responses in Low-Functioning Children with ASD **Z. Johnson**[1], M. Spriegel[2], D. A. Fein[3], E. Skoe[2] and L. Naigles[4], (1)Psychological Sciences, University of Connecticut, Storrs, CT, (2)Speech Language Hearing Sciences, University of Connecticut, Storrs, CT, (3)Psychology, University of Connecticut, Storrs, CT, (4)University of Connecticut, Storrs, CT

116 164.116 The Discrepancy Between Receptive and Expressive Vocabulary in Preschoolers with ASD **P. J. Yoder**[1], L. R. Watson[2] and T. Woynaroski[3], (1)Vanderbilt University, Nashville, TN, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Vanderbilt University, Thompsons Stn, TN

117 164.117 The Early Language Environment and 9 Month "Hyper-Vocalizing" in Infants at Risk for Autism **M. R. Swanson**[1], B. Boyd[1], M. D. Shen[1], S. J. Paterson[2], J. C. Chappell[1], J. Pandey[3], J. Parish-Morris[4], R. Emerson[1], A. M. Estes[5], H. C. Hazlett[6], K. Botteron[7], R. T. Schultz[8], S. Dager[9], J. Piven[1] and .. The IBIS Network[1], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Department of psychology, Temple university, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)University of Washington Autism Center, Seattle, WA, (6)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (7)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (8)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)University of Washington School of Medicine, Seattle, WA

118 164.118 The Problems with "Look, Don›t Touch": Designing Robots to Maximally Benefit Young Children with ASD **L. Boccanfuso**[1], L. Chen[2], C. Torres[3], B. Hudik[4], J. C. Snider[5], M. Sanfilippo[6], P. E. Ventola[7], K. Chawarska[1], J. M. O'Kane[8], B. Scassellati[4] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2) Mt. Holyoke College, South Hadley, MA, (3)Computer Science, Duke University, Durham, NC, (4)Yale University, New Haven, CT, (5)Yale Child Study Center, New Haven, CT, (6)University of California, Merced, Merced, CA, (7)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (8)University of South Carolina, Columbia, SC

119 164.119 Looking and Language in Autism Spectrum Disorder: A Family Study M. Lee[1], N. M. Heckel[1], D. Hamburger[2], P. C. Gordon[3], G. E. Martin[4] and M. Losh[5], (1)Northwestern University, Evanston, IL, (2)Communication Sciences and Disorders, Northwestern University, Evanston, IL, (3)Pyschology, University of North Carolina-Chapel Hill, Chapel Hill, NC, (4)Communication Sciences and Disorders, St. John's University, Staten Island, NY, (5)Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL

120 164.120 The Role of Parental Synchrony in the Language Abilities of Children with and without ASD T. Ward[1], T. Estrada[1], W. Mason[1] and B. Wilson[2], (1)Seattle Pacific University, Seattle, WA, (2) Clinical Psychology, Seattle Pacific University, Seattle, WA

121 ▸164.121 The Wh-Questions Comprehension in Korean Children with Autism Spectrum Disorders J. Park[1], M. Nam[2], S. W. Cho[3], S. J. Lee[2], J. W. Jeong[4] and L. Naigles[1], (1)University of Connecticut, Storrs, CT, (2)Seoul Metropolitan Eunpyeong Hospital, Seoul, South Korea, (3)Sogang University, Seoul, South Korea, (4)Korea Institute for Developmental Disabilities, Seoul, South Korea

122 164.122 Therapist Role-Reversals in an Autism Spectrum Pilot Study: Robot Malfunctions Prompt Enhanced Social Speech Performance S. M. Walsh Matthews and J. Pelkey, Languages, Literatures, and Cultures, Ryerson University, Toronto, ON, Canada

123 ▸164.123 Treatments Priorities of Saudi Parents for Their Children with ASD F. Alnemary[1], H. M. Al Dhalaan[2] and F. Alnemary[1], (1) UCLA, Los Angeles, CA, (2)King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

124 164.124 Understanding How Parent Pragmatics Influence Child Language Y. S. Stern and M. Y. Roberts, Communication Sciences and Disorders, Northwestern University, Evanston, IL

125 ▸164.125 Uneven Language Acquisition in Mandarin-Learning Preschool Children with ASD: Comparing Vocabulary, Grammar, and Pragmatic Use Via the PCDI-Toddler Form Y. E. Su[1], L. Naigles[2] and L. Y. Su[3], (1)Institute for Applied Linguistics, School of Foreign Languages, Central South University, Changsha, China, (2)University of Connecticut, Storrs, CT, (3)Mental Health Institute, The Second Xiangya Hospital of Central South University, Changsha, China

126 164.126 Validity Testing of a Social Communication Classification System of Functioning for Preschool Children with Autism Spectrum Disorder (ASD) B. M. Di Rezze[1,2], P. Stratford[1], P. Rosenbaum[2], L. Zwaigenbaum[3], M. J. C. Hidecker[4], H. Viveiros[2] and M. Law[1], (1)School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, (2) CanChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada, (3)University of Alberta, Edmonton, AB, Canada, (4)Communication Disorders, University of Wyoming, Laramie, WY

127 164.127 Voice Patterns of Turn-Taking Interactions in Adults English Speakers with Autism Spectrum Disorder R. Fusaroli[1,2], A. Lambrechts[3] and K. L. Maras[4], (1)Interacting Minds, Aarhus University, Aarhus, Denmark, (2)Center for Semiotics, Aarhus University, Aarhus, Denmark, (3)City University London, Ruislip, England, United Kingdom, (4) University of Bath, Bath, United Kingdom

128 164.128 Word Order Understanding Guides Wh-Question Comprehension M. Jyotishi and L. Naigles, University of Connecticut, Storrs, CT

129 164.129 Writing Development in Higher-Functioning Children with Autism Spectrum Disorder with and without ADHD Comorbidity M. C. Zajic[1], N. S. McIntyre[1], L. E. Swain-Lerro[1], J. B. McCauley[2], H. K. Schiltz[3], T. Oswald[2] and P. C. Mundy[4], (1)University of California at Davis MIND Institute, Davis, CA, (2)University of California at Davis MIND Institute, Sacramento, CA, (3)Human Development, University of California at Davis, Davis, CA, (4)Education and Psychiatry, University of California at Davis, Sacramento, CA

130 164.130 "Okay, so Anyway": The Influence of Discourse Markers on Pragmatic Language in the Broad Autism Phenotype N. M. Heckel[1], J. Barstein[2], G. E. Martin[3] and M. Losh[1], (1)Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, (2) Northwestern University Feinberg School of Medicine, Chicago, IL, (3) Communication Sciences and Disorders, St. John's University, Staten Island, NY

Poster Session

165 - Diagnostic, Behavioral & Intellectual Assessment II
5:30 PM - 7:00 PM - Hall A

131 165.131 ABAS-II Adaptive Profiles and Correlates in Samples of Children with HFASD or LFASD C. A. McDonald[1], B. C. Nasca[2], C. Lopata[1], J. P. Donnelly[1], M. L. Thomeer[1] and J. D. Rodgers[1], (1)Institute for Autism Research, Canisius College, Buffalo, NY, (2)Counseling, School, And Educational Psychology, SUNY at Buffalo, Buffalo, NY

132 ▸165.132 Adaptive Behavior in Children with ASD with Monolingual and Bilingual Language Experience S. B. Vanegas, K. Acharya and L. Sandman, University of Illinois at Chicago, Chicago, IL

133 165.133 An Initial Evaluation of the Validity of the Gilliam Autism Rating Scale-Third Edition (GARS-3) in a Clinical Sample K. A. Hastings and J. M. Campbell, University of Kentucky, Lexington, KY

134 ▸165.134 Besides Normal Children, Can the Children and Adolescent Versions of Autism-Spectrum Quotient (AQ) Also Differentiate ASD from ADHD Children? a Validation Study of AQ in Hong Kong P. W. Leung[1], R. Chan[2], V. Wai[1] and P. Wong[1], (1)Dept of Psychology, The Chinese University of Hong Kong, Hong Kong, China, (2)Kwai Chung Hospital, Hospital Authority, Hong Kong, China

135 165.135 Caregiver Concerns Prior to a Diagnostic Evaluation: Differences Between Children with and without Autism Spectrum Disorder L. Little[1], A. Wallisch[2] and B. Salley[3,4], (1)University of Kansas Medical Center, Kansas City, MO, (2)University of Kansas Medical Center, Kansas CIty, KS, (3)University of Kansas, Overland Park, KS, (4)Pediatrics, University of Kansas Medical Center, Kansas City, KS

136 165.136 Characteristics of Autism Spectrum Disorder Across Time: Comparing Cohorts of Birth Date and Time of Assessment T. White, T. E. Regan, K. Williams and M. R. Klinger, University of North Carolina at Chapel Hill, Chapel Hill, NC

137 165.137 Clincal Validation of a Test for Maternal Antibody Related (MAR) Autism J. W. Amshey[1], S. Hilt[2], J. Bue[1], A. Domingo[1], G. Landau[1], G. Korzus[1] and J. Van de Water[3], (1)Pediatric Bioscience, Inc., San Diego, CA, (2)University of California at Davis, Davis, CA, (3) University of California at Davis MIND Institute, Davis, CA

138 165.138 Clinical Characteristics of Children with Dup15q Syndrome and Comorbid ASD C. DiStefano[1], C. Kasari[2], S. Huberty[3] and S. S. Jeste[4], (1)Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)Psychiatry and Biobehavioral Sciences, UCLA Center for Autism Research and Treatment, Los Angeles, CA, (4) Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

139 ▸ 165.139 Clinical Evaluation of Children with Autism at a Multidisciplinary Intervention Centre in India D. R. Kanade, A. Bondre and S. H. Dalwai, New Horizons Health and Research Foundation, Mumbai, India

140 165.140 Cognitive and Adaptive Profile Differences Between Diagnostically Concordant and Nonconcordant Twins with ASD J. Cash[1], J. Mendelson[2], C. Hall[3], S. Hoffenberg[3] and T. Aronson[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University School of Medicine, Atlanta, GA and The University of North Carolina at Greensboro, Greensboro, NC, (3)Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA

141 165.141 Concordance Between DSM-IV and DSM-5: Results from a Large-Scale Epidemiological Surveillance Study L. A. Carpenter[1], A. D. Boan[1], A. Wahlquist[2], A. P. Cohen[3], J. M. Charles[1], W. Jenner[1], J. Spinello[1] and C. C. Bradley[1], (1)Pediatrics, Medical University of South Carolina, Charleston, SC, (2)MUSC, Charleston, SC, (3)University of Illinois at Urbana-Champaign, Champaign, IL

142 165.142 Confirmatory Factor Analyses of WISC-IV Scores of Children Diagnosed with ASD L. Peacock, J. Beck and M. South, Brigham Young University, Provo, UT

143 165.143 Convergent and Divergent Validity of the Early Video Guided Autism Screener (EVAS) in a Clinically-Referred Sample K. Sheperd[1], K. Boswell[2], J. Neely[3] and R. Landa[3], (1)Kennedy Krieger Institute, Center for Autism and Related Disorders, Baltimore, MD, (2) Kennedy Krieger Institute, Baltimore, MD, (3)The Kennedy Krieger Institute, Baltimore, MD

144 165.144 Creating an Observation System to Quantify Symptomatology Progress during Treatment in Children with Autism Spectrum Disorders M. V. Cornejo, M. V. Van Dyke and J. J. Wood, University of California Los Angeles, Los Angeles, CA

145 165.145 Defining Behavioral Phenotypes in Autism Spectrum Disorders D. Dixon[1] and E. J. Linstead[2], (1)Center for Autism and Related Disorders, Tarzana, CA, (2)Chapman University, Lakewood, CA

146 165.146 Defining in Detail and Establishing Consensus on DSM-5 Autism Spectrum Disorder (ASD) Criteria for Case Review C. E. Rice[1], L. A. Carpenter[2], A. D. Boan[3], M. J. Morrier[4], C. Skowyra[5], S. L. Bishop[6], N. Hobson[7], A. Thurm[8], W. W. Zahorodny[9] and C. Lord[10], (1)Emory Autism Center, Decatur, GA, (2)Medical University of South Carolina, Charleston, SC, (3)Pediatrics, Medical University of South Carolina, Charleston, SC, (4)Emory University, Atlanta, GA, (5)Washington University in St. Louis, St. Louis, MO, (6)Department of Psychiatry, University of California San Francisco, San Francisco, CA, (7)Independent Consultant, Texas, TX, (8)Pediatrics and Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (9)New Jersey Medical School, Westfield, NJ, (10)Weill Cornell Medical College, White Plains, NY

147 165.147 Development of a Diagnostic Algorithm for the PDD Behavior Inventory Based on Classification Trees I. L. Cohen[1], X. Liu[2], M. Hudson[3], B. Z. Karmel[4] and J. M. Gardner[5], (1)1050 Forest Hill Rd, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Queen's University, Kingston, ON, Canada, (3) asd-carc, Kingston, ON, Canada, (4)Infant Development, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (5) Infant Development, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY

148 165.148 Developmental Profiles of Children Missed By Early Autism Screening Compared to Early-Identified Peers C. Cordeaux[1], M. Barton[2] and D. A. Fein[2], (1)University of Connecticut, Storrs, CT, (2) Psychology, University of Connecticut, Storrs, CT

149 165.149 Does Age of ASD Diagnosis Produce Differential Outcomes in Middle Childhood M. Clark[1], C. Dissanayake[2] and J. Barbaro[3], (1)Kingsbury Drive Bundoora, La Trobe University, Melbourne, VIC, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)La Trobe University, Melbourne, Victoria, Australia

150 165.150 Early Intervention Participation in Families with Toddlers with or at-Risk for an Autism Spectrum Disorder J. Page[1], S. Zheng[2], C. Wong[1,2] and K. C. Gallagher[3], (1)UNC Chapel Hill, Chapel Hill, NC, (2) University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)FPG Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC

151 165.151 Empirically-Identified Restricted Repetitive Behavior Domains: Informing DSM-6 T. W. Frazier[1] and A. Y. Hardan[2], (1)Cleveland Clinic Center for Autism, Cleveland, OH, (2)Stanford University, Stanford, CA

152 165.152 Engaging and Adaptive Assessment for Attention in 16p11.2 Deletion Syndrome A. Brandes-aitken[1], S. N. Skinner[2], E. Martucci[3], J. Bower[3], J. A. Anguera[4], A. Gazzaley[5] and E. J. Marco[6], (1) Neurology, University of California, San Francisco, San Francisco, CA, (2)University of California, San Francisco, San Francisco, CA, (3)Akili Interactive, Boston, MA, (4)Neurology, UCSF SNAP, San Francicso, CA, (5)Neurology, UCSF, San Francisco, CA, (6)University of California in San Francisco, San Francisco, CA

153 165.153 Exploration of ASD Symptoms Among Individuals with Pitt-Hopkins Syndrome S. E. O'Kelley[1], K. C. Guest[2], C. O. Leonczyk[1], E. Rahn[3], K. D. Krubinski[4], B. A. Modi[4], A. Kennedy[3] and D. Sweatt[3], (1) University of Alabama at Birmingham, Birmingham, AL, (2)University of Alabama, Birmingham, AL, (3)Neurobiology, University of Alabama at Birmingham, Birmingham, AL, (4)Psychology, University of Alabama at Birmingham, Birmingham, AL

154 165.154 Exploring Personality in Children with ASD: Correlations Between Observed, Self-Report, and Parent-Report Measures A. R. Osuna[1], D. Delgadillo[1] and J. J. Wood[2], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA

155 165.155 Expressive Language As Predictor for Amount of Assessment Required to Evoke Challenging Behavior P. Juarez[1], J. E. Staubitz[2], N. Houchins-Juarez[3], J. Torelli[1], K. M. Simcoe[1] and J. L. Staubitz[3], (1)Vanderbilt University Medical Center, Nashville, TN, (2) Pediatrics, Vanderbilt University Medical Center, Nashville, TN, (3) Vanderbilt University, Nashville, TN

156 165.156 Factor Analysis of the Parent Stress Index in Children with Autism Spectrum Disorder and Serious Behavioral Problems V. Postorino[1], C. McCracken[2], S. E. Gillespie[3] and L. Scahill[4], (1) Marcus Autism Center, Emory University, Atlanta, GA, (2)Depertment of Pediatrics, Emory University School of Medicine, Atlanta, Georgia, (3)Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA, (4)Pediatrics, Marcus Autism Center, Atlanta 30329, GA

157 165.157 Factors That Promote Early ASD Diagnosis Among Simplex Families in an Urban Setting M. Thompson[1], E. A. Fox[2], T. Ward[3], J. Gerdts[4] and R. Bernier[4], (1)University of Washington Autism Center, Seattle, WA, (2)University of Washington Center for Human Development and Disability, Seattle, WA, (3)Seattle Pacific University, Seattle, WA, (4)University of Washington, Seattle, WA

158 165.158 Informant Discrepancies in Externalizing and Internalizing Symptoms and Adaptive Skills of High-Functioning Children with ASD C. A. McDonald[1], C. Lopata[1], J. P. Donnelly[1], M. L. Thomeer[1], J. D. Rodgers[1] and A. K. Jordan[2], (1)Institute for Autism Research, Canisius College, Buffalo, NY, (2)University at Buffalo, SUNY, Buffalo, NY

159 ▸165.159 Intelligence Profile and Diagnosis Model in Children with Autism Spectrum Disorder (ASD) B. Chen[1], H. Deng[1], X. Zou[1], J. He[1] and B. Wu[2], (1)Children Developmental & Behavioral Center, The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China, (2) School of Mathematics & Computational Science, Sun Yat-Sen University, Guangzhou, China, Guangzhou, China

160 ▸165.160 International Survey of Autism Spectrum Disorder Diagnostic Procedures W. M. Weikum[1], J. Shen[2] and N. E. Lanphear[1], (1) Sunny Hill Health Centre, University of British Columbia, Vancouver, BC, Canada, (2)Child & Family Research Institute, Vancouver, BC, Canada

161 165.161 Investigating Symptom Overlap Between Individuals with High-Functioning Autism Spectrum Disorder and Schizophrenia S. Brocke[1], K. Cook[2], L. Rabany[1], S. Corbera[1,2], K. Pelphrey[3], M. Bell[2,4] and M. Assaf[1,2], (1)Olin Neuropsychiatry Research Center, Hartford, CT, (2) Yale Psychiatry, New Haven, CT, (3)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (4)Department of Veteran Affairs, West Haven, CT

162 165.162 M-CHAT Screening in Toddlers Referred to Early Intervention B. L. Eaton[1], K. L. Traub[2], D. Thao[2], N. Basu[2], S. E. Levy[3], A. Bennett[4], H. Kruger[5] and D. L. Robins[2], (1)Autism, Chester County Intermediate Unit, Downingtown, PA, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA, (4)Developmental & Behavioral Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Children's Hospital of Philadelphia, Philadelphia, PA

163 165.163 Non-Binary Gender Is Associated with Higher Autistic Traits T. Loucas[1], P. Beaman[1], L. E. Martin[2] and M. Younas[2], (1) Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (2)University of Reading, Reading, United Kingdom

164 165.164 Online Remote Verbal IQ Testing for Large-Scale Autism Studies and the Issue of Cheating A. Zoltowski[1], C. C. Clements[2,3], L. Bateman[1], N. Stein[4] and R. T. Schultz[5,6], (1)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Psychology, University of Pennsylvania, Philadelphia, PA, (4)Department of Statistics, Wharton School, University of Pennsylvania, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Departments of Pediatrics and Psychiatry, University of Pennsylvania, Philadelphia, PA

165 165.165 Outcome Summaries of Latency-Based Functional Analyses Conducted in Inpatient Units of Hospital Settings P. Juarez[1], J. Lambert[2], J. E. Staubitz[3], J. Torelli[1], M. Mahoney Hopton[1], K. M. Simcoe[1] and N. Houchins-Juarez[2], (1)Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Pediatrics, Vanderbilt University Medical Center, Nashville, TN

166 165.166 Parents› Concerns As They Relate to Their Child›s Development and Later Diagnosis of Autism Spectrum Disorder M. Richards[1] and D. L. Robins[2], (1)Drexel University, Philadelphia, PA, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

167 165.167 Performance of M-CHAT and ITC Screeners in High-Risk Siblings E. Schriver[1], D. L. Robins[2], L. A. Croen[3], M. D. Fallin[4], I. Hertz-Picciotto[5], R. Landa[6], S. E. Levy[7], S. Ozonoff[8], J. Pandey[7] and C. J. Newschaffer[1], (1)A.J. Drexel Autism Institute, Philadelphia, PA, (2)Drexel University, Philadelphia, PA, (3)Division of Research, Kaiser Permanente, Oakland, CA, (4)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (5)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (6)The Kennedy Krieger Institute, Baltimore, MD, (7)Children's Hospital of Philadelphia, Philadelphia, PA, (8)UC Davis MIND Institute, Sacramento, CA

168 165.168 Presentation of ASD in Females: Examining DSM Criteria in a Clinical Sample R. Jamison, Center for Child Health and Development, University of Kansas Medical Center, Kansas City, KS

169 165.169 Profiles of Classroom Active Engagement Among Early Elementary Students with Autism Spectrum Disorder N. J. Sparapani[1], V. P. Reinhardt[2,3], L. Morgan[2], C. Schatschneider[2] and A. M. Wetherby[2], (1) Arizona State University, Tempe, AZ, (2)Florida State University Autism Institute, Tallahassee, FL, (3)JFK Partners Universiy of Colorado School of Medicine, Aurora, CO

170 165.170 Prospective Clinical Evaluation of a Machine-Learning Based Test for Rapid Detection and Triage of Autism M. Duda[1], J. Daniels[2] and D. Wall[1], (1)Department of Pediatrics, Stanford University, Stanford, CA, (2)Stanford University, Palo Alto, CA

171 165.171 Psychometric Properties of the Dimensional, Diagnostic and Dimensional Interview Version for Adults (3DIVA) K. Clarke[1], M. McKenner[2], C. Allison[3], S. J. Wheelwright[4], S. Baron-Cohen[3], D. H. H. Skuse[5] and W. Mandy[6], (1)Clinical Psychology, UCL, London, United Kingdom, (2)UCL, London, United Kingdom, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (5)Institute of Child Health, London, United Kingdom of Great Britain and Northern Ireland, (6)University College London, London, United Kingdom

172 ▸165.172 Reaching the Other Half: Moving Towards Symptom-Based Referral Methods in a Community-Derived Sample C. K. Kraper[1], C. Rothwell[2,3], J. L. Martucci[4], A. Verbalis[5], S. Seese[2], J. Safer-Lichtenstein[6], A. B. Ratto[7], L. Kenworthy[8] and L. G. Anthony[5], (1)Children's National Health System, Rockville, MD, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Catholic University of America, Washington, DC, (4)Neuropsychology, Children's National Health System, Rockville, MD, (5)Children's National Medical Center, Rockville, MD, (6)Georgetown University, Washington, DC, (7)Children's National Medical Center, Silver Spring, MD, (8)Children's Research Institute, Children's National Medical Center, Rockville, MD

173 165.173 School Refusal Behavior in Students with Autism Spectrum Disorder, an Exploratory Study of Prevalence and Associated Factors E. K. Munkhaugen, Oslo University Hospital, Oslo, Norway

174 165.174 Screening Practices and Factors Influencing Autism Spectrum Disorder Screening By Community Paediatricians A. Ip[1], A. Dupuis[2], E. Anagnostou[3,4,5], A. Loh[6], A. Munoz[7], T. Dodds[7] and S. Smile[7,8], (1)Developmental Paediatrics, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)The Hospital for Sick Children, Toronto, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (5)Paediatrics, University of Toronto, Toronto, ON, Canada, (6)Surrey Place Centre, Toronto, ON, Canada, (7)Bloorview Research Institute, Toronto, ON, Canada, (8)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

175 165.175 Screening for Autism Spectrum Disorder: A Measurement Agreement Study D. Kamara[1], K. M. Walton[1] and A. N. Witwer[2], (1)The Ohio State University, Columbus, OH, (2)The Ohio State University, Gahanna, OH

176 ▸165.176 Screening for Autism Spectrum Disorders in Childcare Centers Using the M-CHAT-R/F B. Ferreira[1], D. Thao[1], A. Spiller[1], N. Tomy[1], T. Scott[2] and D. L. Robins[1], (1)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (2)Delaware Valley Association for the Education of Young Children, Philadelphia, PA

177 165.177 The Faison-Quality of Life Questionnaire: A Brief Survey of Outcome and Indicators for Individuals with Autism Spectrum Disorder E. T. Newcomb[1] and R. K. Gilbert[1,2], (1)The Faison School for Autism, Richmond, VA, (2)University of Richmond, University of Richmond, VA

178 165.178 The Importance of Visually Guided Screening: An Examination of an Autism Screener with and without Video Depiction of ASD Symptomology K. Boswell[1], K. Sheperd[2] and R. Landa[3], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Center for Autism and Related Disorders, Baltimore, MD, (3)The Kennedy Krieger Institute, Baltimore, MD

179 ▸165.179 The Social Communication Questionnaire (SCQ) As a Population-Based Screening Instrument for Autism Spectrum Disorder C. C. Bradley[1], A. D. Boan[1], A. Wahlquist[2], A. P. Cohen[3], J. M. Charles[1] and L. A. Carpenter[4], (1)Pediatrics, Medical University of South Carolina, Charleston, SC, (2)MUSC, Charleston, SC, (3)University of Illinois at Urbana-Champaign, Champaign, IL, (4)Medical University of South Carolina, Charleston, SC

180 165.180 The Utility of the ADOS-Toddler Module in an Independent Sample L. B. Swineford[1,2] and A. Thurm[2], (1)Department of Speech and Hearing Sciences, Washington State University, Spokane, WA, (2)Pediatrics and Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD

181 165.181 Use of Machine Learning for Behavioral Distinction of Autism and ADHD M. Duda[1], R. Ma[2], N. Haber[2] and D. Wall[3], (1) Department of Pediatrics, Stanford University, Stanford, CA, (2)Pediatrics, Stanford University, Stanford, CA, (3)Stanford University, Palo Alto, CA

182 165.182 Utility of the SCQ and RBS-R to Confirm Caseness of Adolescents and Adults in ASD Research L. A. Pepa[1] and V. Hus Bal[2], (1) Center for Autism and the Developing Brain, Weill Cornell Medicine, White Plains, NY, (2)Department of Psychiatry, University of California San Francisco, San Francisco, CA

183 165.183 Validation of the Early Video-Guided Autism Screener (EVAS) in a Clinically-Referred Sample J. Neely[1], K. Sheperd[2], K. Boswell[3] and R. Landa[1], (1)The Kennedy Krieger Institute, Baltimore, MD, (2) Kennedy Krieger Institute, Center for Autism and Related Disorders, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD

184 ▸165.184 Validation of the Electronic 2-Stage Modified Checklist for Autism in Toddlers, Revised, with Follow-up (M-CHAT-R/F) D. L. Robins[1], K. A. Haynes[2], R. K. Ramsey[3] and L. B. Adamson[3], (1)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA, (2)Georgia State University, Atlanta, GA, (3)Psychology, Georgia State University, Atlanta, GA

185 165.185 Validity of Standardized Diagnostic Instruments for Autism Spectrum Disorders in Toddlers Recruited from a Population-Based Cohort: The Influence of Parental Concern A. Havdahl[1,2,3], S. L. Bishop[4], P. Suren[3], A. S. Oyen[2,3], C. Lord[1], A. Pickles[5], S. von Tetzchner[6], S. Schjolberg[7], N. Gunnes[3], M. Hornig[8], M. Bresnahan[8], W. I. Lipkin[8], E. Susser[9], P. Magnus[3], N. Stenberg[10], T. Reichborn-Kjennerud[3,6] and C. Stoltenberg[3,11], (1)Weill Cornell Medical College, White Plains, NY, (2)Lovisenberg Diaconal Hospital, Oslo, Norway, (3)Norwegian Institute of Public Health, Oslo, Norway, (4)Department of Psychiatry, University of California San Francisco, San Francisco, CA, (5)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (6)University of Oslo, Oslo, Norway, (7)Mental Health, Norwegian Institute of Public Health, Oslo, Norway, (8)Columbia University, New York, NY, (9)Epidemiology and Psychiatry, Columbia University, New York, NY, (10)Oslo University Hospital, Oslo, Norway, (11) University of Bergen, Bergen, Norway

Poster Session
166 - Epidemiology
5:30 PM - 7:00 PM - Hall A

186 166.186 A Prospective Birth Cohort Study on Intra-Uterine Inflammation and Developmental Disabilities Including Autism Among Preterm- and Term- Born Children M. Li[1], M. D. Fallin[2], R. Landa[3], L. K. Hironaka[4], L. Sices[4], T. Stivers[4], D. M. Caruso[5], J. L. Kaczaniuk[1], C. Pearson[4], B. Zuckerman[4] and X. Wang[6], (1)Wendy Klag Center for Autism and Developmental Disabilities and Center on Early Life Origins of Disease, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (3)The Kennedy Krieger Institute, Baltimore, MD, (4)The Boston University Medical Center, Boston, MA, (5)Center on the Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD, (6)Center on Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD

187 166.187 ASD Screening in Primary Care: 10 Years of the M-CHAT Program in Spain P. Garcia Primo[1], M. V. Martín Cilleros[2], M. Magan Maganto[2], B. Esteban Manjón[2], M. Posada[1], M. T. Sáez Martín[2], G. Bueno Carrera[2] and R. Canal-Bedia[2], (1)Carlos III National Health Institute, Madrid, Spain, (2)University of Salamanca, Salamanca, Spain

188 166.188 An Expanded Examination of Neonatal Cytokines and Chemokines As Predictors of Autism Risk: The Early Markers for Autism (EMA) Study L. S. Heuer[1], K. L. Jones[2], C. K. Yoshida[3], R. Hansen[4], O. Zerbo[3], P. Ashwood[5], L. A. Croen[3], J. Van de Water[6] and R. Yolken[7], (1) UC Davis, Davis, CA, (2)University of California at Davis, Sacramento, CA, (3)Division of Research, Kaiser Permanente, Oakland, CA, (4)Pediatrics and the MIND Institute, University of California Davis, Davis, CA, (5)UC Davis, Sacramento, CA, (6)University of California at Davis MIND Institute, Davis, CA, (7)Johns Hopkins, Baltimore, MD

189 166.189 Androgens and Neurodevelopmental Disorders: Maternal Polycystic Ovarian Syndrome As a Risk Factor for ASD and ADHD R. M. Gardner[1], L. Widman[2], C. Dalman[3] and K. Kosidou[4], (1) Tomtebodavagen 18A, Karolinska Institutet, Stockholm, Sweden, (2) Centre for Epidemiology and Community Medicine, Stockholm County Council, Stockholm, Sweden, (3)Karolinska Institutet, Stockholm, Sweden, (4)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden

190 166.190 Antidepressants during Pregnancy and Autism Risk: Update from the Stockholm Youth Cohort D. Rai[1], B. Lee[2], C. Dalman[3], C. J. Newschaffer[4], G. Lewis[5] and C. Magnusson[3], (1)University of Bristol, Bristol, United Kingdom, (2)Drexel University, Philadelphia, PA, (3) Karolinska Institutet, Stockholm, Sweden, (4)A.J. Drexel Autism Institute, Philadelphia, PA, (5)UCL, London, United Kingdom

191 166.191 Are Mothers of Children with Autism More Likely to Have Studied a STEM Degree? a Study of 2,000 Women S. Baron-Cohen, P. Smith and C. Allison, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

192 166.192 Associations Between Exposure to Ambient Nitrogen Dioxide and Autism Spectrum Disorder in Israel: A Population-Based Nested Case-Control Study R. Raz[1], M. Weisskopf[2], D. M. Broday[3], Y. .[3], O. Pinto[4] and H. Levine[1], (1)Braun School of Public Health and Community Medicine, The Hebrew University of Jerusalem - Hadassah, Jerusalem, Israel, (2)Harvard School of Public Health, Boston, MA, (3)Faculty of Civil and Environmental Engineering, Technion, Israel Institute of Technology, Haifa, Israel, (4)Research and Planning Department, National Insurance of Israel, Jerusalem, Israel

193 ▸166.193 Autism Spectrum Disorder Administrative Prevalence in Texas School Children of Immigrant Parents A. S. Dickerson[1] and A. S. Dickerson[2], (1)Office of Research and Development, Environmental Protection Agency, Durham, NC, (2)Argosy University, Atlanta, GA

194 166.194 Combined Exposures to Prenatal Pesticides and Folic Acid Intake in Relation to Autism Spectrum Disorders R. J. Schmidt[1], V. Kogan[2], J. Shelton[3], L. Delwiche[4], R. Hansen[5], S. Ozonoff[6], D. J. Tancredi[7], I. Hertz-Picciotto[8] and H. E. Volk[9], (1)Public Health Sciences and the MIND Institute, University of California at Davis, Davis, CA, (2)3Departments of Preventive Medicine and Pediatrics, Zilkha Neurogenetic Institute, Keck School of Medicine, Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA, (3)Public Health Sciences, University of California Davis, Davis, CA, (4)Public Health Sciences, University of California, Davis, Davis, CA, (5)Pediatrics and the MIND Institute, University of California Davis, Davis, CA, (6)UC Davis MIND Institute, Sacramento, CA, (7)Pediatrics, UC Davis School of Medicine, Sacramento, CA, (8)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (9)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

195 166.195 Development and Validation of a Streamlined Autism Case Confirmation Approach for Use in Epidemiologic Risk Factor Research C. J. Newschaffer[1], E. Schriver[1], L. Berrigan[2], R. Landa[3], W. L. Stone[4], S. L. Bishop[5], A. Golden[6], L. V. Ibanez[4], A. Kuo[7], K. D. Lakes[8], D. S. Messinger[9], S. J. Paterson[10] and Z. Warren[11], (1)A.J. Drexel Autism Institute, Philadelphia, PA, (2)AJ Drexel Autism Institute, Philadelphia, PA, (3)The Kennedy Krieger Institute, Baltimore, MD, (4)Department of Psychology, University of Washington, Seattle, WA, (5)Department of Psychiatry, University of California San Francisco, San Francisco, CA, (6)Icahn Schol of Medicine at Mount Sinai, New York, NY, (7)Health Care Transitions Research Network for Autism Spectrum Disorders, Los Angeles, CA, (8)Pediatrics, University of California, Irvine, Irvine, CA, (9) Psychology, University of Miami, Coral Gables, FL, (10)Department of psychology, Temple university, Philadelphia, PA, (11)Vanderbilt University, Nashville, TN

196 166.196 Development of an Automated Classification Algorithm for the Surveillance of Autism Spectrum Disorder M. J. Maenner[1], M. H. Yeargin-Allsopp[1], K. Van Naarden Braun[2], D. Christensen[3] and L. A. Schieve[2], (1)Centers for Disease Control and Prevention, Atlanta, GA, (2) National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (3)Centers for Disease Control (CDC), Atlanta, GA

197 166.197 Differential Gene Expression in Children with Autism Spectrum Disorder Born to Mothers with Preeclampsia Y. Mukhtar[1], I. Hertz-Picciotto[2], B. Durbin-Johnson[3], S. Letovsky[4] and C. Walker[5], (1)UC Davis MIND Institute, Sacramento, CA, (2)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (3)Public Health Sciences, School of Medicine, University of California, Davis, Davis, CA, (4)SynapDx Corp, Milton, MA, (5)University of California, Davis, Sacramento, CA

198 166.198 Do Women with Polycystic Ovary Syndrome (PCOS) and Their Children Have Elevated Rates of Autism? an Electronic Health Records Study in the UK A. Cherskov[1], A. L. Pohl[1], C. Allison[1], R. A. Payne[2] and S. Baron-Cohen[1], (1)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Primary Care Unit, Institute of Public Health, University of Cambridge, Cambridge, United Kingdom

199 166.199 Does Breastfeeding Protect Against Autism? a Birth Cohort Study G. Wellby[1], J. Golding[2], A. L. Guyatt[3], A. M. Emond[1] and D. Rai[4], (1)University of Bristol, Bristol, United Kingdom, (2)Centre for Child and Adolescent Health, University of Bristol, Bristol, United Kingdom, (3) University of Bristol, Bristol, United Kingdom of Great Britain and Northern Ireland, (4)University of Bristol, Bristol, England, United Kingdom

200 ▸ 166.200 EU-AIMS Clinical Network: Building a Large Scale European Data Resource **J. E. Tillmann**[1], K. L. Ashwood[2], E. Loth[3], J. K. Buitelaar[4], D. G. Murphy[5] and T. Charman[6], (1)Institute of Psychiatry Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, London, United Kingdom of Great Britain and Northern Ireland, (3)Institute of Psychiatry, King's College London, London, England, United Kingdom of Great Britain and Northern Ireland, (4)Radboud University Medical Centre, Nijmegen, Netherlands, (5)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (6)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

201 166.201 Food Selectivity and Taste/Smell Sensitivity in Children with Autism Spectrum Disorder **L. T. Chistol**[1], A. Must[2], S. M. Phillips[2], C. Curtin[3] and L. G. Bandini[3,4], (1)College of Health & Rehabilitation Sciences, Sargent College, Boston University, Boston, MA, (2)Public Health and Community Medicine, Tufts University School of Medicine, Boston, MA, (3)Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Charlestown, MA, (4)Department of Health Sciences, Boston University, Boston, MA

202 166.202 From Epi to Decisions: Use of Navigation Guide Systematic Review Methodology to Summarize the Evidence for Decision-Making **J. Lam**[1], P. Sutton[1], A. Halladay[2], A. Kalkbrenner[3], G. C. Windham[4], L. Davidson[5], C. Lawler[6], C. J. Newschaffer[7], N. Daniels[1], S. Sen[8] and T. Woodruff[1], (1)Program on Reproductive Health and the Environment, University of California, San Francisco, San Francisco, CA, (2)Autism Science Foundation, New York, NY, (3)University of Wisconsin-Milwaukee, Milwaukee, WI, (4)California Department of Public Health, Richmond, CA, (5)University of California at San Francisco, San Francisco, CA, (6)National Institute of Environmental Health Sciences, RTP, NC, (7)A.J. Drexel Autism Institute, Philadelphia, PA, (8)University of California, San Francisco, San Francisco, CA

203 ▸ 166.203 Gapmap: Enabling Comprehensive Autism Resource Epidemiology D. Wall, **J. Daniels** and N. Albert, Stanford University, Palo Alto, CA

204 166.204 Gestational Age and the Risk of Autism Spectrum Disorders: Findings from the Stockholm Youth Cohort **L. Xie**[1], C. Magnusson[2], D. Rai[3], C. Dalman[2] and B. Lee[4], (1)Drexel University School of Public Health, Philadelphia, PA, (2)Karolinska Institutet, Stockholm, Sweden, (3)University of Bristol, Bristol, United Kingdom, (4)Drexel University, Philadelphia, PA

205 166.205 Hazardous Air Pollutants in Relation to Autism Diagnosis and Phenotype in a US Family-Based Study **A. Kalkbrenner**[1], G. C. Windham[2], N. L. Lee[3], R. S. McConnell[4] and H. E. Volk[5], (1) University of Wisconsin-Milwaukee, Milwaukee, WI, (2)California Department of Public Health, Richmond, CA, (3)Drexel University School of Public Health, Philadelphia, PA, (4)Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA, (5)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

206 166.206 Homogeneous Subgroups of Autism Spectrum Disorder Based on Behavioral, Developmental, and Medical Phenotypes **L. D. Wiggins**[1], W. Thompson[2], L. H. Tian[2], L. A. Schieve[2], J. L. Daniels[3], J. Pandey[4], L. C. Lee[5], C. E. Rice[6], S. Hepburn[7], R. Edmondson Pretzel[8], L. Blaskey[4] and S. E. Levy[4], (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (3) University of North Carolina, Chapel Hill, NC, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6)Emory Autism Center, Decatur, GA, (7)University of Colorado / JFK Partners, Aurora, CO, (8)Carolina Institute for Developmental Disabilities, University of North Carolina Chapel Hill, Carrboro, NC

207 166.207 Injuries in Children with Autism Spectrum Disorder: Study to Explore Early Development (SEED) **C. G. DiGuiseppi**[1], S. E. Levy[2], G. N. Soke[3], S. Rosenberg[4], K. Sabourin[5], L. C. Lee[6], E. Moody[5] and L. A. Schieve[7], (1)University of Colorado Anschutz Medical Campus, Aurora, CO, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3) Centers for Disease Control and Prevention, Atlanta, GA, (4)University of Colorado Anschutz Medical Campus, Aurroa, CO, (5)University of Colorado Anschutz Medical Campus, Aurora, CO, (6)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA

208 166.208 Intellectual Disability Risk in Children Born to Women with Perinatal Psychiatric Diagnoses **A. Talbott**[1], B. M. Wieckowski[2], G. Xing[3] and C. Walker[4], (1)[illegible] Public Health Sciences, University of California, Davis, Sacramento, CA, (2)University of California, Davis, Davis, CA, (3)Center for Healthcare Policy and Research, University of California, Davis, Davis, CA, (4)University of California, Davis, Sacramento, CA

WITHDRAWN

209 166.209 Investigating Prenatal Exposure to Groups of Air Toxics and Autism Spectrum Disorder Using Exploratory Factor Analysis **S. L. Stacy**[1], E. Talbott[2] and J. Rager[3], (1)Epidemiology, Brown University School of Public Health, Providence, RI, (2)University of Pittsburgh, Pittsburgh, PA, (3)University of Pittsburgh GSH, Pittsburgh, PA

210 166.210 Is Intraventricular Hemorrhage Associated with Autism? **M. B. Murphrey**[1], C. Walker[2,3] and G. Xing[4], (1)School of Medicine, Creighton University, Omaha, NE, (2)MIND Institute, University of California, Davis, Sacramento, CA, (3)Department of Obstetrics & Gynecology, University of California, Davis, Sacramento, CA, (4)Center for Healthcare Policy and Research, University of California, Davis, Davis, CA

211 ▸ 166.211 Is 'Autism' a Socioeconomically Biased Diagnostic Label? a Birth Cohort Study **D. Rai**[1], A. M. Emond[2], G. Davey Smith[3], C. Magnusson[4], G. Lewis[5] and J. Golding[6], (1)University of Bristol, Bristol, England, United Kingdom, (2)University of Bristol, Bristol, United Kingdom, (3)MRC Integrative Epidemiology Unit, University of Bristol, Bristol, United Kingdom, (4)Karolinska Institutet, Stockholm, Sweden, (5)UCL, London, United Kingdom, (6)Centre for Child and Adolescent Health, University of Bristol, Bristol, United Kingdom

212 166.212 Maternal Exposure to Childhood Abuse, Mate Selection, and Autism Spectrum Disorder in Offspring **A. L. Roberts**[1], K. Lyall[2] and M. Weisskopf[3], (1)401 Park Drive, Harvard School of Public Health, Boston, MA, (2)California Dept of Public Health, Richmond, CA, (3)Harvard School of Public Health, Boston, MA

213 166.213 Maternal Metabolic Determinants of Neurodevelopmental Compromise P. Krakowiak[1], D. J. Tancredi[2], G. Xing[3] and C. Walker[4], (1)UC Davis, Sacramento, CA, (2)Pediatrics, UC Davis School of Medicine, Sacramento, CA, (3)Center for Healthcare Policy and Research, University of California, Davis, Davis, CA, (4) University of California, Davis, Sacramento, CA

214 166.214 Maternal Pre-Pregnancy BMI and Pregnancy Weight Gain in Relation to Autism Spectrum Disorder (ASD) in Offspring G. C. Windham[1], M. Anderson[2], K. Lyall[3], J. L. Daniels[4], T. V. Kral[5], L. A. Croen[6], S. E. Levy[7], C. B. Bradley[8], L. Young[9] and L. A. Schieve[10], (1)California Department of Public Health, Richmond, CA, (2)Impact Assessment, Inc., Richmond, CA, (3)A.J. Drexel Autism Institute, Philadelphia, PA, (4) University of North Carolina, Chapel Hill, NC, (5)Biobehavioral Health Sciences, University of Pennsylvania School of Nursing, Philadelphia, PA, (6)Division of Research, Kaiser Permanente, Oakland, CA, (7)Children's Hospital of Philadelphia, Philadelphia, PA, (8)Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, (9)School of Nursing, PA-SEED, CADDRE, Philadelphia, PA, (10)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA

215 166.215 Oral Health and Dental Needs in Adolescents with ASD: An Italian Study E. Grossi[1], M. Gangale[2], C. Sciessere[2], D. R. Dunca[1] and L. Levrini[3], (1)Autism Unit, Villa Santa Maria Institute Neuropsychiatric Rehabilitation Center, Tavernerio, Italy, (2)Research Centre Cranio Facial Disease and Medicine, School Dental Hygiene, University of Insubria, Como, Italy, (3)Research Centre Cranio Facial Disease and Medicine, School Dental Hygiene,University of Insubria, Como, Italy

216 166.216 Population-Based Registries in Autism Research D. E. Schendel, Aarhus University, Aarhus, Denmark

217 166.217 Prebiotic and Probiotic Consumption during Pregnancy and Autism Observational Scale for Infants (AOSI) Score at 12-Months in the Early Autism Risk Longitudinal Investigation (EARLI) C. Holingue[1], L. A. Croen[2], I. Hertz-Picciotto[3], J. Pandey[4], C. J. Newschaffer[5] and M. D. Fallin[6], (1)Wendy Klag Center for Autism and Developmental Disabilities and Center on Early Life Origins of Disease, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Division of Research, Kaiser Permanente, Oakland, CA, (3)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)A.J. Drexel Autism Institute, Philadelphia, PA, (6)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

218 166.218 Predictors of Emergency Department Usage Among Children Ever Diagnosed with Autism Spectrum Disorder L. I. Black and B. Zablotsky, National Center for Health Statistics, Hyattsville, MD

219 166.219 Prenatal Exposures As Measured By Routine Placental Histopathology in a Community Cohort of ASD **C. M. Salafia**[1,2], J. K. Straughen[3], D. P. Misra[4], P. Narula[2], S. M. Lederman[5], B. Dygulska[6], N. Khawar[6], F. Imbert[7], G. Perez[5], A. Devine Dunn[5], A. Thakur[5], R. G. Shah[8], D. Landau[5], V. Onbreyt[5] and G. M. Castillo[9], (1)Institute for Basic Research, Staten Island, NY, (2)New York Methodist Hospital, Brooklyn, NY, (3)Henry Ford Hospital, Detroit, MI, (4)Wayne State University School of Medicine, Detroit, MI, (5)Obstetrics and Gynecology, New York Methodist Hospital, Brooklyn, NY, (6)Pediatrics, New York Methodist Hospital, Brooklyn, NY, (7)Gettysburg College, Gettysburg, PA, (8) Placental Modulation, Institute for Basic Research, Staten Island, NY, (9) New York University, New York, NY

220 166.220 Prenatal Infections and Risk of Autism, Intellectual Disability and/or Epilepsy H. R. Haber[1], G. Xing[2] and C. Walker[3], (1)School of Medicine, University of California, Davis, Sacramento, CA, (2)Center for Healthcare Policy and Research, University of California, Davis, Davis, CA, (3)University of California, Davis, Sacramento, CA

221 ▸166.221 Prenatal Organophosphate Pesticide Exposure and Social Cognition Among Adolescents in an Agricultural Community S. K. Sagiv[1], M. H. Harris[1], K. G. Harley[2], K. Kogut[3], J. Deardorff[3], K. Parra[3], A. Bradman[4] and B. Eskenazi[3], (1)Epidemiology, University of California, Berkeley, Berkeley, CA, (2)School of Public Health, University of California, Berkeley, Berkeley, CA, (3)University of California, Berkeley, Berkeley, CA, (4)university of California, Berkeley, Berkeley, CA

222 166.222 Prenatal Triclosan or Triclocarban Product Use and Autism Observational Scale for Infants at 12 Months B. Park[1], B. Lee[2], L. Tabb[3], I. Burstyn[2], M. D. Fallin[4], I. Hertz-Picciotto[5], L. A. Croen[6] and C. J. Newschaffer[7], (1)Mental Health Department, 1. Department of Mental Health, Johns Hopkins Bloomberg School of Public Health,, Baltimore,, MD, (2)Drexel University, Philadelphia, PA, (3)Department of Epidemiology and Biostatistics, Drexel University, Philadelphia, PA, (4) Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (5)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (6)Division of Research, Kaiser Permanente, Oakland, CA, (7)A.J. Drexel Autism Institute, Philadelphia, PA

223 166.223 Prevalence of Autism Spectrum Disorder in a Japanese Community-Based Population Sample of Five-Year-Old Children M. Saito[1], N. Takayanagi[2], M. Adachi[2], A. Osato[3], S. Yasuda[2], T. Masuda[4], M. Tanaka[4], S. Yoshida[2], M. Kuribayashi[2] and K. Nakamura[5], (1)Hirosaki University, Hirosaki, Aomori, Japan, (2)Research Center for Child Mental Development, Hirosaki University, Hirosaki, Japan, (3)Graduate School of Medicine, Hirosaki University, Hirosaki, Japan, (4)Faculty of Education, Hirosaki University, Hirosaki, Japan, (5)Hirosaki University Graduate School of Medicine, Aomori, Japan

224 ▸166.224 Prevalence of Autism in China: A Mainstream-School Population National Study in 3 Cities X. Sun[1], C. Allison[2], L. Wei[3,4], F. E. Matthews[5], B. Auyeung[6], Y. Y. Wu[7], M. Jia[8], S. Baron-Cohen[2] and C. Brayne[9], (1)University of Cambridge, Beijing, China, (2)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)Center for Bioinformatics, School of Life Sciences, Peking University, Beijing, China, (4)National Institute of Biological Sciences, Beijing, Beijing, China, (5)MRC Biostatistics Unit, Cambridge, United Kingdom, (6)University of Edinburgh, Edinburgh, United Kingdom, (7)YuNing Psychiatry Clinic, Taiwan, Taiwan, (8)Peking University 6th Hospital, Beijing, China, (9) University of Cambridge, Cambridge, United Kingdom

225 166.225 Prospective Vs. Retrospective Report of Indoor Pesticide Use during the Perinatal Period J. Barkoski[1], R. J. Schmidt[2], P. C. Chen[1], D. J. Tancredi[3], C. Walker[4], I. Hertz-Picciotto[5] and D. Bennett[1], (1)Public Health Sciences, University of California, Davis, Davis, CA, (2)University of California at Davis, Davis, CA, (3)Pediatrics, UC Davis School of Medicine, Sacramento, CA, (4)MIND Institute, University of California, Davis, Sacramento, CA, (5)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA

226 166.226 Reliability of Self-Reported Lifestyle Exposures before, during, and after Pregnancy in Autism Studies R. J. Schmidt[1], P. C. Chen[2], C. Walker[3], I. Hertz-Picciotto[4] and D. J. Tancredi[5], (1)Public Health Sciences and MIND Institute, University of California at Davis, Davis, CA, (2)Public Health Sciences, University of California, Davis, Davis, CA, (3) MIND Institute, University of California, Davis, Sacramento, CA, (4)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (5)Pediatrics, UC Davis School of Medicine, Sacramento, CA

227 ▸166.227 Socioeconomic, Racial and Ethnic Disparities in the Prevalence of Autism Spectrum Disorder Among US Children M. S. Durkin[1], M. J. Maenner[2], D. Christensen[3], L. C. Lee[4], R. Fitzgerald[5], M. Wingate[6], J. L. Daniels[7], C. L. Arneson[1], K. Van Naarden Braun[8] and M. H. Yeargin-Allsopp[2], (1)University of Wisconsin-Madison, Madison, WI, (2)Centers for Disease Control and Prevention, Atlanta, GA, (3)Centers for Disease Control (CDC), Atlanta, GA, (4)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (5) Washington University School of Medicine, St. Louis, MO, (6)University of Alabama, Birmingham, AL, (7)University of North Carolina, Chapel Hill, NC, (8)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA

228 166.228 Stressful Life Events during Pregnancies Related to Children with ASD, Their Siblings and Typically Developing Children E. Grossi[1], F. Veggo[1,2], A. Narzisi[3], F. Muratori[3], I. Rolla[4] and L. Migliore[4], (1) Autism Unit, Villa Santa Maria Institute Neuropsychiatric Rehabilitation Center, Tavernerio, Italy, (2)Child and Adolescent Neuropsychiatry, University of Milan- Bicocca, Monza, Italy, (3)IRCCS Stella Maris Institute, Pisa, Italy, (4)Human Genetics, Pisa University, Pisa, Italy

229 ▸166.229 The Association Between Prenatal Exposure to Maternal Infection and Autism Spectrum Disorder in the Boston Birth Cohort M. Brucato[1], C. Ladd-Acosta[2], M. Li[3], D. M. Caruso[4], X. Hong[5], X. Wang[6] and M. D. Fallin[7], (1)Epidemiology, Johns Hopkins University School of Public Health, Baltimore, MD, (2)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3) Johns Hopkins School of Public Health, Baltimore, MD, (4)Center on the Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD, (5)Johns Hopkins University School of Public Health, Baltimore, MD, (6)Center on Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD, (7)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

230 166.230 The Association Between Trimester Specific Daily Average PM2.5 and Autism Spectrum Disorder: A Large-Scale Multi-Source Linked Analysis N. Connolly and K. A. Bowers, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

231 166.231 The Effects of in Vitro and In Vivo Exposure of Persistent Organic Pollutants on Immune Function in Children with ASD J. Van de Water[1], M. E. Akintunde[2], Y. Lin[3], B. Puschner[3], P. Ashwood[4], I. Hertz-Picciotto[5] and P. Krakowiak[4], (1)University of California at Davis MIND Institute, Davis, CA, (2)University of California Davis, Davis, CA, (3) University of California, Davis, Davis, CA, (4)UC Davis, Sacramento, CA, (5)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA

232 166.232 The Hidden Disorder: Undiagnosed Autism Spectrum Disorder in Women H. L. Belcher[1], S. D. Stagg[2] and R. M. Ford[2], (1)Anglia Ruskin University, Cambridge, England, United Kingdom, (2)Psychology, Anglia Ruskin University, Cambridge, United Kingdom

233 166.233 The New Jersey Autism Registry: Development and Impact S. Howell[1] and N. Scotto Rosato[2], (1)NEW JERSEY DEPT OF HEALTH, Milford, NJ, (2)New Jersey Dept of Health, trenton, NJ

234 166.234 The Relationship Between Use of Maternal Anesthesia during Delivery and Child Development at 12 Months in the Enriched Risk EARLI Pregnancy Cohort S. C. Brown[1], M. D. Fallin[2], C. J. Newschaffer[3], L. A. Croen[4], M. Stacy[5], M. Landrum[6], C. Walker[7], M. L. Massolo[4], R. Landa[8], J. Feinberg[9], K. M. Bakulski[6], I. Hertz-Picciotto[10], D. M. Caruso[11], X. Hong[12] and X. Wang[13], (1)Mental Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, (2)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (3) A.J. Drexel Autism Institute, Philadelphia, PA, (4)Division of Research, Kaiser Permanente, Oakland, CA, (5)Southern Illinois University-Carbondale, Carbondale, IL, (6)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7)MIND Institute, University of California, Davis, Sacramento, CA, (8)The Kennedy Krieger Institute, Baltimore, MD, (9)Johns Hopkins University, Baltimore, MD, (10)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (11) Center on the Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD, (12)Johns Hopkins University School of Public Health, Baltimore, MD, (13)Center on Early Life Origins of Disease, Department of Population, Family, Reproductive Health, JHBSPH, Baltimore, MD

236 166.236 The Utility of Traditional Epidemiologic Designs in ASD Research M. D. Fallin, Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD

237 166.237 Title: Investigation of Parental Priorities for Research in Children with Neurodevelopmental and Genetic Disorders: A National Irish Study N. Mc Devitt[1], L. Gallagher[2] and R. B. Reilly[3], (1)Trinity College Dublin, Dublin, Ireland, (2)Psychiatry, Trinity College Dublin, Dublin, Ireland, (3)Department of Engineering, Trinity College Dublin, Dublin, Ireland

238 ▸166.238 Validation of the Spanish Version of the M-CHAT-R/F within the Public Health System M. Magan Maganto[1], A. Aranz-Hernandez[1], M. Martinez-Velarte[1], S. Manso[1], A. De Pablos De La Morena[1], P. Garcia Primo[2], M. Posada[3], A. B. Sanchez-Garcia[1] and R. Canal-Bedia[1], (1)University of Salamanca, Salamanca, Spain, (2)Institute of Rare Diseases Research, IIIER, Carlos III National Health Institute, Madrid, Spain, (3)Carlos III National Health Institute, Madrid, Spain

239 166.239 Variance in Autism Prevalence Across States: Links with Insurance Policy, Availability of Clinical Resources, Proximity to Research Institutions, and Presence of Awareness-Raising Organizations J. S. Kester[1], T. L. Hill[1], L. B. Swineford[2] and C. N. Baker[1], (1)Department of Psychology, Tulane University, New Orleans, LA, (2)Department of Speech and Hearing Sciences, Washington State University, Spokane, WA

Special Interest Groups (SIGs)

Saturday, May 14, 2016: 7:15 AM - 8:45 AM
Location listed under each session

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

7:15 AM - 8:45 AM - Room 307

SIG Leaders: Mikle South
Co-Leader: Alana McVey

Symptoms of anxiety significantly increase individual impairment and impact on families and communities. The goal of this SIG is to facilitate integration of research related to basic physiological mechanisms, measurement development, and intervention. New themes for this year's meeting include discussion of next steps for how to adapt treatment for ASD, characterization of marked gender differences in anxiety presentations, and how to measure and treat anxiety in less able individuals with ASD. The SIG will include brief presentations from young investigators including students and postdocs. We will then organize smaller groups according to the areas of biological frameworks, measurement, and treatment. Priority will be to develop networks for application for relevant research funding, and opportunities for submission of upcoming papers. Finally we will touch base with the student network headed by Alana McVey with a presentation on mentoring tips and a "speed dating" for matching potential mentors with student applicants.

169 - Bridging the Research/Application Gap: Incorporating Autistic Intellect in Research Design and Evaluation

7:15 AM - 8:45 AM - Room 308

SIG Leaders: Dena L. Gassner and Stephen Shore

Recent IMFAR gatherings have emphasized the need to close the gap between the bench and the community in regard to autism outcomes. This SIG seeks to create dialogue about what autistic individuals can bring to the research bench as contributors to design, analysis and review of potential research. One case example; a study on autistic women wherein such collaboration enhanced the quality and outcomes will be shared. This paradigm shift from "for people with autism" to "with autistic collaboration" is key in order to target, prioritize and expedite proactive outcomes. We will also discuss making these situations meaningful for the person with autism, rather than tokenistic or demeaning in nature. Finally, we will discuss changes needed to insure an accessible and inclusive workplace for autistic researchers.

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

7:15 AM - 8:45 AM - Room 309

SIG Leaders: Heather Volk
Co-Leader: Shannon Ellis

The goal of this SIG for 2016 is to facilitate and increase the presence of gene-environment interaction studies in ASD. We seek to bring together researchers from epidemiology, environmental science, genetics, and neurobiology to brainstorm strategies to facilitate interdisciplinary collaboration and research progress. Building on the first year of this SIG (IMFAR 2015), we will use this time to present an overview of statistical methods and study designs used for gene-environment research. We will also highlight work in progress in the area of gene-environment interaction in ASD research with the goals of fostering future collaborative efforts, increasing the number of studies addressing interaction hypotheses, and furthering examination of mechanisms in this work. Presentations will come from experts in statistical methods, animal studies, neurobiology, genetics, and epidemiology.

Welcome Address and Sponsor Update

8:45 - Welcome from IMFAR Organizers
8:50 - Simons Foundation Update
Hall B

Keynote Address

173 - "Moving the Needle" with Life Course Research on Autism
9:00 AM - 10:00 AM - Hall B

Speaker: Paul Shattuck, *A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA*

There have been many calls to "move the needle" on adult outcomes. What kinds of research might influence population-level outcomes and build the "gauges" that will let us see if the adult outcomes needle is moving over time? A life course perspective on autism has roots in sociology, public health and ecological models of human development. I will selectively describe some major tenets from this perspective. Then I will illustrate ways the AJ Drexel Autism Institute's Life Course Outcomes research team has sought to examine specific topics and our attempts to connect research to policy and practice. Poor young adult outcomes are occurring despite historic record-setting levels of expenditures on research and interventions. My talk aims to stimulate discussion about how our field can tighten the linkage between research and improved outcomes that are observable at a population level.

Keynote Panel Session

174 - Life Course and Ecological Perspectives on Autism
10:30 AM - 12:30 PM - Hall B

Session Chair: P. Shattuck, *A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA*

This panel's purpose is to illustrate a range of types of questions and methods informed by life course and ecological perspectives. In general, these perspectives emphasize the social context of development and interventions, how social role attainment and performance intersect with social institutions, and a longitudinal perspective on individual development that pays particular attention to transitions and turning points. How life turns out is not solely a function of one's behaviors, symptoms and individual abilities. Studies reported as part of this panel will examine topics including social networks and the social dynamics of intervention, barriers to positive outcomes during the transition to adulthood, stigma, and advocacy preparedness as a target of intervention.

10:30 174.001 Out in the Cold: Adults with Autism Spectrum Disorders Post High School C. Anderson[1] and A. Lupfer[2], (1)Department of Interprofessional Health Studies, Towson University, Towson, MD, (2)Towson University, Towson, MD

11:00 174.002 Toward Social Acceptance of Autism: Listening to Autistic People S. K. Kapp[1] and K. Gillespie-Lynch[2], (1)University of California, Los Angeles, Los Angeles, CA, (2)City University of New York, College of Staten Island, Staten Island, NY

11:30 174.003 Measuring Changes in Collaborative Networks Among Parents and Autism Intervention Providers E. McGhee Hassrick[1] and K. Carley[2], (1)Weill Cornell Medical College, Ossining, NY, (2) Carnegie Mellon University, Pittsburgh, PA

12:00 174.004 Ecological Approaches to Transition Interventions in ASD: Training Parents to More Effectively Navigate the Adult Service System J. L. Taylor[1], R. Hodapp[2], M. Burke[3] and C. Rabideau[2], (1)Vanderbilt Kennedy Center, Nashville, TN, (2) Vanderbilt University, Nashville, TN, (3)University of Illinois, Urbana-Champaign, Urbana, IL

Panel Session

175 - Towards Big Data Approaches in Eye Tracking
10:30 AM - 12:30 PM - Room 307

Session Chair: F. Shic, *Yale Child Study Center, Yale University School of Medicine, New Haven, CT*

Discussant: A. Klin, *Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA*

Eye tracking has become a core research methodology for understanding human development, social cognition, and neuropsychiatric conditions. In this panel, we follow the next logical evolution of eye tracking in autism research towards large scale studies that begin to blur the line between research technique and practical tool. The thematically-linked presentations in this panel report on new eye tracking findings involving four institutions and 1,808 unique participants including 696 individuals with ASD. Weaving between the science enabled by eye tracking and the eye tracking enabled by methodological advances, the goal of this panel is to provide perspectives on (1) what eye tracking across large samples tells us about autism, (2) the potential of eye tracking as a practical tool for discovery, therapeutics, and phenotyping, and (3) the methodological issues that must be addressed to enable the next generation of big data studies using eye tracking in autism research.

10:30 175.001 The Search for Biomarkers and Clinically Meaningful Subtypes of ASD Based on Eye Tracking Data K. Pierce[1], A. Moore[2], S. Pence[1], C. Carter[1], D. Cha[1] and E. Courchesne[1], (1) Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA, (2)University of California, San Diego, La Jolla, CA

10:55 175.002 Large Scale Eye Tracking in EU-AIMS Longitudinal Autism Research Project (LEAP): Methods and Preliminary Findings from a Biological Motion Task L. Mason[1], F. Shic[2], E. Loth[3], T. Banaschewski[4], S. Baron-Cohen[5], S. Bolte[6], T. Bourgeron[7], T. Charman[8], S. Durston[9], M. H. Johnson[10], A. M. M. Persico[11], J. K. Buitelaar[12], D. G. Murphy[13] and W. Spooren[14], (1)European Autism Interventions - A Multicentre Study for Developing New Medications, Basel, Switzerland, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Institute of Psychiatry, King's College London, London, England, United Kingdom of Great Britain and Northern Ireland, (4)University of Heidelberg, Heidelberg, Germany, (5)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (6)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden, (7)Institute Pasteur, Paris, France, (8)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9)Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, Netherlands, (10)Birkbeck, University of London, London, United Kingdom of Great Britain and Northern Ireland, (11)Child and Adolescent Neuropsychiatry Unit, Lab of Molecular Psychiatry and Neurogenics, University Campus Bio-Medico, Rome, Italy, (12) Radboud University Medical Centre, Nijmegen, Netherlands, (13) Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (14)Roche, Basel, Switzerland

11:20 175.003 Children with ASD Look Less at Faces When It Really Matters J. Parish-Morris[1], C. Chevallier[2], B. E. Yerys[3], J. Herrington[4], E. S. Brodkin[5] and R. T. Schultz[6], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Laboratoire de Neurosciences Cognitives, INSERM, Paris, France, (3)The Center for Autism Research, Philadelphia, PA, (4)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)University of Pennsylvania, Philadelphia, PA, (6)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

11:45 175.004 Eye Tracking in Between: Gaze Behaviors on Structural Trial Components in Toddlers with ASD F. Shic[1], Q. Wang[1], C. A. Wall[1], A. Naples[2], S. Macari[1] and K. Chawarska[1], (1) Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT

12:10 Discussant

Panel Session
176 - Recent Advances in Statistical Methods for Autism Research
10:30 AM - 12:30 PM - Room 308

Session Chair: E. Stuart, *Johns Hopkins School of Public Health, Baltimore, MD*

Discussant: E. Stuart, *Johns Hopkins School of Public Health, Baltimore, MD*

Many complexities arise when studying individuals with Autism Spectrum Disorders (ASD), including challenges in measuring key constructs as well as in estimating the effects of exposures or interventions. This panel will highlight recent advances in statistical methods that are relevant for autism research. The first talk will discuss measurement challenges and specifically how to use Item Response Theory to equate ADOS modules 1 and 2, allowing longitudinal analysis across time. The other three talks will discuss various advances in estimating causal effects: innovative randomized designs for studying adaptive interventions (with three examples of using these designs to study interventions for children with ASD), clever use of non-experimental data to estimate the effects of non-randomized exposures (applied to examining the effects of antidepressant use during pregnancy), and the use of propensity scores to equate two groups (applied to examining the associations between prenatal nutritional supplementation and ASD). Attendees will come away with a better understanding of advanced statistical methods and how new methods can help them obtain better answers to more nuanced questions of relevance to autism research.

10:30 176.001 Development and Validation of a Harmonized Scale of Autism Symptom Severity Across ADOS Modules 1 and 2: A Bsrc Study A. Gross[1], L. Kalb[2], G. S. Young[3], E. Stuart[2], R. Landa[4], T. Charman[5], K. Chawarska[6], T. Hutman[7], D. S. Messinger[8], S. Ozonoff[9], W. L. Stone[10], H. Tager-Flusberg[11] and L. Zwaigenbaum[12], (1)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Johns Hopkins School of Public Health, Baltimore, MD, (3)Psychiatry & Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (4)The Kennedy Krieger Institute, Baltimore, MD, (5) Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (6)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (7)University of California Los Angeles, Los Angeles, CA, (8) Psychology, University of Miami, Coral Gables, FL, (9)UC Davis MIND Institute, Sacramento, CA, (10)Department of Psychology, University of Washington, Seattle, WA, (11)Boston University, Boston, MA, (12)University of Alberta, Edmonton, AB, Canada

10:55 176.002 Adaptive Interventions and SMART Designs: Three Case Studies in Autism D. Almirall[1] and C. Kasari[2], (1)University of Michigan, Ann Arbor, MI, (2)University of California Los Angeles, Los Angeles, CA

11:20 176.003 Prenatal Nutritional Supplementation and ASD: Causal Inference Analyses E. A. DeVilbiss[1], C. Magnusson[2], R. M. Gardner[2], D. Rai[3], C. J. Newschaffer[4], K. Lyall[4], C. Dalman[2] and B. Lee[1], (1)Drexel University, Philadelphia, PA, (2)Karolinska Institutet, Stockholm, Sweden, (3)University of Bristol, Bristol, United Kingdom, (4)A.J. Drexel Autism Institute, Philadelphia, PA

11:45 176.004 Clever Analysis of Nonheritable Risk Factors: Maternal Use of Antidepressants during Pregnancy and Risk of ASD B. Lee[1] and C. J. Newschaffer[2], (1)Drexel University, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Philadelphia, PA

12:10 Discussant

Panel Session
177 - Understanding Cultural Differences in Diagnostic and Treatment Services for Children with ASD
10:30 AM - 12:30 PM - Room 309

Session Chair: J. S. Singh, *Georgia Institute of Technology, Atlanta, GA*

Discussant: D. L. Robins, *Drexel University, Philadelphia, PA*

Despite the growing prevalence of ASD worldwide, there are disparities to diagnosis and treatment services especially for racial and ethnic minorities in the U.S. and low and middle-income countries (LMIC). The purpose of this panel is to share research on the utility of diagnostic and screening tools for culturally diverse communities and examine cultural differences in diagnosis and services in U.S. Latino populations and two LMIC countries, Bangladesh and South Africa. The panel will consist of four papers and Dr. Diana Robins will serve as the discussant. The first paper examines the processes of culturally adapting the ADOS-2 and ADI-R in rural Bangladesh and the use of the Social Communication Questionnaire. The second paper qualitatively analyzes contextual factors and acceptability of a caregiver-mediated early ASD intervention in South Africa. The third paper evaluates the utility of the Spanish ADI-R in distinguishing between ASD and DD in a U.S. based Latino population. The final paper surveys whether there are ethnic disparities between Latino and White children with ASD in specialty autism-related services, and whether condition severity moderates the relationship between ethnicity and receipt of autism services.

10:30 ▸177.001 Cultural Adaptations in ASD Diagnostic Assessments and Case Determination in a Rural Region of Bangladesh **L. C. Lee**[1], S. Risi[2], H. Rahman[3], A. Hasmot[3], A. A. M. Hanif[3], S. Shaikh[3], S. Mehra[4], M. Mitra[5], L. S. F. Wu[6], N. Z. Khan[7], K. West[5] and P. Christian[6], (1)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)University of Michigan, Ann Arbor, MI, (3)Johns Hopkins University Bangladesh, Gaibandha, Bangladesh, (4)Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (5)International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (6)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7) Pediatric Neuroscience, Dhaka Shishu Children's Hospital, Dhaka, Bangladesh

10:55 ▸177.002 Adapting Caregiver-Mediated Early Autism Interventions in South Africa: Contextual Factors and Acceptability of Caregiver Involvement **L. Franz**[1], J. Guler[2], N. Seris[3], N. Shabalala[4] and P. J. de Vries[5], (1)Duke Center for Autism and Brain Development, Duke University School of Medicine, Durham, NC, (2)Duke University, Durham, NC, (3)Psychology, University of Cape Town, Cape Town, South Africa, (4)University of Cape Town, Cape Town, South Africa, (5)Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

11:20 ▸177.003 Assessing Differences in Lifetime Item Scores of the Spanish ADI-R in Latino Children with ASD and Children with DD **S. B. Vanegas**[1] and S. Magana[2], (1)Disability and Human Development, University of Illinois at Chicago, Chicago, IL, (2) University of Illinois at Chicago, Chicago, IL

11:45 ▸177.004 Severity and Latino Ethnicity in Specialty Services for Children with Autism Spectrum Disorder **S. Magana**[1], S. Parish[2] and E. Son[3], (1)University of Illinois at Chicago, Chicago, IL, (2)Brandies University, Waltham, MA, (3)Social Work, College of Staten Island, Staten Island, NY

12:10 Discussant

Panel Session
178 - Efforts Towards a More Cohesive Understanding of Anxiety in ASD: Correlates and Underlying Mechanisms
10:30 AM - 12:30 PM - Room 310

Session Co-Chairs: N. L. Kreiser, *Kennedy Krieger Institute, Baltimore, MD* and C. E. Pugliese, *Children's National Medical Center, Rockville, MD*

Discussant: M. South, *Brigham Young University, Provo, UT*

Anxiety is a common co-occurring problem among individuals with ASD. However, the phenomenology, correlates and mechanisms of anxiety in this population remain poorly understood. The existing research has identified executive functioning (Lawson et al., 2015; Lopez, Lincoln, Ozonoff, & Lai, 2005), emotion regulation (White et al., 2014), and dispositional traits (i.e., Intolerance of Uncertainty; Boulter et al., 2014; Chamberlain et al., 2013) as potential correlates of anxiety in ASD. Physiological and fear conditioning processes (e.g., Chamberlain et al., 2013; South et al., 2011; Kleinhans et al., 2010) as well as brain circuitry related to anxiety in ASD have also been explored, though findings have been inconsistent. This panel attempts to explore several identified contributors to anxiety in ASD in an effort to move towards a more integrated understanding of neurobiological and psychological processes underlying anxiety in ASD. Panel presentations explore co-occurring anxiety in ASD in relationship to the following constructs: dimensions of emotion regulation impairment, profiles of executive functioning difficulties, brain circuitry (i.e., role of prefrontal cortex regions), dispositional traits (i.e., intolerance of uncertainty), and core ASD deficits. Integration of study findings, conceptual and methodological limitations and considerations, and future research directions will be discussed.

10:30 178.001 The Underlying Structure of Emotion Regulation Impairment in ASD **C. A. Mazefsky**[1], L. Yu[2], S. W. White[3] and M. Siegel[4], (1)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (2)University of Pittsburgh School of Medicine, Pittsburgh, PA, (3)Virginia Polytechnic Institute and State University, Blacksburg, VA, (4)Maine Medical Center Research Institute - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME

10:55 178.002 Differentiating Profiles of Anxiety and Executive Function in ASD without ID **C. E. Pugliese**[1], L. G. Anthony[1], X. You[2], A. C. Armour[3], Y. Granader[1] and L. Kenworthy[4], (1)Children's National Medical Center, Rockville, MD, (2)Children's National Health System, Washington, DC, (3)Children's National Medical Center, Arlington, VA, (4)Children's Research Institute, Children's National Medical Center, Rockville, MD

11:20 178.003 The Relationship Between Intolerance of Uncertainty, Core ASD Deficits, and Anxiety **N. L. Kreiser**[1], A. Keefer[1,2], V. Singh[1], S. H. Mostofsky[3] and R. A. Vasa[1], (1)Kennedy Krieger Institute, Baltimore, MD, (2)School of Medicine, Johns Hopkins University, Baltimore, MD, (3)Johns Hopkins School of Medicine, Baltimore, MD

11:45 178.004 The Neurobiology of Emotion Regulation Problems and Co-Occurring Anxiety in ASD **J. Herrington**[1], A. McVey[2], J. C. Bush[3], K. Rump[4], J. Worley[5], L. R. Guy[6], J. Pandey[7], J. Miller[8] and R. T. Schultz[9], (1)The Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Marquette University, Milwaukee, WI, (3)Indiana University, Bloomington, IN, (4)The Center for Autism Research, Philadelphia, PA, (5)CHOP, Blue Bell, PA, (6)TEACCH Autism Program, University of North Carolina at Chapel Hill, Greensboro, NC, (7)Children's Hospital of Philadelphia, Philadelphia, PA, (8)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (9)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

12:10 Discussant

Poster Session
179 - Brain Structure (MRI, neuropathology)
11:30 AM - 1:30 PM - Hall A

1 179.001 A Longitudinal MRI Study of Subcortical Brain Development in Infants Who Develop Autism and Infants with Fragile X Syndrome **M. D. Shen**[1], M. Styner[1], M. R. Swanson[1], J. J. Wolff[2], J. T. Elison[2], R. G. Smith[1], M. M. Graves[1], K. Botteron[3], S. Dager[4], R. T. Schultz[5], L. Zwaigenbaum[6], A. M. Estes[7], J. Piven[1], H. C. Hazlett[8] and .. The IBIS Network[1], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of Minnesota, Minneapolis, MN, (3)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (4)University of Washington School of Medicine, Seattle, WA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)University of Alberta, Edmonton, AB, Canada, (7) University of Washington Autism Center, Seattle, WA, (8)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC

2 179.002 Age, Verbal IQ and Autism Severity Information Improves ASD Classification Based on Brain Morphometry **G. J. Katuwal**[1,2], N. D. Cahill[3], S. A. Baum[4] and **A. M. Michael**[1], (1)Autism and Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (2)Center for Imaging Science, Rochester Institute of Technology, Rochester, NY, (3)School of Mathematical Sciences, Rochester Institute of Technology, Rochester, NY, (4)Faculty of Science, University of Manitoba, Winnipeg, MB, Canada

3 179.003 Altered Organization of the Connectome in Pre-School Aged Children with Autism Spectrum Disorder **D. Grayson**[1], D. D. Li[2], S. J. Rogers[2], D. Fair[3], C. W. Nordahl[2] and D. G. Amaral[4], (1)UC Davis Mind Institute, Davis, CA, (2)University of California at Davis, Sacramento, CA, (3)Oregon Health & Science University, Portland, OR, (4)UC Davis The M.I.N.D. Institute, Sacramento, CA

4 179.004 Association Between Microstructural Properties of the Uncinate Fasiculus and Emotion Recognition in Women with and without Autism Spectrum Conditions **A. N. Ruigrok**[1], M. C. Lai[2,3,4], M. V. Lombardo[3,5], F. dell'Acqua[6], M. Catani[6], J. Suckling[7,8,9], B. Chakrabarti[1,10], D. G. Murphy[11], C. MRC AIMS[12] and S. Baron-Cohen[3,7], (1)Department of Psychiatry, 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)Centre for Addiction and Mental Health, The Hospital for Sick Children, and Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (5)Department of Psychology and Center for Applied Neuroscience, University of Cyprus, Nikosia, Cyprus, (6)Department of Psychological Medicine and Psychiatry, Section of Brain Maturation, Kings College London, London, United Kingdom, (7)Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom, (8) Behavioural and Clinical Neuroscience Institute, University of Cambridge, Cambridge, United Kingdom, (9)Department of Psychiatry, Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom, (10)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom, (11)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (12)Autism Research Centre, University of Cambridge; the Institute of Psychiatry (IoP) at King's College, London; Autism Research Group, University of Oxford, Cambridge, United Kingdom

5 179.005 Associations Between Cortical Thickness and Social Cognition in Autism Spectrum Disorders **K. A. R. Doyle-Thomas**[1], N. E. Foster[2], A. Kushki[3], C. Horlin[4], A. Tryfon[5], K. L. Hyde[6], A. C. Evans[6], J. D. Lewis[6], L. Zwaigenbaum[7] and E. Anagnostou[8], (1)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)University of Montreal, Montreal, QC, Canada, (3)Bloorview Research Institute, Toronto, ON, Canada, (4)Holland Bloorview, Toronto, ON, Canada, (5)McGill University, Montreal, QC, Canada, (6)Montreal Neurological Institute, Montreal, QC, Canada, (7)University of Alberta, Edmonton, AB, Canada, (8)University of Toronto, Toronto, ON, Canada

6 179.006 Asymmetry of Fusiform Structure in ASD and Its Association with Symptom Severity **C. C. Dougherty**[1], D. W. Evans[2], G. J. Katuwal[1,3] and A. M. Michael[1], (1)Autism and Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (2)Department of Psychology, Bucknell University, Lewisburg, PA, (3)Center for Imaging Science, Rochester Institute of Technology, Rochester, NY

7 179.007 Atypical Language-Related Asymmetry Stratifies Male Individuals with Autism with and without Language Delay **D. L. Floris**[1,2], M. C. Lai[3,4,5], T. Auer[6], M. V. Lombardo[3,7], C. Ecker[8], B. Chakrabarti[1,9], S. J. Wheelwright[1], E. Bullmore[10,11,12,13], C. MRC AIMS[14], D. G. Murphy[8], S. Baron-Cohen[3,10,13] and J. Suckling[10,11,12,13], (1)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Department of Child and Adolescent Psychiatry, The Child Study Center at New York University Langone Medical Center, New York City, NY, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)Centre for Addiction and Mental Health, The Hospital for Sick Children, and Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (5)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (6)MRC Cognition and Brain Sciences Unit, University of Cambridge, Cambridge, United Kingdom, (7)Department of Psychology and Center for Applied Neuroscience, University of Cyprus, Nikosia, Cyprus, (8) Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (9)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom, (10)Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom, (11) Department of Psychiatry, Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom, (12)National Institute of Health Research, Cambridge Biomedical Research Centre, Cambridge, United Kingdom, (13)Behavioural and Clinical Neuroscience Institute, University of Cambridge, Cambridge, United Kingdom, (14)Autism Research Centre, University of Cambridge; the Institute of Psychiatry (IoP) at King's College, London; Autism Research Group, University of Oxford, Cambridge, United Kingdom

8 179.008 Atypical Patterns of Gyrification in Preschool-Aged Boys with Autism Spectrum Disorder **L. Libero**[1], M. Schaer[2], H. Ohta[3], S. J. Rogers[4], D. G. Amaral[5] and C. W. Nordahl[4], (1)UC Davis MIND Institute, Sacramento, CA, (2)Stanford University, Palo Alto, CA, (3)Showa University, Tokyo, Japan, (4)University of California at Davis, Sacramento, CA, (5)UC Davis The M.I.N.D. Institute, Sacramento, CA

9 179.009 Autism Spectrum Disorder Is Characterized By Structural Under-Connectivity in Reward Circuitry **B. Tunc**[1], D. Parker[1], R. T. Schultz[2,3] and R. Verma[1], (1)Center for Biomedical Image Computing and Analytics, University of Pennsylvania, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Departments of Pediatrics and Psychiatry, University of Pennsylvania, Philadelphia, PA

10 179.010 Autism Spectrum Disorder Liability Is Modulated Along a Gender Continuum from the Female to Male Neuroanatomical Brain Phenotype **D. Andrews**[1], M. Gudbrandsen[1], A. Marquand[2,3], E. Daly[1], C. M. Murphy[1], S. Baron-Cohen[4], M. C. Lai[4,5,6], M. V. Lombardo[4,7], A. N. Ruigrok[4], E. Bullmore[4,8], J. Suckling[4], S. C. Williams[2], M. Craig[1], D. G. Murphy[1] and C. Ecker[1], (1)Sackler Institute for Translational Neurodevelopment, Department of Forensic and Neurodevelopmental Sciences,, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (3)Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (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)Centre for Addiction and Mental Health, The Hospital for Sick Children, and Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (7)Department of Psychology and Center for Applied Neuroscience, University of Cyprus, Nikosia, Cyprus, (8)Department of Psychiatry, Brain Mapping Unit, University of Cambridge, Cambridge, United Kingdom

11 179.011 Autism and Early Exposure to the Extrauterine Enviroment N. Padilla[1], **E. Eklof**[1], G. Martensson[1], H. Lagercrantz[1], S. Bolte[2] and U. Aden[1], (1)Department of Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (2)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden

12 179.012 Brain Morphometry of Dimensional Autism: A Twin Study **E. Cauvet**[1], A. Van't Westeinde[1], K. Mevel[1,2], R. Toro[3] and S. Bolte[4], (1)Karolinska Institutet, Stockholm, Sweden, (2)LaPsyDÉ UMR CNRS 8240, Universités Paris Descartes et Caen Normandie - Sorbonne Paris Cité -GIP Cyceron, Paris, France, (3)Institut Pasteur, Paris, France, (4) Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden

13 179.013 Cortical Correlates of Gustatory and Olfactory Avoidance in Autism **G. Wallace**[1], H. S. Popal[2], E. I. White[2], K. Simmons[3], L. Kenworthy[4] and A. Martin[2], (1)The George Washington University, Washington, DC, (2)NIMH, Bethesda, MD, (3)Laureate Institute for Brain Research, Tulsa, OK, (4)Children's Research Institute, Children's National Medical Center, Rockville, MD

14 179.014 Coupling Between Global and Regional Brain Structural Variation in Autism Is Modulated By Symptom Severity **N. E. Foster**[1,2], M. Sharda[1], K. A. R. Doyle-Thomas[3], A. Tryfon[1,2], E. Anagnostou[3,4], A. C. Evans[2], L. Zwaigenbaum[5], J. D. Lewis[2], J. P. Lerch[6], K. L. Hyde[1,2] and .. NeuroDevNet ASD Imaging Group[7], (1)International Laboratory of Brain, Music and Sound Research, University of Montreal, Montreal, QC, Canada, (2)Montreal Neurological Institute, Montreal, QC, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)University of Alberta, Edmonton, AB, Canada, (6)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (7) NeuroDevNet, Vancouver, BC, Canada

15 179.015 Diffusivity Measures Detect Changes in Cellular Organisation in the Cortex Associated with Elevated Glutamate in ASD: A 7T MRS and Ex Vivo DTI Study **S. A. Chance**[1], M. Torso[1], R. McKavanagh[1], K. Miller[1] and M. Jenkinson[2], (1)University of Oxford, Oxford, United Kingdom, (2)NDCN (FMRIB), University of Oxford, Oxford, United Kingdom

16 179.016 Disruption of Creb-Dependent Transcription Alters Brain Anatomy **D. A. Vousden**, M. C. van Eede, L. Spencer Noakes, B. J. Nieman and J. P. Lerch, Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada

17 179.017 Dysgenesis of the Corpus Callosum As Evidence of Developmental Defects of Long Distance Connectivity in Autism **J. Wegiel**[1], W. Kaczmarski[2], T. Wisniewski[3], W. T. Brown[4], K. K. Chadman[5], E. London[6], K. Nowicki[3], I. Kuchna[6], S. Y. Ma[3] and J. Wegiel[5], (1) Developmental Neurobiology, New York State IBR, Staten Island, NY, (2) Developmental Neurobiology, 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)Human Genetics, Institute for Basic Research in DD, Staten Island, NY, (5)Developmental Neurobiology, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (6)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY

18 179.018 Electron Microscopic Analysis of Myelin Thickness and Oligodendrocytes in Autism **T. A. Avino**[1] and C. M. Schumann[2], (1) University of California at Davis MIND Institute, Sacramento, CA, (2)UC Davis MIND Institute, Sacramento, CA

19 179.019 Finding Individual Developmental Brain Circuitry and Brain-Behavior Associations in Autism By a New Multivariate Crossmatch Method **N. Lange**[1], D. C. Dean[2], B. G. Travers[3], B. A. Zielinski[4], A. L. Alexander[2] and J. E. Lainhart[2], (1)Psychiatry, Harvard Medical School, Boston, MA, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI, (3)Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI, (4)Pediatrics and Neurology, University of Utah, Salt Lake City, UT

20 ▸179.020 Gray Matter Volume Deficit and Neuropsychological Performance in First Degree Relatives of Children with Autism Spectrum Disorder **S. Srinath**, J. V. Kommu, G. Venkatasubramanian, K. Kumar, S. C. Girimaji, S. P. Seshadri, C. Prasad, S. M. Kaku and T. Kandavel, National Institute of Mental Health and Neurosciences, Bangalore, India

21 179.021 Increased Sensorimotor U-Fiber Connections in Autism: Localization and Association with Symptom Severity **C. Buckless**[1], E. Bordbar[1,2], S. H. Mostofsky[2] and D. Crocetti[1], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD

22 179.022 Longitudinal Microstructure of the Thalamus and Anterior Limb of the Internal Capsule in Individuals with Autism Spectrum Disorder **K. McLaughlin**[1], B. G. Travers[2], D. C. Dean[1], D. Tromp[1], N. Adluru[1], D. Destiche[1], D. P. Samsin[1], M. D. Prigge[3], A. Froehlich[4], E. D. Bigler[5], N. Lange[6], A. L. Alexander[1] and J. E. Lainhart[1], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI, (3)Pediatrics, University of Utah, Salt Lake City, UT, (4)University of Utah, Salt Lake City, UT, (5)Psychology/Neuroscience Center, Brigham Young University, Provo, UT, (6)McLean Hospital, Cambridge, MA

23 179.023 Longitudinal Trajectories of Large-Scale Brain Network Architecture in Autism **B. A. Zielinski**[1], M. D. Prigge[2], M. White[2], D. C. Dean[3], B. G. Travers[4], A. L. Alexander[3], N. Lange[5], E. D. Bigler[6] and J. E. Lainhart[3], (1)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (2)Pediatrics, University of Utah, Salt Lake City, UT, (3)Waisman Center, University of Wisconsin-Madison, Madison, WI, (4)Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI, (5)McLean Hospital, Cambridge, MA, (6)Psychology/ Neuroscience Center, Brigham Young University, Provo, UT

24 179.024 Longitudinal, Voxel-Based Analysis of White Matter Contributions to Processing Speed in Individuals with Autism Spectrum Disorder **B. G. Travers**[1], D. C. Dean[2], D. Tromp[2], N. Adluru[2], D. Destiche[2], B. A. Zielinski[3], M. D. Prigge[4], A. Froehlich[5], J. S. Anderson[5], P. T. Fletcher[5], E. D. Bigler[6], N. Lange[7], A. L. Alexander[2] and J. E. Lainhart[2], (1) Occupational Therapy Program in Kinesiology, University of Wisconsin Madison, Madison, WI, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI, (3)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (4)Pediatrics, University of Utah, Salt Lake City, UT, (5)University of Utah, Salt Lake City, UT, (6)Psychology/Neuroscience Center, Brigham Young University, Provo, UT, (7)McLean Hospital, Cambridge, MA

25 179.025 Multicomponent Relaxometry in Autism Spectrum Disorder: Preliminary Insights **D. C. Dean**[1], A. Freeman[1], D. P. Samsin[1], S. Kecskemeti[1], N. Matsunami[2], M. Leppert[2], N. Lange[3], J. E. Lainhart[1] and A. L. Alexander[1], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2)University of Utah, Salt Lake City, UT, (3)McLean Hospital, Cambridge, MA

26 179.026 Orbitofrontal Cortex Sulcogyral Anatomy and Value Signals: An Interaction of Structure and Function **M. A. Patti**[1], C. Hyde[1], K. M. Adamson[1], H. Zhang[2], S. Deitrick[1] and V. Troiani[1], (1)Geisinger Autism & Developmental Medicine Institute, Lewisburg, PA, (2)Temple University, Philadelphia, PA

27 179.027 Post-Mortem Analysis of Amygdala Neuron Morphology in ASD **R. K. Weir**, M. D. Bauman and C. M. Schumann, UC Davis MIND Institute, Sacramento, CA

28 179.028 Premature Aging in Autism: The Double Jeopardy Hypothesis of White Matter Integrity **H. M. Geurts**[1], P. C. M. Koolschijn[2], M. W. Caan[3], S. D. Olabarriaga[3] and J. Teeuw[3], (1)University of Amsterdam, Amsterdam, NH, Netherlands, (2)University of Amsterdam, Amsterdam, Netherlands, (3)Academic Medical Center, Amsterdam, Netherlands

29 179.029 Reduced Age-Related Trajectories of Fractional Anisotropy and Volume for the Left Arcuate Fasciculus in Autism **K. A. Kellett**[1], P. T. Fletcher[2], M. D. Prigge[3], N. Lange[4], E. D. Bigler[5], A. L. Alexander[6] and J. E. Lainhart[6], (1)Department of Psychology, University of Wisconsin-Madison, Madison, WI, (2)University of Utah, Salt Lake City, UT, (3)Pediatrics, University of Utah, Salt Lake City, UT, (4)McLean Hospital, Cambridge, MA, (5)Psychology/Neuroscience Center, Brigham Young University, Provo, UT, (6)Waisman Center, University of Wisconsin-Madison, Madison, WI

30 179.030 Rescue of Neuroanatomical Impairments Following Mecp2 Reactivation in Adult Mice **R. A. Allemang-Grand**[1], J. P. Lerch[2], L. Spencer-Noakes[2] and B. J. Nieman[2], (1)Hospital for Sick Children, Toronto, ON, Canada, (2)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada

31 179.031 Selective Impairments in White Matter Integrity of Right Inferior Longitudinal Fasciculus in ASD **B. Boets**[1,2,3], L. Van Eylen[4], K. Sitek[3], I. Noens[4], J. Steyaert[1], S. Sunaert[5] and J. Wagemans[6], (1)Child and Adolescent Psychiatry, KU Leuven, Leuven, Belgium, (2)Leuven Autism Research consortium (LAuRes), KU Leuven, Leuven, Belgium, (3)McGovern Institute for Brain Research, Massachusetts Institute of Technology, Cambridge, MA, (4)Parenting and Special Education Research Unit, KU Leuven, Leuven, Belgium, (5)Translational MRI, KU Leuven, Leuven, Belgium, (6)Laboratory of Experimental Psychology, KU Leuven, Leuven, Belgium

32 179.032 Structural Connectivity of the Accumbofrontal Tract in Youth with and without Autism: Associations with Behavioral Phenotypes **L. M. Hernandez**[1], J. Liu[1], C. Ponting[2], K. E. Lawrence[1], S. Y. Bookheimer[1] and M. Dapretto[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

33 179.033 Structural Features of the Mid Fusiform Sulcus in Autism Spectrum Disorders **C. Ammons**, M. E. Winslett, J. Bice, P. Patel and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL

34 179.034 Structural Language Abilities Are Related to Cortical Structure and Covariance in Autism Spectrum Disorders **M. Sharda**[1], N. E. Foster[1,2], A. Tryfon[1,2], K. A. R. Doyle-Thomas[3], E. Anagnostou[3,4], A. C. Evans[2], L. Zwaigenbaum[5], J. D. Lewis[2], J. P. Lerch[6], K. L. Hyde[1,2] and .. NeuroDevNet ASD Imaging Group[7], (1)International Laboratory of Brain, Music and Sound Research, University of Montreal, Montreal, QC, Canada, (2)Montreal Neurological Institute, Montreal, QC, Canada, (3)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)University of Alberta, Edmonton, AB, Canada, (6)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (7) NeuroDevNet, Vancouver, BC, Canada

35 179.035 The Basal Ganglia Has Altered Inhibitory Receptor Expression in Autism **K. Ganapathy Subramanian**[1], C. Brandenburg[2] and G. J. Blatt[2], (1)Hussman Institute for Autism, Baltimore, MD, (2)Hussman Institute for Autism, Inc., Baltimore, MD

36 179.036 The Number of Parvalbumin-Expressing Chandellier and Basket Cells Are Differentially Decreased in Medial Prefrontal Cortex in Autism **V. MartiÂnez Cerdeno**, J. Ariza Torres, E. Hashemi and H. Rogers, UC Davis, Sacramento, CA

37 179.037 The Rates of Incidental Perivascular Space (PVS) Findings on MRI Among Infants at High- and Low-Risk for ASD: Preliminary Results from the IBIS Study **R. F. Slomowitz**[1], J. Pandey[2], M. D. Shen[3], S. Das[4], L. MacIntyre[4], J. Wood[5], J. E. Maldarelli[6], K. Botteron[7], S. Dager[8], A. M. Estes[9], L. Zwaigenbaum[10], H. C. Hazlett[11], M. Styner[3], D. Shaw[12], R. T. Schultz[6], J. Piven[3], R. McKinstry[13] and .. The IBIS Network[3], (1)Psychology, The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)McGill Centre for Integrative Neuroscience, Montreal Neurological Institute, Montreal, QC, Canada, (5)The Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (7)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (8)University of Washington School of Medicine, Seattle, WA, (9) University of Washington Autism Center, Seattle, WA, (10)University of Alberta, Edmonton, AB, Canada, (11)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (12)Seattle Children's Hospital, Seattle, WA, (13)Washington University School of Medicine, St. Louis, MO

38 179.038 The Relationship Between Temperament and Brain Development in Infant Siblings with Autism Spectrum Disorder S. J. Paterson[1], J. J. Wolff[2], M. R. Swanson[3], J. T. Elison[2], L. Zwaigenbaum[4], A. M. Estes[5], K. Botteron[6], H. C. Hazlett[7], J. Pandey[8], R. T. Schultz[9], J. Piven[3] and .. The IBIS Network[3], (1)Department of psychology, Temple university, Philadelphia, PA, (2)University of Minnesota, Minneapolis, MN, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)University of Alberta, Edmonton, AB, Canada, (5)University of Washington Autism Center, Seattle, WA, (6)Psychiatry and Radiology, Washington University School of Medicine, St. Louis, MO, (7)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (8)Children's Hospital of Philadelphia, Philadelphia, PA, (9)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

39 ▸ 179.039 Understimulation in Autism: A Preliminary Diffusion Tensor Study Using Tract-Based Spatial Statistics S. M. Kaku, R. D. Bharath, G. Venkatasubramanian, S. Bansal, S. C. Girimaji and S. Srinath, National Institute of Mental Health and Neurosciences, Bangalore, India

40 179.040 What›s the (white) Matter in Autism Spectrum Disorder V. M. Vogan[1], B. R. Morgan[1], R. Leung[2], E. Anagnostou[3] and M. J. Taylor[4], (1)The Hospital for Sick Children, Toronto, ON, Canada, (2)Psychology, University of Toronto, Toronto, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON, Canada

41 179.041 White Matter Microstructure Is Associated with Auditory and Tactile Processing in Children with and without Sensory Processing Disorder Y. S. Chang, M. Gratiot, J. Owen, A. Brandes-Aitken, S. Desai, S. S. Hill, E. J. Marco and P. Mukherjee, University of California in San Francisco, San Francisco, CA

42 179.042 White Matter Microstructure in ASD and ADHD: A DTI Study H. Ohta[1], T. Itahashi[1], C. Kanai[1], E. Okada[1], K. Tanji[1], T. Morita[1], N. Saga[1], A. Iwanami[1], N. Kato[1] and R. Hashimoto[1,2], (1)Showa University, Tokyo, Japan, (2)Tokyo Metropolitan University, Tokyo, Japan

Poster Session
180 - Early Development (< 48 Months)
11:30 AM - 1:30 PM - Hall A

43 180.043 A New "Geopref Test" with Complex Social Stimuli A. Moore[1], C. Carter[2], D. Cha[2], S. Pence[2], A. Yousef[3], M. Wozniak[3], E. Courchesne[2] and K. Pierce[2], (1)University of California, San Diego, La Jolla, CA, (2)Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA, (3)Neuroscience, University of California San Diego, La Jolla, CA

44 180.044 A Novel Method for Quantifying Eye-to-Eye Gaze during Naturalistic Social Interactions Finds Preliminary Differences Between ASD and TD Toddlers S. R. Edmunds[1], A. Rozga[2], Y. Li[2], L. V. Ibanez[1], E. A. Karp[1], J. M. Rehg[2] and W. L. Stone[1], (1)Department of Psychology, University of Washington, Seattle, WA, (2)Georgia Institute of Technology, Atlanta, GA

45 180.045 Accuracy of Parental Report As Compared to Standardized Assessment: A Comparison of the Ages and Stages to the Mullen and ADOS T. Hamner[1], C. Klaiman[2] and S. Richardson[1], (1)Marcus Autism Center, Atlanta, GA, (2)Emory University, Atlanta, GA

46 180.046 Action Prediction in Infants at-Risk for Autism: Neural and Behavioral Findings R. Braukmann[1,2], C. van den Boomen[3,4], N. M. Munsters[3,4], H. Bekkering[2], J. K. Buitelaar[1] and S. Hunnius[2], (1)Radboud University Medical Centre, Nijmegen, Netherlands, (2)Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands, (3)Utrecht University, Utrecht, UT, Netherlands, (4)University Medical Centre Utrecht, Utrecht, Netherlands

47 ▸ 180.047 Adaptive Functioning in High-Functioning and Low-Functioning Preschool Children with Autism Spectrum Disorders I. C. Chen and C. C. Wu, Department of Psychology, Kaohsiung Medical University, Kaohsiung City, Taiwan

48 180.048 Agreement Between Early Intervention Staff Impressions and Screening Tools for Autism Spectrum Disorder N. Rasuratnam[1], M. Penner[2], C. L. Saul[3], J. A. Brian[4] and W. Roberts[5], (1)ISAND, Scarborough, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Community and Health Services, York Region Early Intervention Services, Newmarket, ON, Canada, (4)Bloorview Research Institute, Toronto, ON, Canada, (5)University of Toronto, toronto, ON, Canada

49 180.049 Analysis of Alpha Power in 9-Month Old Infants at High-Risk of ASD A. Miquelajauregui, C. Ponting, A. Marin, J. Frohlich and S. S. Jeste, Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

50 180.050 Assessment of Intelligence: A Comparison of Intellectual and Adaptive Functioning in Preschool Autistic Children D. Girard[1], V. Courchesne[2], E. Danis[1], M. Descamps[1] and I. Soulières[1], (1)University of Quebec in Montreal, Montreal, QC, Canada, (2)University of Montreal, Montréal, QC, Canada

51 180.051 Atypical Relationship Between Anxiety and Approach-Withdrawal Behavior in Young Children with Autism H. J. Nuske[1,2], D. Hedley[2] and C. Dissanayake[2], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

52 180.052 Atypical Visual Attention and Autism Severity in Infants at High Risk for Autism Spectrum Disorders D. Reisinger, A. Brewe and J. E. Roberts, Psychology, University of South Carolina, Columbia, SC

53 180.053 Autism Symptoms Profiles in Toddlers with Tuberous Sclerosis Complex S. S. Jeste[1], K. J. Varcin[2], G. Hellemann[3], A. Gulsrud[4], C. Kasari[5], M. Sahin[6], J. Y. Wu[7] and C. A. Nelson[8], (1)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (2)Harvard Medical School, Boston Children's Hospital, Cambridge, MA, (3)Psychiatry and Biobehavioral Sciences, UCLA Center for Autism Research and Treatment, Los Angeles, CA, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (5)University of California Los Angeles, Los Angeles, CA, (6)Department of Neurology, Boston Children's Hospital, Boston, MA, (7)UCLA, Los Angeles, CA, (8)Boston Children's Hospital/Harvard Medical School, Boston, MA

54 180.054 Behavioral Indicators of Social Fear in Preschool-Aged Children with ASD and Siblings of Children with ASD A. L. Hogan-Brown, J. Scherr and J. Roberts, Psychology, University of South Carolina, Columbia, SC

55 180.055 Behavioral Intervention Improves Social Communication Skills in Infants with Tuberous Sclerosis Complex A. Gulsrud[1], S. S. Jeste[2], N. Tu[3], S. Huberty[4], C. K. McCracken[5] and C. Kasari[3], (1)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4) Psychiatry and Biobehavioral Sciences, UCLA Center for Autism Research and Treatment, Los Angeles, CA, (5)University of California, Los Angeles, El Segundo, CA

56 ▸ 180.056 Can Joint Attention Skills be Measured Reliably? Dutch Effect Study of Jasper-Training M. E. Buruma[1] and E. M. Blijd-Hoogewys[2], (1)Infant team, INTER-PSY, Groningen, Netherlands, (2) Autism Team, INTER-PSY, Groningen, Netherlands

57 180.057 Capturing the Moment: Using the Autism Observational Scale for Infants (AOSI) to Assess the Developing Phenotype in a Prospective Sample of High Risk Children for ASD J. Pandey[1], E. Schriver[2], S. Ozonoff[3], R. Landa[4], S. E. Levy[1], A. T. Pomykacz[5], C. R. Hess[6], M. V. Hsu[7], M. D. Fallin[8], I. Hertz-Picciotto[9], L. A. Croen[10] and C. J. Newschaffer[2], (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Philadelphia, PA, (3)UC Davis MIND Institute, Sacramento, CA, (4)The Kennedy Krieger Institute, Baltimore, MD, (5)Center for Autism Research, Children's Hospital of Philadelphia-Center for Autism Research, Philadelphia, PA, (6)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (7)Kaiser Permanente ASD Center, San Jose, CA, (8)Wendy Klag Center for Autism and Developmental Disabilities, JHBSPH, Baltimore, MD, (9)Dept of Public Health Sciences, School of Medicine, UC Davis MIND Institute, Davis, CA, (10)Division of Research, Kaiser Permanente, Oakland, CA

58 180.058 Children with Persistent, Idiopathic Feeding Difficulties: An at Risk Group for Developing Autism Spectrum Disorder? P. Warreyn[1], E. Van de Sijpe[1] and I. De Groote[2], (1)Ghent University, Ghent, Belgium, (2)Ghent University Hospital, Ghent, Belgium

59 180.059 Circadian Profiles of Infants from Families with a History of Autism G. L. Glickman[1], E. M. Harrison[1] and K. R. Dobkins[2], (1)Center for Circadian Biology, University of California, San Diego, La Jolla, CA, (2) Department of Psychology, University of California, San Diego, La Jolla, CA

60 180.060 Comparison of Children with ASD at 3 Years of Age Ascertained from Community Screening in Primary Care Versus from a Prospective Infant Sibling Cohort T. N. Day[1], A. M. Wetherby[2], C. Nottke[2], A. Delehanty[3], A. M. Iosif[4] and S. Ozonoff[5], (1)Clinical Psychology, Florida State University, Tallahassee, FL, (2)Florida State University Autism Institute, Tallahassee, FL, (3)Communication Science & Disorders, Florida State University, Tallahassee, FL, (4)Public Health Sciences, University of California Davis, Davis, CA, (5)UC Davis MIND Institute, Sacramento, CA

61 180.061 Determining Predictors of Improved Cognitive Function in Children with ASD Between 3 and 6 Years of Age. Which Toddlers Improve? M. Solomon[1], A. M. Iosif[2], L. Libero[3], D. D. Li[3], S. Ozonoff[4], S. J. Rogers[3], S. Ghetti[5], C. W. Nordahl[3] and D. G. Amaral[6], (1)MIND Institute, Sacramento, CA, (2)Public Health Sciences, University of California Davis, Davis, CA, (3)University of California at Davis, Sacramento, CA, (4)UC Davis MIND Institute, Sacramento, CA, (5)Psychology, UC Davis, Davis, CA, (6)UC Davis The M.I.N.D. Institute, Sacramento, CA

62 180.062 Differences in EEG Power at 3 Months Distinguish Infants at High-Versus Low Risk for ASD K. J. Varcin[1], A. R. Levin[2], H. M. O'Leary[3], H. Tager-Flusberg[4] and C. A. Nelson[5], (1)Harvard Medical School, Boston Children's Hospital, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3)Neurology, Boston Children's Hospital, Boston, MA, (4)Boston University, Boston, MA, (5)Boston Children's Hospital/ Harvard Medical School, Boston, MA

63 180.063 Differential Habituation to Social Scenes in Toddlers with ASD, Non-ASD Developmental Delays, and No Delays N. Ludwig[1], R. A. Williamson[2], R. K. Ramsey[2], L. B. Adamson[2] and D. L. Robins[3], (1)Georgia State Univeristy, Atlanta, GA, (2)Psychology, Georgia State University, Atlanta, GA, (3)Drexel University, Philadelphia, PA

64 180.064 Diminished Autonomic Response to Social Partners in Infants Later Diagnosed with Autism Spectrum Disorder C. McCormick, S. J. Sheinkopf, T. P. Levine, L. L. LaGasse and B. M. Lester, Brown Center for the Study of Children at Risk, Women & Infants Hospital The Warren Alpert Medical School of Brown University, Providence, RI

65 180.065 Does Infant Temperament Predict Autistic Traits in Toddlers? Findings from a Prospective Longitudinal Study of Singaporean Toddlers A. Chew[1], C. S. Chee[2], D. A. Goh[3], D. Gan[3], S. B. Lim[4], P. Agarwal[5], B. Broekman[6,7], A. Rifkin-Graboi[6], S. M. Saw[8], Y. S. Chong[9], K. Kwek[10], P. D. Gluckman[6,11], M. Meaney[6,12] and I. Magiati[1], (1)Department of Psychology, National University of Singapore, Singapore, Singapore, (2)Child Development Unit, Department of Pediatrics, National University Health System, Singapore, Singapore, Singapore, (3)Department of Psychology, National University of Singapore , now at the Ministry of Social and Family Development, Singapore, Singapore, Singapore, (4) Department of Child Development, KK Women's and Children's Hospital, Singapore, Singapore, (5)Department of Neonatology,, KK Women's and Children's Hospital, Singapore, Singapore, (6)Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research (A* STAR), Singapore, Singapore, (7)Department of Psychological Medicine, National University Health System, NATIONAL UNIVERSITY OF SINGAPORE, Singapore, Singapore, (8)Saw Swee Hock School of Public Health, National University of Singapore, National University Health System, Singapore, Singapore, (9)Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research (A* STAR), Singapore; Department of Obstetrics and Gynaecology, Yong Loo Lin School of Medicine, National University of Singapore, National University Health System, Singapore, Singapore, (10)Department of Maternal Fetal Medicine, KK Women's and Children's Hospital, Singapore, Singapore, (11)Liggins Institute, University of Auckland, Auckland, New Zealand, (12) Ludmer Centre for Neuroinformatics and Mental Health and Department of Psychiatry, McGill University, Montreal, Canada

66 180.066 Early Behavioral Fear in Infants and Preschoolers at High Risk for Autism: Fragile X Syndrome Versus Autism J. Roberts[1], J. Scherr[1], A. L. Hogan-Brown[1], D. Reisinger[2] and S. L. O'Connor[1], (1) Psychology, University of South Carolina, Columbia, SC, (2)University of South Carolina, Columbia, SC

67 180.067 Early Play Behaviors in Infants at Risk for Autism J. E. Flanagan[1], B. B. Demchick[2], R. J. Parente[3], J. Delany[2], L. A. Crabtree[4], P. D. LaVesser[5] and R. Landa[6], (1)SPD Foundation, Centennial, CO, (2) Towson University, Towson, MD, (3)Psychology, Towson University, Towson, MD, (4)Towson University, Lutherville, MD, (5)University of Colorado, Denver, CO, (6)The Kennedy Krieger Institute, Baltimore, MD

68 180.068 Early Predictors of Restricted and Repetitive Behaviors in Toddlers at-Risk for ASD S. F. Fontenelle, D. Macris, K. K. Powell, S. Macari and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

69 180.069 Evidence for Language Phenotypes in Children with ASD Based on Varied, Longitudinal Assessment Measures L. Naigles[1], A. M. Mastergeorge[2], R. T. Johnson[3], C. W. Nordahl[4] and D. G. Amaral[5], (1)University of Connecticut, Storrs, CT, (2)University of Arizona, Tucson, AZ, (3)UC Davis M.I.N.D. Institute, Sacramento, CA, (4)University of California at Davis, Sacramento, CA, (5)UC Davis The M.I.N.D. Institute, Sacramento, CA

70 180.070 Evidence for Metabolomic Phenotypes Based on Analysis of Plasma from the APP Cohort **A. Smith**[1], R. Alexandridis[1], R. Burrier[1], P. West[2], L. A. Egnash[3], J. King[1], D. D. Li[4], D. G. Amaral[5] and E. Donley[1], (1)Stemina Biomarker Discovery, Madison, WI, (2)BioAnalytical Chemistry, Stemina Biomarker Discovery, Madison, WI, (3)Client Services and Operations, Stemina Biomarker Discovery, Madison, WI, (4)University of California at Davis, Sacramento, CA, (5)UC Davis The M.I.N.D. Institute, Sacramento, CA

71 180.071 Examining the Relation Between Walking and Receptive Language in Infants at Heightened Risk for Autism Spectrum Disorder **K. L. West**, N. B. Leezenbaum, J. B. Northrup and J. M. Iverson, University of Pittsburgh, Pittsburgh, PA

72 180.072 Examining the Role of Inhibitory Control in the Emotion Regulation Strategies Employed By Toddlers with and without ASD **L. DiNicola**[1], S. Macari[1], L. Flink[2], S. F. Fontenelle[1], G. Greco[3], P. Heymann[1], E. Hilton[1], S. S. Lansiquot[4], A. Milgramm[1], K. K. Powell[1] and K. Chawarska[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia, PA, (3)Boston Children's Hospital, Harvard Medical School, Boston, MA, (4)School of Nursing, Columbia University, New York, NY

73 180.073 Fear Reactivity in Toddlers with ASD: Diminished Response and Atypical Associations with Visual Attention **S. Macari**[1], L. DiNicola[1], G. Greco[2], F. Shic[1], L. Flink[3], S. S. Lansiquot[4], K. K. Powell[1], S. F. Fontenelle[1] and K. Chawarska[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Boston Children's Hospital, Harvard Medical School, Boston, MA, (3)Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia, PA, (4)School of Nursing, Columbia University, New York, NY

74 180.074 Fetal Head Growth in Children with Autistic Traits and Autism Spectrum Disorder **L. M. Blanken**[1], A. Dass[2], G. Alvares[2], J. van der Ende[3], M. Maybery[4], C. Dissanayake[5], C. Pennel[6], M. Hickey[7], F. Verhulst[3], H. Tiemeier[3], A. Whitehouse[8] and T. J. White[9], (1)Erasmus Medical Center - Sophia Children's Hospital, Leiden, Netherlands, (2) Telethon Kids Institute, West Perth, Australia, (3)Department of Child and Adolescent Psychiatry/Psychology, Erasmus MC-Sophia, Rotterdam, Netherlands, (4)University of Western Australia, Perth, Australia, (5) Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (6)The University of Western Australia, Crawley, Australia, (7) Department of Obstetrics of Gynaecology and Obstetrics, University of Melbourne, Melbourne, Australia, (8)University of Western Australia, West Perth, WA, Australia, (9)Erasmus University Medical Centre, Rotterdam, Netherlands

75 180.075 Gaze Aversion and Self-Soothing at 3-Months and Social-Communicative Outcome at 12-Months for Infants at High- and Low-Risk for ASD: An Exploration of Differences in Self-Regulatory Capacities **J. Bradshaw**[1], S. Shultz[2], C. A. Saulnier[3], W. Jones[2] and A. Klin[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta & School of Medicine, Emory University, Atlanta, GA, (2)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (3)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

77 180.077 Gaze-Contingent Event Triggering in the Social and Nonsocial Conditions **Q. Wang**, C. A. Wall, E. C. Barney, Y. A. Ahn, C. Foster, L. DiNicola, E. S. Kim, B. Li, M. Mademtzi, M. G. Perlmutter, S. Macari, K. Chawarska and F. Shic, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

78 180.078 General Gross and Fine Motor Impairment Vs Specific Deficits in Prospective Control in Three-Year-Olds with Autism Spectrum Disorder **E. Nilsson Jobs**[1], G. Gredebäck[2], S. Bolte[3] and T. Falck-Ytter[2], (1)Psychology, Uppsala University, Uppsala, Sweden, (2)Uppsala University, Uppsala, Sweden, (3)Department of Women's and Children's Health, Pediatric Neuropsychiatry Unit, Karolinska Institutet, Stockholm, Sweden

79 180.079 Identifying Attentional Differences in Children with and without ASD: A Human-Robot Interaction Study **E. C. Barney**[1], L. Boccanfuso[1], C. Foster[1], C. A. Wall[1], B. Scassellati[2], K. Chawarska[1] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Yale University, New Haven, CT

80 180.080 Incongruous Emotions during Fear-Eliciting Tasks in Children with Autism Spectrum Disorder **P. Heymann**, S. Macari, A. Milgramm, L. DiNicola, E. Hilton, K. K. Powell, S. F. Fontenelle and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

81 180.081 Infant Neuroconnectivity Is a Predictor of Social Responsiveness Deficits at Age Four **A. Ross**[1], D. Swain[2], A. Scarpa[1] and M. A. Bell[3], (1)Psychology, Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Virginia Tech, Blacksburg, VA, (3) Psychology, Virignia Tech, Blacksburg, VA

82 180.082 Initiating the 1-Year Well-Baby Check-up Approach in Early-Detection Challenged Areas: Survey Results and Initial Feasibility Findings **S. James**[1], E. C. Bacon[2], C. J. Smith[1] and K. Pierce[3], (1) Southwest Autism Research & Resource Center, Phoenix, AZ, (2) University of California San Diego, La Jolla, CA, (3)Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA

83 180.083 Insights Gained from Electrophysiological Investigation of High-Risk Infants: Early Markers of ASD in Infants with Tuberous Sclerosis Complex **C. A. Nelson**[1], K. J. Varcin[2] and S. S. Jeste[3], (1)Boston Children's Hospital/Harvard Medical School, Boston, MA, (2)Harvard Medical School, Boston Children's Hospital, Cambridge, MA, (3)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA

84 180.084 Lateralization to Speech Stimuli and Handedness in Early Development of Autism Spectrum Disorder **K. H. Finch**[1], A. Seery[2], M. R. Talbott[3], H. Tager-Flusberg[1] and C. A. Nelson[4], (1)Boston University, Boston, MA, (2)New York University School of Medicine, New York, NY, (3)University of California, Davis, Sacramento, CA, (4)Boston Children's Hospital/Harvard Medical School, Boston, MA

85 180.085 Longitudinal Charting of Infant Brain Connectomes in the First 6 Months of Life **L. Li**[1], S. Shultz[2], X. P. Hu[3], A. Klin[2] and W. Jones[2], (1)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (3)Department of Biomedical Engineering, Emory University, Atlanta, GA

86 180.086 Neural Precursors of Language in Infants at High Risk for Autism Spectrum Disorder **L. A. Edwards**[1], H. Tager-Flusberg[2] and C. A. Nelson[3], (1)Boston Children's Hospital, Boston, MA, (2)Boston University, Boston, MA, (3)Boston Children's Hospital/Harvard Medical School, Boston, MA

87 180.087 Onset, Trajectory and Pattern of Feeding Difficulties in Infants Later Diagnosed with ASD **M. B. Steinfeld**[1], G. S. Young[2] and S. Ozonoff[1], (1)UC Davis MIND Institute, Sacramento, CA, (2)Psychiatry & Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

88 180.088 Orienting Response to Social Versus Physical Audiovisual Synchrony Does Not Differ in Toddlers with ASD R. D. Sifre, W. Jones, A. Klin and S. Shultz, Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

89 180.089 Otitis Media and Expressive Language Outcomes Across Toddlers with ASDs, Language Delays, and Typical Development E. L. Fisher[1] and D. L. Robins[2], (1)Georgia State University, Atlanta, GA, (2)AJ Drexel Autism Institute, Drexel University, Philadelphia, PA

90 180.090 Parent Concerns and Early Detection of Autism Spectrum Disorder S. Saleem[1], B. G. Davidson[2], A. C. Dowd[2], M. A. Lecheler[3] and A. R. Neal-Beevers[2], (1)The University of Texas Health Science Center at Houston, Houston, TX, (2)Psychology, University of Texas at Austin, Austin, TX, (3)School Psychology, Texas State University, Austin, TX

91 ▸ 180.091 Parent-Reported Social Interaction and Race, but Not Observed Social Impairments, Predict Intervention Enrollment in Toddlers Diagnosed with ASD D. N. Abrams[1], L. B. Adamson[1], D. A. Fein[2] and D. L. Robins[3], (1)Psychology, Georgia State University, Atlanta, GA, (2) Psychology, University of Connecticut, Storrs, CT, (3)Drexel University, Philadelphia, PA

92 180.092 Parental Stress and Proband Mental Health As Predictors of Mental Health in Toddlers at High-Risk for Autism Spectrum Disorders K. Hudry[1], K. Crea[2] and C. Dissanayake[3], (1)Olga Tennison Autism Research Centre, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, Bundoora, VIC, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

93 180.093 Pupillary Light Responses in Infants at Low and High Risk for ASD J. B. Wagner[1], S. R. Scarano[1], H. Tager-Flusberg[2] and C. A. Nelson[3], (1)Department of Psychology, College of Staten Island, CUNY, Staten Island, NY, (2)Boston University, Boston, MA, (3)Boston Children's Hospital/Harvard Medical School, Boston, MA

94 180.094 Reliability of the Toddler Temperament Scale and Differences in Early Temperament Between High Risk Baby Siblings with and without Autism J. Chen, M. Barton and D. A. Fein, Psychology, University of Connecticut, Storrs, CT

95 180.095 Restricted and Repetitve Behaviors (RRBs) in Simplex and Multiplex ASD K. R. Bradbury[1], M. Barton[2] and D. A. Fein[2], (1) University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT

96 180.096 Retrospective Video Analysis of Grasp Types and Functional Actions in Infants at Heightened Risk for Autism Spectrum Disorders L. Sparaci[1], J. B. Northrup[2], O. Capirci[1] and J. M. Iverson[2], (1)Institute of Cognitive Sciences and Technologies (ISTC), National Research Council of Italy (CNR), Rome, Italy, (2)University of Pittsburgh, Pittsburgh, PA

97 180.097 Revisiting Fixation Toward Eye and Mouth Region in ASD Toddlers from the General Population: Cross Sectional and Longitudinal Analyses M. K. Kwon[1], A. Moore[2] and K. Pierce[3], (1) Neuroscience, University of California, San Diego, La Jolla, CA, (2) University of California San Diego, San Diego, CA, (3)Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA

98 180.098 Sex-Differences in 17-30 Months Old Toddlers: An Analysis of the M-CHAT R. A. Oien[1,2], L. Hart[2], S. Schjolberg[3], C. A. Wall[2], E. S. Kim[2], M. R. Eisemann[1], K. Chawarska[2], F. R. Volkmar[2] and F. Shic[2], (1)Psychology, UiT - The Arctic University of Norway, Tromsø, Norway, (2) Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Mental Health, Norwegian Institute of Public Health, Oslo, Norway

99 180.099 Sex-Specific Differences in Infant Visual Attention and Early Word Production: Potential for Female Protective Factors R. Burger-Caplan[1,2], A. Klin[3], J. N. Constantino[4] and W. Jones[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Department of Psychology, Emory University, Atlanta, GA, (3)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (4)Washington University School of Medicine, Saint Louis, MO

100 180.100 Sleep and Developmental Progress in Infants at High-Risk for Autism A. J. Schwichtenberg[1], E. Abel[2], J. Amstutz[1], S. L. Christ[1], M. Miller[3], S. Ozonoff[3] and T. F. Anders[4], (1)Purdue University, West Lafayette, IN, (2)Purdue University, Lafayette, IN, IN, (3)UC Davis MIND Institute, Sacramento, CA, (4)UC Davis M.I.N.D. Institute, South Dartmouth, MA

101 180.101 Social Emotion Regulation Strategies in Toddlers with ASD A. Milgramm, S. Macari, L. DiNicola, P. Heymann, E. Hilton, K. K. Powell, S. F. Fontenelle and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

102 180.102 Social Orienting, Joint Attention, and Empathy: Impacts of Early Impairments on Subsequent Social Development A. C. Dowd, B. G. Davidson and A. R. Neal-Beevers, Psychology, University of Texas at Austin, Austin, TX

103 180.103 Social Scene Manipulation through Gaze-Contingent Interfaces: Towards Automated Gaze Strategy Instruction for Young Children with ASD Q. Wang, E. S. Kim, C. A. Wall, E. C. Barney, Y. A. Ahn, C. Foster, M. Mademtzi, M. G. Perlmutter, S. Macari, K. Chawarska and F. Shic, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

104 180.104 Socio-Communicative Difficulties in Severely Visually Impaired (VI) Children WHO ARE at Risk of Autism As Measured By the Social Communication Schedule (SCS) and Parental Report N. J. Dale[1], E. Sakkalou[2], M. O'Reilly[2], R. MacKechnie[3], C. Springall[3] and A. Salt[2], (1) UCL Institute of Child Health/ Great Ormond Street Hospital for Children, London, United Kingdom, (2)Clinical Neurosciences, UCL Institute of Child Health, London, United Kingdom, (3)Great Ormond Street Hospital for Children, London, United Kingdom

105 180.105 Temperament Differences Across the First Three Years in High-Risk Younger Siblings of Children with ASD Compared to Low-Risk Controls C. R. Hess[1] and R. Landa[2], (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)The Kennedy Krieger Institute, Baltimore, MD

106 180.106 Temperament and Adaptive Functioning in a High-Risk Infant Sib Cohort N. Garon[1], L. Zwaigenbaum[2], S. E. Bryson[3], I. M. Smith[4], J. A. Brian[5], C. Roncadin[6], T. Vaillancourt[7], V. L. Armstrong[8], L. A. Sacrey[9] and W. Roberts[10], (1)Mount Allison University, Sackville, NB, Canada, (2) University of Alberta, Edmonton, AB, Canada, (3)Dalhousie University, Halifax, NS, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)Bloorview Research Institute, Toronto, ON, Canada, (6) Kinark Child & Family Services, Markham, ON, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)IWK Health Centre / Dalhousie University, Halifax, NS, Canada, (9)Department of Pediatrics, University of Alberta, Edmonton, Alberta, Canada, Edmonton, AB, Canada, (10) University of Toronto, toronto, ON, Canada

107 ▸180.107 The Clinical Utility of the Chinese Version Modified Checklist for Detecting Children with Autism Spectrum Disorders before Age 4 in Taiwan Y. S. Wong, C. C. Wu and C. C. Yang, Department of Psychology, Kaohsiung Medical University, Kaohsiung City, Taiwan

108 180.108 The Development of Joint Attention and Vocalizations in Infants at Heightened Risk for Autism Spectrum Disorder P. Heymann[1], J. B. Northrup[2], M. V. Parladé[3], N. B. Leezenbaum[2], K. L. West[2] and J. M. Iverson[2], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)University of Pittsburgh, Pittsburgh, PA, (3)University of Miami, Coral Gables, FL

109 180.109 The Effects of Others› Speech during Activity Monitoring on Attention Patterns in Toddlers with and without ASD Y. A. Ahn, Q. Wang, C. A. Wall and F. Shic, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

110 180.110 The Onset of Restricted, Repetitive and Stereotyped Patterns of Behavior in 18 Month Olds with Suspected Language Delay A. Thurm[1], S. S. Manwaring[2], L. B. Swineford[3], A. Stevens[2] and C. Farmer[4], (1)National Institutes of Health - National Institute of Mental Health, Bethesda, MD, (2)University of Utah, Salt Lake City, UT, (3)Pediatrics and Developmental Neuroscience Branch, National Institute of Mental Health, Bethesda, MD, (4)National Institutes of Health, Bethesda, MD

111 180.111 The Role of Joint Attention in Predicting Gains in Language and Social Interaction Skills in Very Young, Minimally Verbal Children with ASD D. Oosting and A. S. Carter, Department of Psychology, University of Massachusetts Boston, Boston, MA

112 180.112 The Role of Temperament and Broader Autism Phenotype in the Prediction of Toddlerhood Externalising and Internalising Symptoms M. Uljarevic[1], K. Crea[2], C. Dissanayake[3] and K. Hudry[4], (1) Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia, (2)Olga Tennison Autism Research Centre, Bundoora, VIC, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (4)Olga Tennison Autism Research Centre, Melbourne, Australia

113 180.113 The Stability of Atypical Developmental Outcomes in Young Children at Risk for Developing ASD K. K. Powell[1], S. Macari[1], E. Hilton[1], S. F. Fontenelle[1], J. Koller[2] and K. Chawarska[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2) School of Education, Hebrew University of Jerusalem, Jerusalem, Israel

114 ▸180.114 Using Child Behavior Checklist for Assessing and Detecting Peschool Children with Autism Spectrum Disorders Y. T. Chiu, W. H. Yu and C. C. Wu, Department of Psychology, Kaohsiung Medical University, Kaohsiung City, Taiwan

115 ▸180.115 Video-Referenced Ratings Assessing Social Behavior in Hispanic Toddlers B. Benedict[1], B. Harris-Olenak[2], T. Jacob[2] and J. N. Constantino[3], (1)VA Palo Alto Health Care System, Menlo Park, CA, (2) Family Research Center, VA Palo Alto Health Care System, Menlo Park, CA, (3)Washington University School of Medicine, Saint Louis, MO

116 180.116 Visual Search Cancellation at 36 Months in Autism: Search Strategies and Infant Predictors E. Doherty[1], T. Gliga[2], G. Scerif[1] and T. B. Team[3], (1)Experimental Psychology, University of Oxford, Oxford, United Kingdom, (2)Birkbeck College, London, United Kingdom of Great Britain and Northern Ireland, (3)Birkbeck, University of London, London, United Kingdom

WITHDRAWN

117 180.117 When Do the Developmental Trajectories of Siblings with ASD and BAP Diverge from Typically Developing Siblings? E. Hilton, K. K. Powell, S. Macari, A. Milgramm, P. Heymann, L. DiNicola, S. F. Fontenelle and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

118 180.118 "Did Somebody Call My Name?" Neural Responses to Hearing Their Own Name in Infants at Low and High Risk for Autism Spectrum Disorder at 14 Months of Age M. Arslan, N. L. Dewaele, E. Demurie, P. Warreyn and H. Roeyers, Ghent University, Ghent, Belgium

Poster Session

181 - Family Issues and Stakeholder Experiences
11:30 AM - 1:30 PM - Hall A

119 181.119 "You Never Stop Holding Your Breath": Narratives of Simplex and Multiplex Mothers with an Infant C. Ponting[1], E. Baker[2], S. S. Jeste[1], M. Dapretto[3] and T. Hutman[4], (1)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (2)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)University of California Los Angeles, Los Angeles, CA

120 181.120 A Family Centered Perspective on Addressing Feeding Concerns of Parents of Children with ASD A. Bonsall[1], M. Thullen[2] and K. Sohl[3], (1)Occupational Therapy, University of Missuori, Columbia, MO, (2) Health Sciences, University of Missouri, Columbia, MO, (3)University of Missouri - Thompson Center, Columbia, MO

121 181.121 A Preliminary Investigation of the Perspectives of Young Men with ASD and/ or ADHD and Their Caregivers about Conscript Military Service (CMS)/ National Service (NS) P. Y. Chay[1], C. Cheok[2] and I. Magiati[1], (1)Department of Psychology, National University of Singapore, Singapore, Singapore, (2)Department of Addiction Medicine, Institute of Mental Health, Singapore, Singapore

122 181.122 A White Lie? Subjective Experience of Deception in Adults with ASD A. Duquette[1], M. Devaine[2], É. Petit[3], J. Daunizeau[4] and B. Forgeot d'Arc[5], (1)Psychology, Université de Montréal, Montréal, QC, Canada, (2)Brain and Spine Institute, Paris, France, (3)Hôpital Rivière-des-Prairies, Montréal, AK, Canada, (4)Brain and Spine Institute, INSERM, Paris, France, (5)Psychiatry, Université de Montréal, Montreal, QC, Canada

123 ▸181.123 ABA Parent Training in Spanish for Children with ASD E. Rotheram-Fuller, K. S. Turner, H. Park, T. Pinon, L. Parra and P. Miller, Arizona State University, Tempe, AZ

124 181.124 ASD Community Interest in an Online National Autism Cohort, Incentives for Participation, Engagement Resources, and Research Topics of Interest J. Manoharan[1], V. J. Myers[2], A. M. Daniels[2], L. Green Snyder[2], P. Feliciano[2] and W. K. Chung[2], (1)Simons Foundation, New York, NY, (2)SFARI, Simons Foundation, New York, NY

125 181.125 Adaptive Social Communication in Children with ASD As a Predictor of Parent Stress S. W. Nowell[1], J. Amsbary[1], J. Page[2] and G. T. Baranek[1], (1)UNC Chapel Hill, Chapel Hill, NC, (2)Education and Psychology, UNC Chapel Hill, Chapel Hill, NC

126 181.126 Assessing Parents› Perspectives on Autism Biomarker Discovery A. Yusuf[1] and M. Elsabbagh[2], (1)McGill University, Montreal, QC, Canada, (2)McGill University, Montreal, PQ, Canada

127 181.127 Assessment and Intervention for Anxiety and Problem Behavior in Children with Autism Spectrum Disorder and Intellectual Disability L. J. Moskowitz[1] and C. E. Walsh[2], (1)Psychology, St. John's University, Queens, NY, (2)University of Colorado Denver, Denver, CO

128 181.128 Associations Between Co-Parenting Quality and Challenging Child Eating Behaviors in Families of Children with ASD M. Thullen[1], A. Bonsall[2], K. Sohl[3] and T. N. Takahashi[4], (1)Health Sciences, University of Missouri, Columbia, MO, (2)Occupational Therapy, University of Missuori, Columbia, MO, (3)University of Missouri - Thompson Center, Columbia, MO, (4)University of Missouri Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO

129 181.129 Autism Community Interest in and Use of Mobile Applications and Web-Based Tools for Tracking ASD-Related Information V. J. Myers, J. Manoharan, A. M. Daniels, L. Green Snyder, P. Feliciano and W. K. Chung, SFARI, Simons Foundation, New York, NY

130 181.130 Benefits of Physical Play for Fathers of Children with Autism J. L. Bloom[1], M. N. Gragg[1] and S. Horton[2], (1)Psychology, University of Windsor, Windsor, ON, Canada, (2)University of Windsor, Windsor, ON, Canada

131 ▸ 181.131 Bilingualism and Autism: Exploring Parents› Attitudes and Experiences S. Hampton, H. Rabagliati, A. Sorace and S. Fletcher-Watson, University of Edinburgh, Edinburgh, United Kingdom

132 181.132 Building Sibling Relationships: The Effects of Sibling Support on Siblings and Children with Autism E. A. Jones[1], D. M. Fienup[1], N. Neil[2], T. Fiani[1], S. McHugh[3] and S. Izquierdo[1], (1)Department of Psychology, Queens College and The Graduate Center, CUNY, Queens, NY, (2)Michigan State University and the DOCTRID International Research Institute, east lansing, MI, (3)Department of Psychology, Queens College, CUNY, Queens, NY

133 181.133 Caregiver's Experience of Universal ASD Screening – Would They Do It Again? M. E. Villalobos[1], T. P. Gabrielsen[2], J. Miller[3], N. Buerger[4] and J. Viskochil[5], (1)Psychiatry, TEACCH Autism Program University of North Carolina Chapel Hill, NC, Asheville, NC, (2)Brigham Young University, Provo, UT, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)University of Utah, Salt Lake City, UT, (5)Utah Autism Research Program, Salt Lake City, UT

134 181.134 Caregiver's Perspectives on the Sensory Environment and Participation in Daily Activities for Children with Autism Spectrum Disorders B. A. Pfeiffer, Rehabilitation Sciences, Temple University, Philadelphia, PA

135 ▸ 181.135 Caregivers' Perspectives on Facilitators and Barriers to Early Identification of Children with ASD E. Crais[1], C. S. McComish[2], E. F. Kertcher[3], S. R. Hooper[4], R. Edmondson Pretzel[5], S. Mergner[5] and M. E. Villalobos[6], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Division of Speech & Hearing Sciences, University of North Carolina, Chapel Hill, NC, (3)Division of Occupational Science/ Occupational Therapy, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)Psychiatry TEACCH, University of North Carolina at Chapel Hill, Chapel Hill, NC

136 181.136 Caring for Adults with Autism: Impact on Families R. K. Sandercock[1], M. R. Klinger[1], E. M. Lamarche[2] and L. G. Klinger[3], (1) University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC

137 ▸ 181.137 Characterizing the Relationship Between Autism Severity and Aberrant Behavior on Caregiver Strain and Family Empowerment in a Minority Population P. Trelles[1], P. M. Siper[2], J. M. Jamison[3], E. Fourie[4], D. Halpern[1], A. T. Wang[5], J. Krata[6], E. Holl[6], J. Shaoul[6], B. Hernandez[6], L. Mitchell[6], J. D. Buxbaum[5] and A. Kolevzon[3], (1) Icahn School of Medicine at Mount Sinai, New York, NY, (2)Seaver Autism Center, New York, NY, (3)Psychiatry, Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai, New York, NY, (4)Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai, New York, NY, (5)Psychiatry, Seaver Autism Center at Mount Sinai, New York, NY, (6)YAI, New York, NY

138 181.138 Communication about Sexuality Between Young Adults with Autism Spectrum Disorder (ASD) and Their Parents K. Hartmann[1], M. Urbano[2], T. V. Williams[3], A. L. Peterkin[4] and T. Kozikowski[2], (1)P.O. Box 1980, Eastern Virginia Medical School, Norfolk, VA, (2)Eastern Virginia Medical School, Norfolk, VA, (3)Virginia Consortium Program in Clinical Psychology, Norfolk, VA, (4)Psychology, Old Dominion University, Norfolk, VA

139 181.139 Comparison of Reported Social Support in Single and Two Caregiver Families with a Child with an Autism Spectrum Disorder E. G. Schreiber, Center for Autism Spectrum Disorders, Nationwide Children's Hospital, Westerville, OH

140 181.140 Compassion Meditation for Parents: Effects on Stress and Perceived ASD Severity J. Mendelson[1], S. Fernandez-Carriba[1], C. A. Saulnier[1], S. E. Gillespie[2] and A. Klin[3], (1)Department of Pediatrics, Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, and Emory University School of Medicine, Atlanta, GA, (3)Department of Pediatrics, Emory University School of Medicine, Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA

141 ▸ 181.141 Coping Skills Among Mothers of Children with Autism in Ireland and Iran: The Effect of Culture S. Torabian[1] and S. A. Samadi[2], (1)San Jose State University, Los Altos Hills, CA, (2)University of Ulster, Karaj, Iran (Islamic Republic of)

142 ▸ 181.142 Day-to-Day Technology Use and Training Needs of Teens with ASD and Typically-Developing Peers C. A. Cohen[1,2] and A. R. Marvin[3], (1)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (2)University of Baltimore, Baltimore, MD, (3)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD

143 181.143 Defining Parenting and the Role That It Plays in the Relationship Between Complexity of the Child›s Neurodevelopmental Disorder and Family Impact S. Quirke[1], A. Bertone[2,3], L. M. Lach[4,5] and P. Rosenbaum[6], (1)McGill University, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Children's Development, Montreal, QC, Canada, (3)Education and Counselling Psychology, McGill University, Montreal, QC, Canada, (4)Social Work, McGill University, Montreal, QC, Canada, (5)McGill University, Centre for Research on Children and Families, Montreal, QC, Canada, (6)CanChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada

WITHDRAWN

144 181.144 Defining the Characteristics and Needs of Females with ASD: An Inductive Approach S. N. Bargiela[1], R. L. Steward[2] and W. Mandy[3], (1)UCL, London, United Kingdom, (2)Robyn Steward, Suffolk, England, United Kingdom of Great Britain and Northern Ireland, (3) University College London, London, United Kingdom

145 181.145 Development and Validation of a Survey of Knowledge of Autism Spectrum Disorder L. K. Hansen[1] and T. D. Barry[2], (1)University of Southern Mississippi, Hattiesburg, MS, (2)Psychology, Washington State University, Pullman, WA

146 181.146 Discrepancy in Social Support Perceptions As a Risk Factor for Siblings of Individuals with ASD J. A. Rankin, T. S. Tomeny, L. K. Baker and S. W. Eldred, Psychology, The University of Alabama, Tuscaloosa, AL

147 181.147 Effectiveness of a Family Psychoeducation Program for Parents of Young Children with ASD T. Takezawa[1], T. Yoshikawa[2] and M. Inoue[3], (1)Education and Social Service, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Aichi, Japan, (2)Child and Adolescent Psychiatry, Central Hospital,Aichi Human Service Center, Kasugai, Aichi, Japan, (3)Tottori University, Yonago, Tottori, Japan

148 181.148 Emotional Difficulties in Parents of Children with Autism Spectrum Disorder A. P. Costa, G. Steffgen and D. Ferring, University of Luxembourg, Esch sur Alzette, Luxembourg

149 181.149 Emotional and Physiological Responses to Infant Crying in Parents of Children with ASD Y. Ozturk[1], A. Bizzego[2,3,4], N. Mazzoni[5], T. Del Bianco[5], C. Furlanello[3] and P. Venuti[5], (1)Department of Psychology and Cognitive Science, University of Trento, Rovereto, Italy, (2)Department of Information Engineering and Computer Science, University of Trento, Trento, Italy, (3)FBK - Fondazione Bruno Kessler, Trento, Italy, (4)SKIL Lab, Telecom Italia, Trento, Italy, (5)Department of Psychology and Cognitive Science, University of Trento, Rovereto, TN, Italy

150 181.150 Engaging Underserved Communities in Identifying Barriers to Early ASD Diagnosis and Treatment J. Elder[1] and S. N. Brasher[2], (1)College of Nursing University of Florida, Gainesville, FL, (2) Nursing, University of Florida, Gainesville, FL

151 181.151 Engaging the Next Generation in ASD Research – Experiences of the Ssc@IAN Family Registry J. S. Toroney[1], J. K. Law[2], A. R. Marvin[3], C. White[4], E. Brooks[4], E. M. Arthur[5], W. K. Chung[6] and P. H. Lipkin[5], (1)Medical Informatics, Interactive Autism Network, Baltimore, MD, (2)Interactive Autism Network, Baltimore, MD, (3)Department of Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (4)Simons Foundation, New York, NY, (5)Kennedy Krieger Institute, Baltimore, MD, (6)SFARI, Simons Foundation, New York, NY

152 181.152 Engaging with Adults on the Autism Spectrum and Their Relatives about Effective Longitudinal Cohort Research J. E. Mackintosh[1], T. L. Finch[1], H. McConachie[1], A. Le Couteur[2], D. Garland[3], A. M. Petrou[4], D. Brett[5], C. Michael[6], T. Goth[7], C. Mitchell[8] and J. R. Parr[9], (1)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, Northern Ireland, United Kingdom of Great Britain and Northern Ireland, (3)Northumberland, Tyne & Wear NHS Foundation Trust, Newcastle upon Tyne, England, United Kingdom of Great Britain and Northern Ireland, (4)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (5)Newcastle University, IHS, Newcastle Upon Tyne, England, United Kingdom of Great Britain and Northern Ireland, (6)c/o Institute of Neuroscience, Autism Age, Newcastle upon Tyne, United Kingdom, (7)c/o Institute of Neuroscience, National Autistic Society, UK, Newcastle upon Tyne, United Kingdom, (8)c/o Institute of Neuroscience, Autismworks, Newcastle upon Tyne, United Kingdom, (9)Institute of Health and Society, Newcastle University, Newcastle Upon Tyne, United Kingdom

153 181.153 Evaluating Patterns of Service Access and Interest in Families of Individuals with ASD L. A. Pepa[1] and S. L. Harris[2], (1)Rutgers University, Douglass Developmental Disabilities Center, New Brunswick, NJ, (2)Rutgers University, Douglass Developmental Disabilities Center, Piscataway, NJ

154 181.154 Examining the Impact of Medication Side Effects on Problem Behavior Displayed By Children with Autism Spectrum Disorder (ASD) J. D. Bleiweiss, Special Education, Hunter College, New York, NY

155 181.155 Examining the Relationship Between Gender, Age, Anxiety and Aggression in Children with ASD Using the Child Behavior Checklist A. K. Walsh, K. Derochea, D. Peterson and E. Hanson, Developmental Medicine Center, Boston Children's Hospital, Boston, MA

156 181.156 Experiences Related to Deployment for Military Families with Children with ASD J. Davis[1] and E. H. Finke[2], (1)Pennsylvania State University, State College, PA, (2)Pennsylvania State University, University Park, PA

157 181.157 Factors Associated with Parent Satisfaction with Emergency Department Visits When the Patient Has Autism S. Kirsch[1], J. Weaver[2] and D. Meryash[3], (1)Pediatrics, Cohen Children's Medical Center, Lake Success, NY, (2)University of Toronto, Toronto, ON, Canada, (3) Pediatrics, Cohen Children's Medical Center / Hofstra NS-LIJ School of Medicine, Lake Success, NY

158 181.158 Families of Youth with ASD and Other Developmental Disabilities: A Theory-Based Intervention J. J. Diehl[1,2], K. N. Bergman[2], J. Kaboski[2], C. Lee[2], J. Likens[1], H. Miller[2] and E. M. Cummings[2], (1)LOGAN Community Resources, Inc., South Bend, IN, (2)University of Notre Dame, Notre Dame, IN

159 181.159 Family Empowerment Among Parents of Children Newly Diagnosed with ASD L. Corona[1], S. A. Fox[1], M. L. Rinaldi[1] and K. V. Christodulu[2], (1)Center for Autism and Related Disabilities, Albany, NY, (2)Center for Autsim and Related Disabilities, Albany, NY

160 181.160 Feasibility and Initial Efficacy of Primary Care Stepping Stones Positive Parenting Program (Triple P) on Reducing Maladaptive Behaviors in Children Newly Diagnosed with Autism Spectrum Disorder D. Zand[1], M. W. Bultas[2], S. E. McMillin[3], K. Pierce[4] and D. McNamara[4], (1)General Academic Pediatrics, Saint Louis University, St Louis, MO, (2)School of Nursing, Saint Louis University, Saint Louis, MO, (3)Social Work, Saint Louis University, Saint Louis, MO, (4)General Academic Pediatrics, Saint Louis University, Saint Louis, MO

161 181.161 Five Factor Structure of Parenting Stress Index – Short Form in Evaluating Stress in Parents of Children with ASD R. Mahajan[1], V. Singh[2], A. Schrembs[1], J. Neely[1], M. Pinkett-Davis[1] and R. Landa[1], (1)The Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD

163 181.163 How Do Parents Conceptualize Their Children›s Autism Spectrum Disorder? Validating a Measure of Caregiver Perceptions S. S. Mire, T. Tolar, J. R. Anderson, N. S. Raff and C. M. Brewton, Psychological, Health, & Learning Sciences, University of Houston, Houston, TX

164 181.164 Improving Access to Care in Families of Children with Autism Spectrum Disorder: A Mixed Methods Study to Establish the Pediatric Developmental Passport As a Resource Tool for Parents E. Young[1,2], C. R. L. Brown[1,3], M. C. Tassone[1,4,5], E. Lung[1], N. Bechard[1,3], J. Huber[1,6,7,8] and T. Jegathesan[1], (1)Pediatrics, Saint Michael's Hospital, Toronto, ON, Canada, (2)Department of Pediatrics, Division of Developemental Pediatrics, University of Toronto, Toronto, ON, Canada, (3)Faculty of Medicine, University of Toronto, Toronto, ON, Canada, (4) Department of Pediatrics, Faculty of Medicine, University of Toronto, Toronto, ON, Canada, (5)Michael G. DeGroote School of Medicine,, McMaster University, Hamilton, ON, Canada, (6)Department of Pediatrics, Division of Pediatrics, University of Toronto, Toronto, ON, Canada, (7) School of Graduate Studies, Department of Rehabilitative Sciences (Department of Speech-Language Pathology), University of Toronto, Toronto, ON, Canada, (8)Division of Neurology, The Hospital for Sick Children, Toronto, ON, Canada

165 181.165 Improving Family Functioning Following Diagnosis of ASD: A Randomized Trial of a Parent Mentorship Program E. Moody[1], K. E. Kaiser[2], L. Kubicek[3], D. L. Sharp[3] and C. Robinson[4], (1)13121 E 17th Avenue, University of Colorado Anschutz Medical Campus, Aurora, CO, (2)JFK Partners University of Colorado, Aurora, CO, (3)University of Colorado School of Medicine, Aurora, CO, (4)University of Colorado, Aurora, CO

166 181.166 Informant Discrepancies in Parent and Sibling Self-Reported Emotional and Behavioral Adjustment Problems in Siblings of Individuals with ASD J. A. Rankin, L. K. Baker, S. W. Eldred and T. S. Tomeny, Psychology, The University of Alabama, Tuscaloosa, AL

167 181.167 Investigating Relationships Among Parental Cognitions and Emotions, Child Characteristics, and Family Demographics Among Parents of Children with Autism Spectrum Disorder E. R. Hotez[1], M. R. Swanson[2], A. Delavenne[3], T. Weiner[3] and M. Siller[4], (1)The Graduate Center of the City University of New York, New York, NY, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Hunter College, New York, NY, (4)Hunter College of the City University of New York, New York, NY

168 181.168 Links Between Autism Spectrum Disorder Diagnostic Status and Family Quality of Life A. G. McKechanie[1,2], S. Fletcher-Watson[3], V. Moffat[4] and E. C. Johnstone[5], (1)The Salvesen Mindroom Centre, The University of Edinburgh, Edinburgh, United Kingdom, (2) The Patrick Wild Centre, The University of Edinburgh, Edinburgh, United Kingdom, (3)University of Edinburgh, Edinburgh, Scotland, United Kingdom, (4)University of Edinburgh, Edinburgh, United Kingdom, (5) University of Edinburgh, Edinburgh, United Kingdom of Great Britain and Northern Ireland

169 181.169 Living with Autism without Knowing: Receiving a Diagnosis after 50 S. D. Stagg and H. L. Belcher, Anglia Ruskin University, Cambridge, United Kingdom

170 181.170 Making Your Own Way: A Qualitative Study of How Ontario Parents of Children with Autism Navigate Intervention S. J. Gentles[1], D. B. Nicholas[2], K. A. McKibbon[3], S. M. Jack[4] and P. Szatmari[5], (1)CanChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada, (2)University of Calgary, Edmonton, AB, Canada, (3)Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, ON, Canada, (4)School of Nursing, McMaster University, Hamilton, ON, Canada, (5)Centre for Addiction and Mental Health, Toronto, ON, Canada

171 181.171 Maternal Health of Transition Age Individuals with ASD J. K. Law[1], A. R. Marvin[2], J. S. Toroney[3], E. M. Arthur[4] and P. H. Lipkin[4], (1)Interactive Autism Network, Baltimore, MD, (2)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD, (3)Medical Informatics, Interactive Autism Network, Baltimore, MD, (4)Kennedy Krieger Institute, Baltimore, MD

172 181.172 Mindful Parenting: A New Approach to Supporting Parents of Children with Autism Spectrum Disorder A. C. Voos[1], T. Vernon[1], A. Navab[2] and E. McGarry[3], (1)University of California, Santa Barbara, Santa Barbara, CA, (2)University of California Santa Barbara, Los Angeles, CA, (3)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA

173 181.173 Minimal Risk of Internalizing Problems in Typically-Developing Siblings of Children with HFASD J. D. Rodgers[1], A. Warhol[1], J. D. Fox[2], C. A. McDonald[1], M. L. Thomeer[1], C. Lopata[1], A. M. Darrow[1], A. L. Szyszkowski[1], A. A. Biscotto[1] and T. Sheffield[1], (1)Institute for Autism Research, Canisius College, Buffalo, NY, (2)Abilities First, Poughkeepsie, NY

174 181.174 Parent Expectancies: A Self-Fulfilling Prophecy? C. Kang[1], A. C. Holbrook[1], S. Y. Shire[1], T. Smith[2], R. Landa[3], A. Kaiser[4], A. Gulsrud[5] and C. Kasari[1], (1)University of California Los Angeles, Los Angeles, CA, (2)Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (3) The Kennedy Krieger Institute, Baltimore, MD, (4)Vanderbilt University, Nashville, TN, (5)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

175 181.175 Parent Perceptions of an Adapted Evidence Based Practice for Toddlers with Autism in a Community Setting S. R. Rieth[1], A. C. Stahmer[2], L. Brookman-Frazee[3] and T. Wang[4], (1)San Diego State University, San Diego, CA, (2)University of California at Davis MIND Institute, Sacramento, CA, (3)Autism Discovery Institute at Rady Children's Hospital – San Diego, San Diego, CA, (4)University of California, San Diego, La Jolla, CA

176 181.176 Parent and Teacher Reported Child Characteristics Related to Parenting Stress in ASD T. Ward[1], T. Estrada[1], E. A. Lovell[1], R. Kramer[1] and B. Wilson[2], (1)Seattle Pacific University, Seattle, WA, (2) Clinical Psychology, Seattle Pacific University, Seattle, WA

177 181.177 Parent-Child Interaction in Children with Autism Spectrum Disorder Who Vary in Symptom Severity and Level of Functioning L. J. Donnelly[1], M. R. Brassard[2], A. Kolevzon[1], J. M. Jamison[1] and E. Fourie[1], (1)Psychiatry, Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai, New York, NY, (2)School Psychology, Health and Behavior Studies, Teachers College, Columbia University, New York, NY

178 181.178 Parent-Teacher Communication about Children with Autism Spectrum Disorder: An Examination of Collaborative Problem-Solving G. Azad[1], M. Kim[1], D. S. Mandell[1] and S. Sheridan[2], (1)University of Pennsylvania School of Medicine, Philadelphia, PA, (2)University of Nebraska-Lincoln, Lincoln, NE

179 ▸181.179 Parental Stress in Families with 16p11.2 Duplications and Deletions with and without ASD **T. Ward**[1], M. Frye[2], C. M. Hudac[3], J. Gerdts[3], F. K. Miller[4], R. Kincade[5], R. Bernier[3], E. Hanson[6], R. P. Goin-Kochel[7], J. E. Spiro[8] and W. K. Chung[9], (1)University of Washington Autism Center, Seattle, WA, (2)University of Washington, Psychiatry and Behavioral Sciences, Seattle, WA, (3)University of Washington, Seattle, WA, (4)Mary A. Rackham Institute (MARI), University of Michigan, Ann Arbor, MI, (5)University of Washington Psychiatry and Behavioral Sciences, Seattle, WA, (6)Children's Hospital Boston, Boston, MA, (7) Baylor College of Medicine, Houston, TX, (8)Simons Foundation, New York, NY, (9)SFARI, Simons Foundation, New York, NY

180 181.180 Parenting Children with ASD and Children with Anxiety Disorders: The Relationship Between Parental Stress, Anxiety, and Parenting Style and Child Symptom Presentation **C. A. Paisley**, S. M. Abdullahi, M. L. Braconnier, W. Silverman and P. E. Ventola, Yale Child Study Center, Yale School of Medicine, New Haven, CT

181 181.181 Parenting Work and Trajectories of Care – How Parents Develop a Sense of Personhood and Future Possibilities for Children with Autism **J. S. Singh**, School of History and Sociology, Georgia Institute of Technology, Atlanta, GA

182 181.182 Past, Present, and Future Self-Concepts in Undergraduates with ASD and Other Disabilities in Relation to Chronic Bullying and Use of Labels in Disclosure **D. DeNigris**[1], P. J. Brooks[2], R. Obeid[3], C. Shane-Simpson[4], S. Shnaidman[5], E. Wawrzonek[6], W. Long[6], B. Cheriyan[6], J. D'Onofrio[7] and K. Gillespie-Lynch[8], (1)The Graduate Center & College of Staten Island, CUNY, New York, NY, (2)College of Staten Island, Staten Island, NY, (3)CUNY Graduate Center, New York, NY, (4) The Graduate Center & College of Staten Island, New York, NY, (5)Staten Island Technical High School, Staten Island, NY, (6)The College of Staten Island, CUNY, Staten Island, NY, (7)Center for Student Accessibility, City University of New York, College of Staten Island, Staten Island, NY, (8) CUNY Graduate Center, Brooklyn, NY

183 181.183 Positive and Negative Experiences of Mothers with Autism **A. L. Pohl**, S. K. Crockford, C. Allison and S. Baron-Cohen, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom

184 181.184 Post-Diagnosis Family Experiences in a Pre-Elementary Age Population **P. F. Turcotte**[1], L. J. Shea[2], G. Vivanti[3] and D. L. Robins[4], (1)A.J. Drexel Autism Institute, Cherry Hill, NJ, (2)A.J. Drexel Autism Institute, Philadelphia, PA, (3)Olga Tennison Autism Research Centre, Melbourne, Australia, (4)Drexel University, Philadelphia, PA

185 181.185 Prediagnostic and Diagnostic Stages of Autism Spectrum Disorders: A Parent Perspective **W. H. Wong**[1], Y. Yu[2], J. H. McGrew[2] and L. A. Ruble[1], (1)University of Kentucky, Lexington, KY, (2) Indiana University - Purdue University Indianapolis, Indianapolis, IN

186 181.186 Predictors of Somatic Problems in Parents of Adolescents and Young Adults with Autism **M. Uljarevic**[1], R. Y. Cai[2] and A. L. Richdale[2], (1)Bundora Campus, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, Melbourne, Australia

187 ▸181.187 Problematic Mealtime Behaviors Identified in Chinese American Children with ASD **H. L. Gray** and H. M. Chiang, Teachers College Columbia University, New York, NY

188 181.188 Quality of Life in Families with a Transition Aged Young Adult on the Autism Spectrum from the Perspective of Adult Sisters L. A. Crabtree[1] and **B. B. Demchick**[2], (1)Towson University, Lutherville, MD, (2) Towson University, Towson, MD

189 181.189 Reliability of Parent and Teacher Perspectives on Child Functioning in a Large Urban Sample of Children with ASD **K. S. Dickson**[1], A. C. Stahmer[2], S. R. Rieth[3] and J. Suhrheinrich[4], (1)Psychiatry, UCSD, San Diego, CA, (2)University of California at Davis MIND Institute, Sacramento, CA, (3)San Diego State University, San Diego, CA, (4) University of California San Diego, La Jolla, CA

190 181.190 Technology Use By Adolescents with Autism: It›s Not Just for Playing Video Games and Watching Animated Movies **S. Hedges**, UNC Chapel Hill, Chapel Hill, NC

191 181.191 The Impact of March Break and Summer Program Funding on the Stress of Caregivers of Children with Autism **J. M. Bebko**[1], C. A. McMorris[1], B. L. Ncube[1], O. M. Jon[2], J. H. Schroeder[1], G. Kontosic[3], L. Verbeek[3] and M. Spoelstra[3], (1)York University, Toronto, ON, Canada, (2)McMaster University, Hamilton, ON, Canada, (3)Autism Ontario, Toronto, ON, Canada

192 ▸181.192 The Influence of Ethnic Culture on Profiles of Stress and Coping in Caregivers of Children with Autism Spectrum Disorder **T. V. Williams**[1], K. Hartmann[2] and M. Urbano[2], (1)Virginia Consortium Program in Clinical Psychology, Norfolk, VA, (2)Eastern Virginia Medical School, Norfolk, VA

193 181.193 The Longitudinal Impact of Marital Adjustment and Social Support on Stress in Primary Caregivers of Children with ASD **Y. Yu** and J. H. McGrew, Indiana University - Purdue University Indianapolis, Indianapolis, IN

194 181.194 The Relationship Between Pain and Problem Behavior in Predicting Parent Stress in Families of Children with Autism **C. E. Walsh**[1] and M. Tudor[2], (1)University of Colorado Denver, Denver, CO, (2) Stony Brook University, East Setauket, NY

195 181.195 The Relationship Between the Behavioral Symptomology of Children with Autism Spectrum Disorder and Their Siblings› Psychological Functioning **E. A. Roth**[1], G. M. Kuravackel[2] and D. Wohlfarth[1], (1)School of Professional Psychology, Spalding University, Louisville, KY, (2)Pediatrics, University of Louisville School of Medicine, Louisville, KY

196 181.196 The Role of Grandparents in the Identification of a Grandchild›s Autism Spectrum Disorder and the Information Sources They Utilize **J. Hillman**[1], A. R. Marvin[2], J. K. Law[3] and C. Anderson[4], (1)Applied Psychology, Penn State Berks College, Reading, PA, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Interactive Autism Network, Baltimore, MD, (4)Department of Interprofessional Health Studies, Towson University, Towson, MD

197 181.197 Understanding Health Care Disparities Among Families of Children with ASD: The Role of Advocacy, Empowerment, and Parent-Professional Relationships **K. A. Casagrande** and B. Ingersoll, Michigan State University, East Lansing, MI

198 181.198 Understanding Oral Care Challenges in Children with Autism Spectrum Disorder: A Mixed Methods Study **L. I. Stein**[1], B. F. Henwood[2], R. N. Bluthenthal[3], J. C. Polido[4] and S. A. Cermak[1], (1) Occupational Science & Occupational Therapy, University of Southern California, Los Angeles, CA, (2)Social Work, University of Southern California, Los Angeles, CA, (3)Preventive Medicine, University of Southern California, Los Angeles, CA, (4)Dentistry, Children's Hospital Los Angeles, Los Angeles, CA

Poster Session
182 - International and Cross-Cultural Perspectives
11:30 AM - 1:30 PM - Hall A

199 ▸182.199 Feeding Problems in Children with Autism Spectrum Disorders: Evidence from a Developing Country P. Malhi[1], L. Venkatesh[2], B. Bharti[2] and P. Singhi[2], (1)Post Graduate Institute of Medical Education and Research, Chandigarth, UT, India, (2)Pediatrics, Post Graduate of Institute of Medical Education and Research, Chandigarh, India

200 ▸182.200 Implementation of the Latin American Autism Spectrum Network Caregiver Needs Survey A. Rattazzi[1], C. S. Paula[2,3], R. A. Garcia[4], G. Garrido[5], C. Montiel-Nava[6], D. Valdez[7,8], A. Rosoli[9], S. H. Cukier[1], G. Rodrigues da Cunha[3,10], M. Irarrazaval[4,11], M. Rodriguez[12] and V. Besio[13], (1)PANAACEA, Buenos Aires, Argentina, (2)Department of Psychiatry, Federal University of Sao Paulo, Sao Paulo, Brazil, (3) Mackenzie Presbyterian University, Sao Paulo, Brazil, (4)Universidad de Chile, Santiago, Chile, (5)School of Medicine- Child Psychiatry Clinic, Universidad de la República, Montevideo, Uruguay, (6)La Universidad del Zulia, Maracaibo, Venezuela, (7)FLACSO, Buenos Aires, Argentina, (8)UBA, Buenos Aires, Argentina, (9)OEI, Santo Domingo, Dominican Republic, (10)Federal University of Sao Paulo, Sao Paulo, Brazil, (11)Millennium Institute for Research in Depression and Personality, Santiago, Chile, (12)Hospital Británico, Montevideo, Uruguay, (13) Universidad de la República, Montevideo, Uruguay

201 ▸182.201 Validation of the Arabic Version of the Social Communication Questionnaire (SCQ) M. Aldosari[1], F. Alshaban[2], M. Ouda[3], S. F. Elhag[2], H. F. Alshammari[2], A. Alsaleh[4] and E. Fombonne[5], (1) Center for Pediatric Neurology, Cleveland Clinic Foundation, Cleveland, OH, (2)Neurological Disorders Research Center, Qatar Biomedical Research Institute, Doha, Qatar, (3)National Guard Health Affairs, Riyadh, Saudi Arabia, (4)King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (5)Oregon Health & Science University, Portland, OR

202 ▸182.202 An International Review of Autism Knowledge Assessment Measures A. J. Harrison[1], M. M. Slane[1], L. Hoang[2] and J. M. Campbell[3], (1)University of Georgia, Athens, GA, (2)Skidmore College, Saratoga Springs, NY, (3)University of Kentucky, Lexington, KY

203 ▸182.203 Procedures and Compliance of a Video Modeling Intervention for Parents of Children with ASD C. S. Paula[1,2], J. J. Mari[3], D. Bordini[4], D. Brunoni[5], S. C. Caetano[6], H. Brentani[7], T. Ribeiro[7], M. C. C. Martone[8], G. Rodrigues da Cunha[9] and L. Bagaiolo[6], (1)Mackenzie Presbyterian University, Sao Paulo, Brazil, (2)Department of Psychiatry, Federal University of Sao Paulo, Sao Paulo, Brazil, (3)Psychiatry, Federal University of São Paulo, São Paulo, Brazil, (4)Departament of Psychiatry, Federal University of São Paulo (UNIFESP), Sao Paulo, Brazil, (5) Development Disorders Program, Mackenzie University, São Paulo, Brazil, (6)Department of Psychiatry, Federal University of São Paulo (UNIFESP), São Paulo, Brazil, (7)Department of Psychiatry, University of São Paulo (USP), São Paulo, Brazil, (8)Universidade Federal de Sao Carlos, São Carlos, Brazil, (9)Federal University of Sao Paulo, Sao Paulo, Brazil

204 ▸182.204 Behavioral Treatment and Educational Intervention Received By Children with Autism in Ethiopia W. Zeleke and M. Chitiyo, Duquesne University, Pittsburgh, PA

205 ▸182.205 Ignoring the Odds: The RISE in Autistic Spectrum Disorder in Libyan Children and EARLY TV Viewing «Libyan Vision» A. M. Zeglam[1] and M. F. Al-Ogab[2], (1)Al-Khadra Teaching Hospital, Tripoli, Libya, (2)Community Health, Faculty of Medicine, Tripoli, Libya

206 ▸182.206 Pattern of Behavioural Deficits Among Nigerian Children with Autism A. T. Olagunju[1], Y. O. Oshodi[2], M. A. Oyelohunnu[3], E. A. Campbell[3], B. Fadipe[3], C. S. Umeh[4], O. F. Aina[4], W. A. Oyibo[5], A. E. Lamikanra[6], A. Lesi[7] and J. D. Adeyemi[4], (1)Department of Psychiatry, College of Medicine, University of Lagos, Lagos, Nigeria, (2)Department of psychiatry,, College of medicine, university of Lagos., Lagos, Nigeria, (3)Department of Psychiatry, Lagos University Teaching Hospital, Lagos, Nigeria, (4)Department of Psychiatry, College of Medicine, University of Lagos, Lagos, Nigeria, (5)Department of Medical Microbiology and Parasitology, College of Medicine, University of Lagos, Lagos, Nigeria, (6) Wuhan Polytechnic University, Frisco, TX, (7)Department of Pediatrics, College of Medicine, University of Lagos, Lagos, Nigeria

207 ▸182.207 Translation and Cultural Appropriateness of the ADOS-2 in Afrikaans L. Smith[1], S. Malcolm-Smith[1] and P. J. de Vries[2], (1) University of Cape Town, Cape Town, South Africa, (2)Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

WITHDRAWN

208 ▸182.208 Prevalence and Capacity Building in Brazil C. S. Paula[1], D. Bordini[2] and R. Lowenthal[3], (1)Developmental Disorder Program, Mackenzie Presbyterian University, Sao Paulo, Brazil, (2) Departament of Psychiatry, Federal University of São Paulo (UNIFESP), Sao Paulo, Brazil, (3)Ambulatorio de Autismo Marcos T Mercadante, CAISM, Santa Casa de São Paulo, Sao Paulo, Brazil

209 ▸182.209 Self-Descriptions By Individuals with Autism Spectrum Disorder in New Delhi and Los Angeles: The Power of Cultural Context R. S. Brezis[1], N. Singhal[2], T. S. Weisner[3], T. C. Daley[4], M. Barua[5], J. Piggot[6] and S. P. Chollera[7], (1)School of Psychology, Interdisciplinary Center, Herzliya, Israel, (2)Action For Autism, New Delhi, Delhi, India, (3) Psychiatry & Anthropology, UCLA, Los Angeles, CA, (4)Westat, Durham, NC, (5)Action For Autism, New Delhi, India, (6)University of Dundee, Department of Psychiatry, Dunning, Scotland, (7)UCLA, Los Angeles, CA

210 ▸182.210 The Profile and IMPACT of ASD and Other Neurodevelopmental Disorders: Comparison and Predictors from India B. Koshy, M. Manoharan, R. Roshan, L. Samuel and R. Beulah, Developmental Paediatrics, Christian Medical College, Vellore, Vellore, India

211 182.211 Communication and Interaction in Autism Research - Perspectives from Volunteers and Scientists J. J. Finnemann[1,2] and K. Plaisted Grant[1], (1)Department of Psychology, University of Cambridge, Cambridge, United Kingdom, (2)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

212 ▸182.212 Social Desirability, Collectivism/Individualism and Stigma Towards Individuals with Autism Spectrum Disorders (ASD) in Japanese and American College Students F. Someki[1], M. Torii[2] and K. Gillespie-Lynch[3], (1)College of Staten Island, Staten Island, NY, (2)Kobe University, Kobe, Japan, (3)City University of New York, College of Staten Island, Staten Island, NY

213 ▸182.213 Environmental Factors in Autism Spectrum Disorder: A Case Control Study from Tunisia N. Gaddour, T. Brahim, S. Missaoui, R. Ben Moussa and L. Gaha, University of Monastir, Monastir, Tunisia

214 182.214 Analysis of Support Devices for Inclusive Education of Students with ASD in the City of Buenos Aires, Argentina D. Valdez[1,2] and L. Sueiro[1], (1)FLACSO, Buenos Aires, Argentina, (2)UBA. Universidad de Buenos Aires., Buenos Aires, Argentina

215 182.215 The Education Program Changed Knowledge and Stigma Associated with Autism Spectrum Disorder in Japanese High School Students M. Torii[1] and F. Someki[2], (1)Kobe University, Kobe, Japan, (2)College of Staten Island, Staten Island, NY

216 ▸ 182.216 A Profile of Children with Autism in Ethiopia from the Perspective of Parents W. Zeleke and M. Chitiyo, Duquesne University, Pittsburgh, PA

217 ▸ 182.217 Age of First Diagnosis in Asian Children at a Regional Autism Clinic M. Lambha[1], J. Mendelson[2], J. Hamel[3], N. Bhuiyan[4], C. Hall[4] and D. R. Ussery[5], (1)Marcus Autism Center/Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University School of Medicine, Atlanta, GA and The University of North Carolina at Greensboro, Greensboro, NC, (3)Clinical Assessment and Diagnostics, Marcus Autism Center/Children's Healthcare of Atlanta, 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

218 ▸ 182.218 Barriers to Diagnosis and Treatment of Autism Spectrum Disorder in Latino and White Non-Latino Families K. Zuckerman[1], O. J. Lindly[2], N. M. Reyes[3], A. E. Chavez[1], K. Macias[4], A. Folan[3], K. Smith[5] and A. M. Reynolds[3], (1)Oregon Health & Science University, Portland, OR, (2)Oregon State University, Portland, OR, (3) University of Colorado - Denver, Aurora, CO, (4)UCEDD Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA, (5)Children's Hospital Los Angeles, Pasadena, CA

219 ▸ 182.219 Differences in Neuropsychological and Behavioral Profiles of White and Asian Children with Autism Spectrum Disorder (ASD) C. Luong-Tran[1], L. Kenworthy[2], C. Rothwell[3,4], A. B. Ratto[5], L. Mohamed[6], R. E. Shafran[7] and L. G. Anthony[8], (1)Neuropsychology, Center for Autism Spectrum Disorders, Children's National, Rockville, MD, (2)Children's Research Institute, Children's National Medical Center, Rockville, MD, (3) Catholic University of America, Washington, DC, (4)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (5)Children's National Medical Center, Silver Spring, MD, (6)Yale Child Study Center, New Haven, CT, (7)Department of Psychology, Columbia University, New York, NY, (8)Children's National Medical Center, Rockville, MD

220 ▸ 182.220 Factors Underlying Cross-Cultural and Gender Differences in Stigma Towards ASD: Insights from an Online Training for College Students in Lebanon and the United States K. Gillespie-Lynch[1], N. Najjar Daou[2], M. J. Sanchez Ruiz[3], R. Obeid[4], P. J. Brooks[5], S. K. Kapp[6], F. Someki[5], N. Silton[7] and R. A. Habib[3], (1)CUNY Graduate Center, Brooklyn, NY, (2)American University of Beirut, Beirut, Lebanon, (3)LAU, Beirut, Lebanon, (4)CUNY Graduate Center, New York, NY, (5)College of Staten Island, Staten Island, NY, (6)University of California, Los Angeles, Los Angeles, CA, (7)Marymount Manhattan College, Manhattan, NY

221 ▸ 182.221 Factors Effecting the Age at Diagnosis of Autism Spectrum Disorders in the Kingdom of Saudi Arabia F. Alnemary[1], F. Alnemary[1], H. M. Al Dhalaan[2], G. Simon-Cereijido[3] and A. Hernandez[4], (1) UCLA, Los Angeles, CA, (2)King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (3)Communication Disorders, Cal State LA, Los Angeles, CA, (4)Applied & Advanced Studies in Education, California State University Los Angeles, Los Angeles, CA

222 ▸ 182.222 Study of Changes in Caregiving-Related Parental Stress after Parent Training in Evidence-Based Techniques M. Diamond[1], L. Keenan[2] and M. Habash[3], (1)A Global Voice for Autism, Minneapolis, MN, (2)A Global Voice for Autism, Abu Dhabi, United Arab Emirates, (3)A Global Voice for Autism, Ottawa, ON, Canada

223 ▸ 182.223 Factor Structure and Psychometric Properties of an Arabic Version of the Autism Knowledge Questionnaire F. Alnemary[1] and A. Hernandez[2], (1)UCLA, Los Angeles, CA, (2)Applied & Advanced Studies in Education, California State University Los Angeles, Los Angeles, CA

224 ▸ 182.224 Study of Changes in Autism Sibling Behavior and Attitudes after Participation in Sibling Support M. Diamond[1], L. Keenan[2] and M. Habash[3], (1)A Global Voice for Autism, Minneapolis, MN, (2)A Global Voice for Autism, Abu Dhabi, United Arab Emirates, (3)A Global Voice for Autism, Ottawa, ON, Canada

225 ▸ 182.225 Study of Effects of Parent Training on Parental Activation in Conflict-Affected Communities in Palestine M. Diamond[1], L. Keenan[2] and M. Habash[3], (1)A Global Voice for Autism, Minneapolis, MN, (2)A Global Voice for Autism, Abu Dhabi, United Arab Emirates, (3)A Global Voice for Autism, Ottawa, ON, Canada

226 ▸ 182.226 Development and Adaptation of a Parent-Mediated Behavioral Intervention for Children with Autism Spectrum Disorder in Rural Bangladesh J. M. Blake[1], E. Rubenstein[2], P. C. Tsai[3], H. Rahman[4], S. R. Rieth[5], J. Chan[6], A. Hasmot[4], S. Mehra[1], A. A. M. Hanif[4] and L. C. Lee[3], (1)Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Department of Epidemiology, University of North Carolina, Chapel Hill, NC, (3)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Johns Hopkins University Bangladesh, Gaibandha, Bangladesh, (5)San Diego State University, San Diego, CA, (6)University of California, San Diego, San Diego, CA

227 ▸ 182.227 Challenges to Autism Diagnosis and Service Delivery in the Gaza Strip M. Habash[1] and I. Habash[2], (1)A Global Voice for Autism, Ottawa, ON, Canada, (2)O.B.C, Ottawa, ON, Canada

228 ▸ 182.228 Engaging Low-Income Latino Families in a Community-Based Executive Function Intervention for Children with ASD or ADHD J. Safer-Lichtenstein[1], A. B. Ratto[2], M. Biel[1], L. Kenworthy[3], L. G. Anthony[4] and B. J. Anthony[5], (1)Georgetown University, Washington, DC, (2)Children's National Medical Center, Silver Spring, MD, (3) Children's Research Institute, Children's National Medical Center, Rockville, MD, (4)Children's National Medical Center, Rockville, MD, (5) Georgetown University, Catonsville, MD

229 182.229 Autism on the Screen: Shaping Public Knowledge of Autism A. Nordahl-Hansen[1], M. Tøndevold[2] and S. Fletcher-Watson[3], (1)University of Oslo, Oslo, Oslo, Norway, (2)Institute of Special Need Education, faculty of Education, Oslo, Norway, (3)University of Edinburgh, Edinburgh, United Kingdom

Poster Session
183 - Interventions Pharmacologic
11:30 AM - 1:30 PM - Hall A

230 183.230 Brief Outcomes in Autism Tool (BOAT): Use of a Novel Outcomes Tool to Improve Medication Management in Persons with Autism Spectrum Disorders E. Pedapati[1], R. Shaffer[2], E. Fox[3], L. K. Wink[4], R. Ittenbach[5], J. S. Anixt[6], M. Sorter[3], I. A. Badran[7] and C. Erickson[8], (1) INSAR Cincinnati Children's Hospital Medical Center, Anderson, OH, (2) Cincinnati Children's Hospital Medical Center, Harrison, OH, (3)Division of Psychiatry, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)Child and Adolescent Psychiatry, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (5)Division of Biostatistics and Epidemiology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (6)Division of Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (7)Cincinnati Children's Hospital Medical Center, Mariemont, OH, (8)Cincinnati Children's Hospital Medical Center, Cincinnati, OH

231 183.231 Improvement of Daily Living Skills in Adolescents and Adults with Fragile X Syndrome Following MDX (Metadoxine Extended Release) Administration E. Berry-Kravis[1], J. Rubin[2], E. Harary[3] and Y. Daniely[3], (1)Pediatrics; Biochemistry; Neurological Sciences, Rush University Medical Center, Chicago, IL, (2)Alcobra Pharma, Plymouth Meeting, PA, (3)Alcobra, Ltd, Tel Aviv, Israel

232 183.232 Medication Knowledge, Attitudes, and Readiness for Transition to Healthcare Self-Management in ASD L. B. Silverman[1], K. M. Brown[2], M. A. Steingraeber[2], J. Aldrich[1], T. Smith[1], D. Harris[3] and L. P. Shone[3], (1)Division of Neurodevelopmental and Behavioral Pediatrics, University of Rochester Medical Center, Rochester, NY, (2)University of Rochester, Rochester, NY, (3)American Academy of Pediatrics, Elk Grove Village, IL

233 183.233 Mental Comorbidities and Use of Psychotropic Medications in Patients with Autism Spectrum Disorder in the United States R. C. Ong[1], R. Houghton[1], A. Surinach[2] and F. Bolognani[1], (1)F. Hoffmann-La Roche, Basel, Switzerland, (2)Genesis Research, Hoboken, NJ

234 183.234 Oxytocin-Based Pharmacotherapy for Autism Spectrum Disorders: Investigating the Immediate and Long-Term Effects from a Neural and Behavioral Perspective S. Bernaerts[1], J. Prinsen[1], C. Dillen[2], E. Berra[1], S. Brams[1], N. Wenderoth[1,3] and K. Alaerts[1], (1)University of Leuven - KU Leuven, Leuven, Belgium, (2)Child and Adolescent Psychiatry, KU Leuven, Leuven, Belgium, (3)ETH Zurich, Zurich, Switzerland

235 183.235 Pattern of Use of Psychotropic Medication in Patients with Autism Spectrum Disorder in the United States R. C. Ong[1], R. Houghton[1], A. Surinach[2] and F. Bolognani[1], (1)F. Hoffmann-La Roche, Basel, Switzerland, (2)Genesis Research, Hoboken, NJ

236 183.236 Predicting Response to Pregnenolone Treatment of Irritability in Autism Spectrum Disorder – Preliminary Neurosteroid Metabolomic Analysis L. K. Fung, W. Sun, R. A. Libove, S. Tanaka, J. M. Phillips, J. Rajadas and A. Y. Hardan, Stanford University, Stanford, CA

237 183.237 Psychotropic Medication Trends Among Children and Youth Diagnosed with Autism Spectrum Disorder in a Specialized Paediatric Clinic L. A. Siapno[1], A. Dupuis[2] and S. Smile[3], (1) Developmental Paediatrics, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)The Hospital for Sick Children, Toronto, ON, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

238 183.238 SAR of Phenoxyacetic Acid Analogs As Synergistic Dual Activity Serotonergic Ligands for Potential Use in ASD L. Tran[1], O. M. Ghoneim[1] and A. A. Khalil[2], (1)University of Saint Joseph School of Pharmacy, Hartford, CT, (2)Qatar University-College of Pharmacy, Doha, Qatar

239 ▸183.239 The Influence of Sensory Integration on Behavior, Cognition and Mood in Autistic Children: A Pilot Study C. Gouws, Biokinetics and Sport Science, University of Zululand, Richardsbay, South Africa

Oral Session - 11A
185 - Genetic Mouse Models of Syndromal Autism Spectrum Disorder
1:45 PM - 2:35 PM - Hall B

1:45 185.001 Initial Characterization of a New Loss-of-Function Mouse Model of the Autism Susceptibility Gene Chd8 J. L. Silverman[1], M. C. Pride[1], I. Zdilar[2], A. L. Gompers[2], K. Zarbalis[3], J. N. Crawley[1], A. Visel[4], D. Dickel[4], L. A. Pennacchio[4] and A. S. Nord[2], (1)Psychiatry and Behavioral Sciences, MIND Institute, Sacramento, CA, (2)Center for Neuroscience, Davis, CA, (3) Department of Pathology and Laboratory Medicine, Shriners Hospitals for Children, Northern California, Sacramento, CA, (4) Lawrence Berkeley National Laboratory, Berkley, CA

1:57 185.002 Total Brain Volume Increase and Selective White Matter Loss in the Hgsnat(-/-) and Sgsh (-/-) Mouse Models Related to Sanfillipo Syndrome J. P. Lerch[1], R. Yuen[2], A. Creighton[3], L. Spencer Noakes[1], B. J. Nieman[1], L. Nutter[3], S. W. Scherer[2] and J. Ellegood[1], (1)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (2)Centre for Applied Genomics (TCAG), Hospital for Sick Children, Toronto, ON, Canada, (3)Canadian Mouse Mutant Repository, Toronto Centre for Phenogenomics, Toronto, ON, Canada

2:09 185.003 Mechanisms Underlying Sensitive Periods for Treatment of Cerebellar Mediated Autistic Behavior J. Ellegood[1], Y. Chu[2], J. P. Lerch[1], W. Regehr[3], M. Sahin[4] and P. Tsai[5], (1) Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (2)Neurobiology, Harvard Medical School, Cambridge, MA, (3)Neuroscience, Harvard Medical School, Boston, MA, (4) Department of Neurology, Boston Children's Hospital, Boston, MA, (5)6000 Harry Hines Blvd, University of Texas Southwestern Medical Center, Dallas, TX

2:21 185.004 Social Encounters Reveal Brain Region-Specific Gene Expression Changes in Shank3 Null Mice A. Anacker[1], T. D. Rogers[2] and J. Veenstra-Vander Weele[3], (1)Columbia University, New York, NY, (2)Vanderbilt University Medical Center, Nashville, TN, (3)New York State Psychiatric Institute / Columbia University, New York, NY

Oral Session - 11B

186 - Integrated Approaches and Insight from Related Disorders
2:40 PM - 3:30 PM - Hall B

2:40 186.001 Genome Wide Association Studies of Empathizing and Systemizing V. Warrier[1], R. Toro[2], P. Smith[3], B. Chakrabarti[4], N. Litterman[5], T. Bourgeron[6] and S. Baron-Cohen[3], (1)University of Cambridge, Cambridge, England, United Kingdom, (2)Institut Pasteur, Paris, France, (3)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (4)School of Psychology & Clinical Language Sciences, University of Reading, Reading, United Kingdom, (5)23andMe, Mountain View, CA, (6)Institute Pasteur, Paris, France

2:52 186.002 Homozygous Deletions of Non-Coding DNA Sequences in Autism Spectrum Disorder K. Schmitz-Abe[1,2], G. Sanchez-Schmitz[1,2], E. M. Morrow[3], M. Greenberg[1,2], T. W. Yu[1], C. A. Walsh[1,2] and K. Markianos[1,2], (1)Harvard Medical School, Boston, MA, (2)Children's Hospital Boston, Boston, MA, (3)Department of Molecular Biology, Cell Biology and Biochemistry and Institute for Brain Science, Brown University, Providence, RI

3:04 186.003 Combining Autism and Intellectual Disability Exome Data Yields Insight into Both Disorders J. D. Buxbaum[1], A. E. Cicek[2], L. Klei[3], B. Devlin[4] and K. Roeder[2], (1)Mount Sinai School of Medicine, New York, NY, (2)Carnegie Mellon University, Pittsburgh, PA, (3)University of Pittsburgh Medical Center, Pittsburgh, PA, (4) University of Pittsburgh, Pittsburgh, PA

3:16 186.004 Genes with Extremely High Penetrance for Autism Are Often Involved in Largescale DNA Remodeling E. L. Casanova[1], H. Chakraborty[2], N. S. Sumi[3] and M. F. Casanova[4], (1)Biomedical Sciences, University of South Carolina, Greenville, SC, (2) Biostatistics and Epidemiology, University of South Carolina, Columbia, SC, (3)Epidemiology and Biostatistics, University of South Carolina, Columbia, SC, (4)Pediatrics and Biomedical Sciences, University of South Carolina School of Medicine, Greenville, SC

Oral Session - 12A

187 - Natural Language Processing
1:45 PM - 2:35 PM - Room 307

1:45 187.001 Developmental Deviance of Item-Level Responses on Standardized Language Measures Correlates with Autism Spectrum Disorder Diagnosis A. E. Hare-Harris[1], M. W. Mitchel[1], B. R. King[2], S. M. Myers[1], B. Greene[3], C. L. Martin[1], J. F. Flax[3] and L. M. Brzustowicz[3], (1)Autism & Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (2)Computer Science, Bucknell Univeristy, Lewisburg, PA, (3)Genetics, Rutgers University, Piscataway, NJ

1:57 187.002 Using Social Communication Dynamics Measures for Diagnostic Purposes in Adolescents with Autism Spectrum Disorder V. Romero[1], P. Fitzpatrick[2], R. Schmidt[3] and M. Richardson[1], (1)University of Cincinnati, Cincinnati, OH, (2) Psychology Department, Assumption College, Worcester, MA, (3) College of the Holy Cross, Worcester, MA

2:09 187.003 Linguistic Markers of Autism Spectrum Disorder: Classification Sensitivity and Specificity of Language Produced during Clinical Evaluations J. Parish-Morris[1], R. T. Schultz[2], M. Y. Liberman[3] and C. Cieri[3], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Linguistic Data Consortium, University of Pennsylvania, Philadelphia, PA

2:21 187.004 Learning to Interact: Developmental Trajectories of Linguistic Alignment in ASD R. Fusaroli[1,2], E. Weed[3] and L. Naigles[4], (1)Center for Semiotics, Aarhus University, Aarhus, Denmark, (2)Interacting Minds, Aarhus University, Aarhus, Denmark, (3)Aarhus University, Tranbjerg J, Denmark, (4) University of Connecticut, Storrs, CT

Oral Session - 12B

188 - Minimally Verbal Individuals with ASD
2:40 PM - 3:30 PM - Room 307

2:40 188.001 Minimally Verbal Children with ASD and Cognitive Impairment: Do Definitions Matter? V. Hus Bal[1,2], T. Katz[3,4], S. L. Bishop[1,2] and K. Krasileva[1], (1)Department of Psychiatry, University of California San Francisco, San Francisco, CA, (2) STAR Center for ASD & NDDs, San Francisco, CA, (3)Autism and Developmental Disabilities Clinic, University of Colorado School of Medicine, Aurora, CO, (4)Children's Hospital Colorado and JFK Partners, Aurora, CO

2:52 188.002 What Predicts Speech Development in Young, Minimally Verbal Children with ASD? P. Mirenda[1], I. M. Smith[2], E. Duku[3], P. Szatmari[4], S. E. Bryson[5], E. Fombonne[6], T. Vaillancourt[7], J. Volden[8], L. Zwaigenbaum[9], S. Georgiades[3], T. Bennett[3] and M. Elsabbagh[10], (1)University of British Columbia, Vancouver, BC, Canada, (2)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (3)McMaster University, Hamilton, ON, Canada, (4) Centre for Addiction and Mental Health, Toronto, ON, Canada, (5) Dalhousie University, Halifax, NS, Canada, (6)Oregon Health & Science University, Portland, OR, (7)University of Ottawa, Ottawa, ON, Canada, (8)University of Alberta, University of Alberta, AB, Canada, (9)University of Alberta, Edmonton, AB, Canada, (10) McGill University, Montreal, PQ, Canada

3:04 188.003 Understanding the Changing Face of Autism: Determining Language Profiles of Children with ASD at Age Three Years E. C. Bacon[1], S. Osuna[2], C. Carter[1], D. Cha[1], S. Pence[1], E. Courchesne[1] and K. Pierce[1], (1)Neuroscience, UCSD Autism Center of Excellence, La Jolla, CA, (2)San Francisco Clinical Research Center, San Francisco, CA

3:16 188.004 Exploring Visual Social Attention in Minimally Verbal Children and Adolescents with ASD D. Plesa-Skwerer[1], A. Chu[2], B. Brukilacchio[3] and H. Tager-Flusberg[1], (1)Boston University, Boston, MA, (2)Psychological and Brain Sciences, Boston University, Boston, MA, (3)Harvard Graduate School of Education, Somerville, MA

Oral Session - 13A

189 - Identifying Autism Pathogenesis Using Human Induced Pluripotent Stem Cells (iPSCs)
1:45 PM - 2:35 PM - Room 308

1:45 189.001 Using iPSCs to Model Angelman and Chromosome 15q11.2-q13 Duplication (Dup15q) Syndromes **S. Chamberlain**[1], N. Germain[1], J. S. Hsiao[1] and C. Sirois[1,2], (1)Genetics and Genome Sciences, University of Connecticut Health Center, Farmington, CT, (2)Neuroscience, University of Connecticut Health Center, Farmington, CT

1:57 189.002 ASD Patient-Derived Neural Stem Cells Exhibit Defective Proliferation in Comparison to Sibling Control **M. Williams**[1], S. Prem[2], C. Pinto[3], X. Zhou[4], P. G. Matteson[5], P. Yeung[6], C. W. Lu[6], Z. Pang[6], J. H. Millonig[4] and E. DiCicco-Bloom[7], (1)3rd Floor, Rm 354, Graduate School of Biomedical Sciences, Piscataway, NJ, (2)Neuroscience, Graduate School of Biomedical Sciences, Piscataway, NJ, (3)Rutgers University, New Brunswick, NJ, (4)Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, (5)Rutgers University, Piscataway, NJ, (6)Child Health Institute of New Jersey, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, (7)Rutgers University - Robert Wood Johnson Medical School, Piscataway, NJ

2:09 189.003 Decreased Overall Network Activity in iPSC-Derived Cortical Neurons in Individuals with Idiopathic Autism E. Artimovich[1], A. W. Phillips[1], B. A. DeRosa[2], J. E. Nestor[1], M. L. Cuccaro[2], D. Dykxhoorn[2] and **M. W. Nestor**[1], (1)The Hussman Institute for Autism, Baltimore, MD, (2)The Hussman Institute for Human Genomics, Miami, FL

2:21 189.004 Functional Effect of GRIN2B Alterations in Humans Neuro Progenitor Cells, a Model for Intellectual Disabilities **G. Maussion**, Douglas Mental Health Institute, Montreal, QC, Canada

Oral Session - 13B

190 - Pharmaceutical Interventions for ASD
2:40 PM - 3:30 PM - Room 308

2:40 190.001 The Role of Precompetitive Consortia, Data Sharing and Regulatory Science in Catalyzing Innovation for Autism Spectrum Disorders **D. T. Stephenson**[1], B. Abrahams[2], K. Romero[3], J. Larkindale[4], J. McPartland[5], L. Fitzgerald[6], H. Mayer[7], J. E. Spiro[8], M. T. Pletcher[9] and W. Spooren[10], (1)Critical Path Institute, Tucson, AZ, (2)Albert Einstein College of Medicine, Bronx, NY, (3)Critical Path Institute, tucson, AZ, (4)critical path institute, tucson, AZ, (5)Yale Child Study Center, New Haven, CT, (6)LW Fitzgerald Consulting, LLC, east lyme, CT, (7)Shire, Lexington, MA, (8)Simons Foundation, New York, NY, (9)Autism Speaks, Boston, MA, (10)Roche, Basel, Switzerland

2:52 190.002 Gene Therapy in Fragile X Syndrome **D. R. Hampson**, Pharmaceutical Sciences, University of Toronto, Toronto, ON, Canada

3:04 190.003 A Double-Blind, Placebo-Controlled Trial of Memantine Vs. Placebo in Children with Autism Targeting Neurocognitive Outcomes **L. Soorya**[1], S. Youngkin[2], S. J. Lee[3], J. W. Lee[2], A. Mischel[2], D. Graber[2], D. Grodberg[4], H. T. Rieger[5], D. Zaghloul[6] and E. Anagnostou[7], (1)Suite 603, Rush University Medical Center, Chicago, IL, (2)Rush University Medical Center, Chicago, IL, (3) Rush University Medical Center, Hoffman Estates, IL, (4)Yale Child Study Center, New Haven, CT, (5)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (6)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (7)University of Toronto, Toronto, ON, Canada

3:16 190.004 The Effects of a Novel Vasopressin V1a Antagonist in Combination with Others› Gaze Behaviors on Attention to Others› Heads in Adults with ASD **C. Foster**[1], M. del Valle Rubido[2], J. McCracken[3], E. Hollander[4], L. Scahill[5], L. Boak[6], O. Khwaja[2], F. Bolognani[7], P. Fontoura[8], D. Umbricht[2], S. S. Jeste[9], E. S. Kim[10], R. J. Jou[11], C. A. Wall[1] and F. Shic[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2) F. Hoffmann - La Roche AG, Basel, Switzerland, (3)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (4)Albert Einstein College of Medicine, Mamaroneck 10543, NY, (5)Pediatrics, Marcus Autism Center, Atlanta 30329, GA, (6) F. Hoffmann-La Roche AG, Basel, Switzerland, (7)F. Hoffmann-La Roche, Basel, Switzerland, (8)Roche Pharma Research and Exploratory Development, Basel, Switzerland, (9)Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, CA, (10)The Children's Hospital of Philadelphia, Philadelphia, PA, (11) Yale Child Study Center, Yale School of Medicine, New Haven, CT

Oral Session - 14A

191 - Overlooked Academic and Language Issues in the Treatment of ASD
1:45 PM - 2:35 PM - Room 309

1:45 191.001 Technology-Based Intervention to Teach Mathematics Skills to Students with Autism **G. Yakubova**[1], E. M. Hughes[1] and M. Shinaberry[2], (1)Duquesne University, Pittsburgh, PA, (2) Duquesne University, Pittsbrugh, PA

1:57 191.002 Teaching Reading Skills to Minimally Verbal School-Aged Children with Autism Spectrum Disorders with a Serious Game. a Controlled Study **S. Serret**[1], S. Hun-Billiaut[1], S. Thümmler[2] and F. Askenazy[3], (1)Autism Resource Center, Nice, France, (2)University Child and Adolescent Psychiatry Department, Autism Research Centre, Children's Hospitals of Nice CHU-Lenval, Nice, France, (3)University Child and Adolescent Psychiatry Department, Children's Hospitals of Nice CHU-Lenval, Nice, France

2:09 191.003 The Secondary School Success Checklist (SSSC): A Transition Planning Tool for High School Students on the Autism Spectrum **T. E. Regan**[1], S. Kucharczyk[2], K. Hume[3] and T. White[1], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2) University of Arkansas, Fayetteville, AR, (3)University of North Carolina, Chapel HIll, Carrboro, NC

2:21 191.004 A Randomized Control Trial to Evaluate the Efficacy of a Mobile Application to Treat Prosodic Deficits E. Schoen Simmons[1], C. A. Wall[2], M. Mademtzi[3], M. C. Lyons[2], R. Paul[4] and F. Shic[2], (1)Department of Psychological Sciences, University of Connecticut, Storrs, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)University of Birmingham, Bimringham, United Kingdom, (4)Sacred Heart University, Fairfield, CT

Oral Session - 14B

192 - Issues in Treatment of Anxiety
2:40 PM - 3:30 PM - Room 309

2:40 192.001 Maintenance of Intervention Effects of a Family-Focused Cognitive-Behavioral Treatment for Anxiety in Youth with ASD S. Hepburn[1], A. Blakeley-Smith[2] and J. Reaven[3], (1) Psychiatry & Pediatrics, University of Colorado / JFK Partners/ Neurodevelopmental Behavioral Pediatrics, Aurora, CO, (2)Univ. of Colo. Denver-JFK Partners, Aurora, CO, (3)Univ. of Colorado Denver-JFK Partners, Aurora, CO

2:52 192.002 Treatment Fidelity and Clinician Experience: Implementation of "Facing Your Fears" in Outpatient Settings A. Blakeley-Smith[1], L. G. Klinger[2], A. Keefer[3], A. Duncan[4], S. E. O'Kelley[5], E. Moody[6], S. Hepburn[7] and J. Reaven[8], (1)Univ. of Colo. Denver-JFK Partners, Aurora, CO, (2)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (3) Kennedy Krieger Institute, Baltimore, MD, (4)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (5)Psychology, University of Alabama at Birmingham, Birmingham, AL, (6)University of Colorado Anschutz Medical Campus, Aurora, CO, (7)University of Colorado / JFK Partners, Aurora, CO, (8)Univ. of Colorado Denver-JFK Partners, Aurora, CO

3:04 192.003 Training Clinicians to Deliver Group Cognitive Behavior Therapy to Manage Anxiety in Youth with High-Functioning ASD: Results of a Multi-Site Trial J. Reaven[1], A. Blakeley-Smith[2], L. G. Klinger[3], A. Keefer[4], A. Duncan[5], S. E. O'Kelley[6], A. T. Meyer[7], C. Johnson[8], E. Moody[9] and S. Hepburn[10], (1)Univ. of Colorado Denver-JFK Partners, Aurora, CO, (2)Univ. of Colo. Denver-JFK Partners, Aurora, CO, (3)Psychiatry, University of North Carolina TEACCH Autism Program, Chapel Hill, NC, (4)Kennedy Krieger Institute, Baltimore, MD, (5)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (6)Psychology, University of Alabama at Birmingham, Birmingham, AL, (7)University of North Carolina, Carrboro, NC, (8)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (9)University of Colorado Anschutz Medical Campus, Aurora, CO, (10)University of Colorado / JFK Partners, Aurora, CO

3:16 192.004 High Risk, High Gain: High-Anxiety Adolescents with ASD Make the Most Gains over the Course of Treatment K. S. Willar[1], A. McVey[1], B. Dolan[1], S. Stevens[2], A. M. Carson[3], J. S. Karst[4] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)University of Minnesota, Minneapolis, MN, (3)Autism Center & Psychology Service, Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (4)Children's Hospital of Wisconsin, Wauwatosa, WI

Oral Session - 15A

193 - Mechanisms/Correlates of Psychopathology
1:45 PM - 2:35 PM - Room 310

1:45 193.001 Do Shared Mechanisms in Autism and Depression Underlie This Comorbidity? K. Gotham[1], R. N. Crist[2] and J. W. Bodfish[3], (1)Vanderbilt University, Nashville, TN, (2)Psychiatry, Vanderbilt University School of Medicine, Nashville, TN, (3) Vanderbilt University School of Medicine, Nashville, TN

1:57 193.002 Infant Predictors of School-Age ADHD Symptoms in Siblings at High Familial Risk for ASD E. Shephard[1], B. Milosavljevic[2,3], T. Gliga[4], G. Pasco[5], E. J. Jones[6], F. Happé[7], M. H. Johnson[8] and T. Charman[2], (1)Institute of Psychiatry, Psychology, & Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Psychology, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Birkbeck College, London, United Kingdom of Great Britain and Northern Ireland, (5)Institute of Psychiatry, London, United Kingdom of Great Britain and Northern Ireland, (6)CBCD, Birkbeck College, University of London, London, United Kingdom, (7)Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (8)Birkbeck, University of London, London, United Kingdom of Great Britain and Northern Ireland

2:09 193.003 The Kids Know Best: Adolescent Vs. Caregiver Ratings of Anxiety and Relations to EEG Asymmetry and Respiratory Sinus Arrhythmia B. Dolan[1], K. A. Schohl[1], A. McVey[1], S. Stevens[2], A. M. Carson[3], J. S. Karst[4] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)University of Minnesota, Minneapolis, MN, (3)Autism Center & Psychology Service, Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (4)Children's Hospital of Wisconsin, Wauwatosa, WI

2:21 193.004 Exploring the Structure and Neurocognitive Correlates of Challenging Behaviour in Young People with Autism Spectrum Disorder V. Carter Leno[1], R. Kent[2], T. Charman[2], C. Jones[3], F. Happé[4], G. Baird[5], A. Pickles[1] and E. Simonoff[2], (1)Institute of Psychiatry, Psychology & 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)Social Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom

Oral Session - 15B
194 - Eating Behavior in ASD
2:40 PM - 3:30 PM - Room 310

2:40 194.001 Development and Validation of the Autism Eating Profile Questionnaire E. Gal[1], O. E. Stolar[2] and R. Gal-Mishael[3], (1)University of Haifa, Timrat, Israel, (2)Assaf Harofeh Medical Center, Ra'anana, Israel, (3)ALUT-The Israeli Society for Autistic Children, Giva'atim, Israel

2:52 194.002 Continuous and Extreme Autistic Trait Ratings Are Associated with Avoidant Restrictive Food Intake Disorder G. Wallace[1] and N. L. Zucker[2], (1)The George Washington University, Washington, DC, (2)Duke Center for Eating Disorders, Duke University, Durham, NC

3:04 194.003 Changes in Food Selectivity over 6 Years in Children with Autism Spectrum Disorder L. G. Bandini[1], C. Curtin[1], S. Philips[2], S. E. Anderson[3], M. Maslin[4] and A. Must[5], (1)Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Charlestown, MA, (2)Dept. of Public Health & Community Medicine, Tufts University School of Medicine, Boston, MA, (3) Division of Epidemiology, The Ohio State University College of Public Health, Columbus, OH, (4)E.K. Shriver Center – UMass Medical School, Charlestown, MA, (5)Public Health and Community Medicine, Tufts University School of Medicine, Boston, MA

3:16 194.004 Mealtime Behavior Problems and Spousal Stress Among Children with ASD C. Curtin[1], S. Philips[2], A. Must[3], S. E. Anderson[4] and L. G. Bandini[1], (1)Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Charlestown, MA, (2)Dept. of Public Health & Community Medicine, Tufts University School of Medicine, Boston, MA, (3)Public Health and Community Medicine, Tufts University School of Medicine, Boston, MA, (4) Division of Epidemiology, The Ohio State University College of Public Health, Columbus, OH

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IMFAR Annual Meeting – International Meeting for Autism Research

The year 2016 marks the 15th 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 a 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 2016 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 Hall A on the 1st Floor of the Baltimore Convention Center

Thursday, May 12. . . . . 8:00 a.m. – 7:00 p.m.

Friday, May 13 . . . . . 8:00 a.m. – 7:00 p.m.

Saturday, May 14 . . . . . 8:00 a.m. – 12:00 p.m.

Wireless Internet

Wireless internet is available in all meeting rooms from Wednesday, May 11 – Saturday, May 14. Please follow the instructions bellow to access the Internet:

- Connect to the IMFAR Network
- Enter the Password Research16

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 300 level in Room 306. Press Room hours are:

Thursday, May 12 . . . . . 9:00 a.m. – 5:00 p.m.

Friday, May 13 . . . . . 9:00 a.m. – 5:00 p.m.

Saturday, May 14 . . . . . 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

Baltimore Convention Center
1 West Pratt Street
Baltimore, MD 21201
410-649-7000

Business Center

The Business Center is located in the Pratt Street Lobby adjacent to Room 334.

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 Baltimore Convention Center 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 Baltimore, Maryland If your country does not have a consulate in Baltimore, Maryland, 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 Baltimore Convention Center. 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

2017 — San Francisco, California, USA . . . . . May 10-13

2018 — Rotterdam, the Netherlands . . . . . May 9-12

2019 — Montreal, Canada . . . . . May 1-4

2020 — Seattle, Washington, USA . . . . . May 6-9

Safety and Security Information

The Baltimore Convention Center security team will be on site during the entire IMFAR Congress. In case of emergency please dial "7055" and you will be connected directly to the Baltimore Convention Security Office who will assist you., or you may ask any Baltimore Convention Center Staff member for assistance. Trained Medical Personnel will 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 Venue. Please report any suspicious activity to security staff or to the IMFAR Registration desk staff.

General Safety Tips

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

Contact Information

International Society for Autism Research (INSAR)

342 North Main Street, Suite 301
West Hartford, CT 06117-2507
Phone: 860.586.7575

Email: INSAR@autism-insar.org
Website: www.autism-insar.org

Autism BrainNet
Melissa Miller
UC Davis MIND Institute
2805 50th St
Sacramento, CA 95817
Phone: (877) 333-0999
Email: info@autismbrainnet.org
Website: www.takesbrains.org
www.autismbrainnet.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 neurobiological basis of autism. Autism BrainNet is supported by the Simons Foundation Autism Research Initiative (SFARI) and Autism Speaks. Register at www.takesbrains.org

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Autism Science Foundation
Casey Gold, Operations Manager
106 W. 32nd Street, Suite 182
New York, NY 10001
Phone: (914) 810-9100
Email: cgold@autismsciencefoundation.org
Website: www.autismsciencefoundation.org

The Autism Science Foundation provides funding directly to scientists conducting cutting-edge autism research to discover the cause of autism and develop better treatments. We also provide information about autism to the general public and support the needs of individual with autism and their families.

Autism Speaks
Mathew T. Pletcher, PhD
Interim Chief Scientific Officer
Vice President, Head of Genomic Discovery
85 Devonshire St., 9th Floor
Boston, MA 02109
Phone: (857) 243-0605
Email: info@autismspeaks.org
Website: www.autismspeaks.org

Autism Speaks is the world's leading autism science and advocacy organization. Our science funding focuses on the development, evaluation and dissemination of better methods for screening, diagnosing, treating and supporting those with ASD. We work closely with the autism community in the USA and more than 70 other countries to support initiatives that will improve the lives of those affected by autism.

C.A.R.E Foundation

Saba Torabian, PhD
11642 Dawson Dr.
Los Altos, Ca 94024
Email: info@careautismfoundation.com
Website: www.careautismfoundation.com

CARE Foundation is a nonprofit organization devoted to support low-income families of children with autism to receive autism services for their children including but not limited to funding their autism therapy sessions, drugs & medications, evaluation/ diagnosis, autism summer camps, and anything related to improving the lives of children with autism.

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

EGI provides whole-head EEG systems with 32, 64, 128, or 256 channels. All systems include the Geodesic Sensor Net for easy and comfortable application as well as complete EEG acquisition, review, and analysis software. EGI also offers source estimation software, experimental control workstations, and integrated eye tracking systems.

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Danville, PA 17822-2811
Grace Lowry, Physician Recruiter
Talent Acquisition /Human Resources
Tel: (570) 214-6918
Fax: (570) 271-6988
Email:gblowry@geisinger.edu

Geisinger Health System's Autism & Developmental Medicine Institute (ADMI) in Lewisburg, Pennsylvania offers a new perspective on the evaluation and treatment of children with special needs. In collaboration with Bucknell University, ADMI's vision is to expand and integrate clinical services, research, education, and family support for children with neurodevelopmental disorders.

Interactive Autism Network
Kennedy Krieger Institute
3825 Greenspring Avenue
Painter Building, 1st Floor
Baltimore, MD 21211
Phone: (443) 923-4140
Email: ResearchTeam@IANproject.org

Join us in celebrating our 10th birthday by visiting our booth! The Interactive Autism Network (IAN) facilitates the work of researchers through its online research registry, database, and community resource. With 54,000+ participants, IAN helps researchers recruit subjects, administer online protocols, and engage the public. Find us online at IANcommunity.org.

Center for Autism and Related Disorders
Kennedy Krieger Institute
3901 Greenspring Avenue
Baltimore, MD 21211
Phone: (443) 923-7680 or
(888) 554-2080
TTY: 443-923-2645 or Maryland 711
Website: CARD.KennedyKrieger.org

The Center for Autism and Related Disorders (CARD) at Kennedy Krieger Institute is a multifaceted, interdisciplinary program serving children, families, and professionals in the autism spectrum disorders (ASD) community. CARD combines research, clinical service, a therapeutic day program, and training programs to unlock the potential of children with ASD.

Mangold International GmbH
Graf-von-Deym-Str. 5
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NIH/NIMH
6001 Executive Boulevard
Rockville, MD 20852

Part of the U.S. Department of Health and Human Services, NIH is the largest biomedical research agency in the world. NIH's mission is to seek knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.

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.

The NJ Autism Center of Excellence Coordinating Center at Montclair State University
1 Normal Avenue
Montclair, NJ 07043
Email: hoodkasimk@mail.montclair.edu
Email: mckeatinge@mail.montclair.edu
Website: http.//njace-cc.montclair.edu/home

The NJ ACE CC-MSU coordinates and supports Interagency Autism Coordinating Committee directed research through funding made available by The Governor's Council for Medical Research and Treatment of Autism. Since 2000, the Council has funded 122 studies and 69 unique researchers from bench research to clinical practice.

Prometheus Research
Julie Hawthorne,
Director of Business Development
55 Church St., 7th Floor
New Haven, CT 06510
Phone: (203) 672-5847
Email: Julie@PrometheusResearch.com
Website: www.PrometheusResearch.com/RexStudy

Prometheus' data management platform, RexStudy, underpins some of the largest and most ambitious projects in the field of autism research. From data centralization and remote collaborations to enrollment reporting and NDAR submissions, Prometheus delivers integrated software solutions and best practices to extraordinary research teams and research consortia.

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A. Mark Mento
Director, SMI North America
SensoMotoric Instruments, Inc.
236 Lewis Wharf, Boston, MA 02110
Phone: (617) 557-0010
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Website: www.smivision.com

SMI is a world leader in dedicated computer vision applications, developing and marketing eye & gaze tracking systems and OEM solutions for a wide range of applications such as psychology, neurology and ophthalmology, as well as market and consumer research, usability, ergonomics and HCI. Visit our booth to try the eye tracking solutions yourself!

Simons Foundation
Anastasia Greenebaum
Communications Director
160 Fifth Avenue, 7th Floor
New York, New York 10010
Phone: (646) 654-0066
Email: agreenebaum@simonsfoundation.org
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 250 investigators in the United States and abroad and makes $75M per year in grants for autism research. SFARI also aims to facilitate the field as a whole by developing resources for scientists.

SPARK
Rick Remington, Outreach Manager
Phone: (212) 524-6097
rremington@simonsfoundation.org

SPARK's mission is to speed up research and advance understanding of autism to help improve lives. By building a research community of tens of thousands of individuals with autism and their families, who will be asked to share medical and genetic information, we hope to power important new autism research.

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NOTES

SAVE THE DATE!

2017
IMFAR
Annual Meeting

May 10-13, 2017
Marriott Marquis
San Francisco, California USA

Abstract submission for the 2017 meeting is scheduled to open in early fall 2016.
Watch our website for details.

www.autism-insar.org

IMFAR is the annual meeting of the
International Society for Autism Research

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STRATEGIC INITIATIVES

INSAR Mission Statement

To promote the highest quality autism research in order to improve the lives of individuals affected by Autism Spectrum Disorder.

STRATEGIC GOAL #1

SETTING THE BAR

Increase the quality of research promoted through its annual meeting, journal, and other activities.

STRATEGIC GOAL #2

INTERDISCIPLINARY AND TRANSLATIONAL

Cultivate interdisciplinary and translational research, public-private partnerships, and relationships with industry.

STRATEGIC GOAL #3

DIVERSE AND GLOBAL

Increasingly represent and serve a diverse and global community.

STRATEGIC GOAL #4

NEXT GENERATION

Foster opportunities for leadership and career development for the next generation of ASD researchers.

STRATEGIC GOAL #5

BUILDING IDENTITY

Promote INSAR as the premier society for autism researchers.

STRATEGIC GOAL #6

RESEARCH TO PRACTICE

Disseminate science-based knowledge to inform research priorities, public policy, professional practice, and public understanding.

STRATEGIC GOAL #7

PARTNERSHIPS

Foster communication between autism researchers and individuals affected by autism spectrum disorder.

www.autism-insar.org