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# **9th Annual International Meeting For Autism Research (IMFAR)**

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**Philadelphia • May 20-22, 2010**

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# Program

## Thursday May 20<sup>th</sup>

6:30-5:00P	Registration (Registration Grand Ballroom Pre-Function Lvl 5)			
7:15-8:15A	Coffee and Pastries (Grand Ballroom Pre-Function Lvl 5)			
8:15-8:30A	Greetings from the IMFAR organizers (Grand Ballroom AF Lvl 5)			8:00-1:00P Poster & Exhibits (Franklin Hall B Lvl 4)
8:30-9:30A	Keynote: Jacqueline Crawley: "Mouse Models of Autism to Discover Causes and Develop Treatments"			
9:30-10:00A	Break (Franklin Hall B Lvl 4)			
10:00-12:00P	IES: Neuro-Imaging Genetics (Grand Ballroom F Lvl 5)			
10:00-12:00P	Oral Session: Cognition 1 (Grand Ballroom CD Lvl 5)	Oral Session: Epidemiology 1 (Grand Ballroom AB Lvl 5)	Oral Session: Treatment 1 (Grand Ballroom E Lvl 5)	Social Function, Communication, Sensory Systems, Developmental Stages, Language, Imitation & Play
12:00-1:15P	Lunch Break			
12:15-1:15P	SIG: Postmortem Brain Research (Grand Ballroom CD Lvl 5)	SIG: EEG & MEG (Grand Ballroom AB Lvl 5)	SIG: Sleep and Autism (Grand Ballroom E Lvl 5)	
1:30-3:30P	IES: The Ethics of Communicating Scientific Risk (Grand Ballroom F Lvl 5)			1:00-5:30P Posters & Exhibits (Franklin Hall B Lvl 4)
1:30-3:30P	Oral Session: Communication & Language (Grand Ballroom CD Lvl 5)	Oral Session: Neurophysiology (Grand Ballroom AB Lvl 5)	Oral Session: Brain Imaging 1 (Grand Ballroom E Lvl 5)	
3:30-4:00P	Break (Franklin Hall B Lvl 4)			
4:00-4:30P	Tom Insel: IACC Update: (Grand Ballroom AF Lvl 5)			
4:30-6:00P	Lifetime Achievement Award and Presentations (Grand Ballroom AF Lvl 5) Edward R. Ritvo: "Forty Years Along The Research Trail"			Social Function, Developmental Stages, Treatment, Clinical Phenotype & Cognition
6:00-8:00P	Reception ( Franklin Hall A Lvl 4)			

## Friday May 21<sup>st</sup>

6:30-5:00P	Registration (Registration One Lvl 5)			
7:00-8:00A	Coffee & Pastries (Grand Ballroom Pre-Function Lvl 5)			
8:00A-1:00P	Innovation Technologies Demonstration Session (Franklin Hall 2 Lvl 4)			
8:00-8:15A	Introduction: Autism Speaks (Grand Ballroom AF Lvl 5)			8:00-1:00P Poster & Exhibits (Franklin Hall B Lvl 4)
8:15-9:15A	Keynote: Barbara Burns: "Adopting Evidence-Based Practice for Children with Autism: What Will it Take?"			
9:15-9:45A	Break (Franklin Hall B Lvl 4)			Clinical Phenotype, Repetitive Behaviors, Motor Systems, Human Genetics, Brain Imaging & Services
9:45-11:45A	IES: What Really Matters: Measuring Outcomes and Addressing the Needs of Adolescents and Adults with ASD (Grand Ballroom F Lvl 5)			
9:45-11:45A	Oral Session: Cognition 2 Grand Ballroom E Lvl 5)	Oral Session: Model Systems (Grand Ballroom AB Lvl 5)	Oral Session: Social Function (Grand Ballroom CD Lvl 5)	
11:45-1:00P	Lunch Break			
12:00-1:00P	SIG: Interventions for School-Age Children (Grand Ballroom E Lvl 5)	SIG: Sensory Dysfunction (Grand Ballroom AB Lvl 5)	SIG: Motor Action Development (Grand Ballroom CD Lvl 5)	Innovative Technologies Demonstration
1:15-3:15P	IES: Future Approaches to the Psychopharmacology of Autism (Grand Ballroom F Lvl 5)			
1:15-3:15P	Oral Session: Clinical Phenotype 1 (Grand Ballroom E Lvl 5)	Oral Session: Services 1 (Grand Ballroom AB Lvl 5)	Oral Session: Epidemiology 2 (Grand Ballroom CD Lvl 5)	1:00-5:30P Poster & Exhibits (Franklin Hall B Lvl 4)
3:15-3:45P	Break (Franklin Hall B Lvl 4)			
3:45-4:45P	Oral Session: Human Genetics (Grand Ballroom CD Lvl 5)	Developmental Trajectories in ASD (Grand Ballroom AB Lvl 5)	Very Early Intervention for ASD: Research Challenges & Promising Results (Grand Ballroom E Lvl 5)	Treatment, Neuropathology Brain Imaging, Comorbidities Cell Culture & Animal Models
4:45-5:45P		The Role of the Corpus Callosum in Autism (Grand Ballroom AB Lvl 5)	Preschool Autism Communication Trial (Grand Ballroom E Lvl 5)	
4:45-5:45P	Autism Instructional Methods Study: Opportunities & Challenges for Moving Intervention into Community Settings (Grand Ballroom F Lvl 5)			
6:00-7:15P	Special Presidential Lecture: Autism and Society ( Grand Ballroom AB/F Lvl 5) Keynote: Jacqui Russell: "The Red Kite Project: Entertaining Children With Autism"			

## Saturday May 22<sup>nd</sup>

6:30-1:30P	Registration (Registration Desk One Lvl 5)			
7:00-8:00A	Coffee & Pastries (Grand Ballroom Pre-Function Area Lvl 5)			
8:00-8:15A	Introduction: Simons Foundation (Grand Ballroom A-F Lvl 5)			8:00-1:00P Posters & Exhibits (Franklin Hall B Lvl 4)
8:15-9:15A	Keynote : Amanda Woodward: "Infants' grasp of others' intentions"			
9:15-9:45A	Break (Franklin Hall B Lvl 4)			Services, Human Genetics, Neurophysiology, Cognition & Epidemiology
9:45-11:45A	IES: Medical Care of Children and Adolescents with ASD: Findings From the Autism Treatment Network (Grand Ballroom F Lvl 5)			
9:45-11:45A	Oral Session: Brain Imaging 2 (Grand Ballroom ELvl 5)	Oral Session: Neuropathology (Grand Ballroom AB Lvl 5)	Oral Session: Comorbidities (Grand Ballroom CD Lvl 5)	
11:45-1:00P	Lunch Break			
12:00-1:00P	Business Meeting (Grand Ballroom F Lvl 5)			
1:15-3:15P	IES: The Relationship between Epilepsy and Autism (Grand Ballroom F Lvl 5)			
1:15-3:15P	Oral Session: Developmental Stages, Imitation and Play (Grand Ballroom E Lvl 5)	Oral Session: Treatment 2 (Grand Ballroom AB Lvl 5)	Oral Session: Clinical Phenotype 2 (Grand Ballroom CD Lvl 5)	

## IMFAR Welcome

Welcome to IMFAR 2010! We are thrilled to host this year's meeting in Philadelphia and look forward to a vibrant three days of scientific presentation and dialogue.

This year the Program Committee of IMFAR reviewed nearly 1000 abstracts from around the world and we will be hearing from 204 speakers in oral sessions and will review and discuss the work of 750 others in poster presentations. You will see the extraordinary breadth of research topics covered at the conference in this program booklet. Please note that there are also a number of Invited Educational Symposia on topics ranging from Neuro-Imaging Genetics to Future Approaches to the Psychopharmacology of Autism. We have also scheduled six lunchtime special interest groups (SIGs) covering sleep, post-mortem brain research, EEG and MEG, school age intervention, motor action development and sensory dysfunction. We expect a rich and information-filled meeting and look forward to your feedback at its conclusion.

We would like to take this opportunity to thank the many individuals who contribute their time to both INSAR and to the organization of our annual meeting. The INSAR Board, the Scientific Program Committee and the countless abstract reviewers help make the meeting more successful each year. Welcome, once again, and we hope you enjoy every moment of IMFAR 2010!

Jennifer Pinto-Martin, PhD, MPH  
IMFAR Conference Chair

David G. Amaral, Ph.D  
President, INSAR

## President's Address

## President's Welcome

Dear Friends:

On behalf of the Board of Directors of INSAR, I'd like to welcome you to IMFAR 2010. We are all expecting a very exciting and informative meeting in Philadelphia. While the goal for IMFAR has always been the presentation, discussion and debate of the highest quality autism research, the success of previous meetings has allowed INSAR to take on new challenges. This year, the Program and Meeting Chairs along with the Board of Directors have made many new efforts to foster networking among the attendees. The number of Special Interest Group sessions has been increased to six and provide the context for individuals with similar interests, and those who desire to become involved in these areas, to meet and share expertise. The Diversity Committee has organized a luncheon sponsored by Autism Speaks to foster networking by individuals from developing countries as well as others involved in international autism research. This committee has also established a Family and Friends room as a respite for families attending with children. The Autism Science Foundation is sponsoring luncheons for its graduate student awardees and has also provided grants to a number of family members to attend IMFAR.

While IMFAR is first and foremost a scientific meeting, the Board feels strongly that every effort must be made to convey the latest scientific findings to the greater autism community that has advocated for increased support for our research efforts. For the first time, IMFAR was preceded by a one-day INSAR-supported meeting to benefit the lay autism community of metropolitan Philadelphia. We hope to make this a permanent component of the annual IMFAR meeting. We have also established a Public Relations committee chaired by Alison Singer and Dana Marnane in order to provide a better interface between IMFAR and the media. Finally, we have reinstated the reception following the awards ceremony to allow a little time for attendees to socialize.

The IMFAR meeting is a work in progress and we expect to continue making changes to improve future meetings. Your feedback is important to us so I welcome your comments on what went right at IMFAR 2010 and what areas you think can be improved. Please watch for an online survey link that will be sent out following the meeting.

For their incredible efforts in putting IMFAR 2010 together, I would like to thank Program Chairs David Mandell and Manny DiCicco-Bloom and Meeting Chairs, Jennifer Pinto-Martin and Susan Levy.

Please enjoy IMFAR 2010.

David G. Amaral, Ph.D.  
INSAR President

## IMFAR 2010 Scientific Program

Dear IMFAR Attendees,

We have instituted many exciting changes this year in the scientific program that we hope will enhance your experience. Included in the Program Book are the titles, locations and times of the more than 950 accepted abstracts.

There are several new features this year that address our goal of providing research themes that more directly reflect interests of IMFAR attendees and INSAR membership. First, the Invited Educational Symposia (IES) all were chosen from member submissions, rather than topics solicited directly by the Program Committee. Our hope is that this will increase the diversity and timeliness of research topics presented. Second, we included hour-long Scientific Panels of three or four closely linked presentations on the same topic or study, chosen from more than 30 submissions. Our hope is this will allow for a more in-depth presentation of research findings than is often allowed through our more traditional formats.

Based on the success of the Special Interest Group (SIG) on Sleep at the 2009 meeting, we have expanded to six SIGs. These SIGs will take place at lunch time on Thursday and Friday, and offer IMFAR attendees opportunities to network with those who share similar research interests. Also, we have continued and expanded the Technology Demonstration Session that will take place on Friday morning, and presents innovative developments in technology related to autism research and practice.

The meeting is organized into six half day intervals, each with a separate section in the Program Book. Each morning starts with a Keynote Speaker, followed by a Coffee Break. During the next two hours, we have the Invited Educational Symposium (IES), composed of three or four speakers, which occurs in parallel with three Oral Sessions. Throughout the morning, one has the option to visit posters (up for the entire morning). Presenters will be present for at least the hour indicated by the time stated in the program. The Program Book lists every presented abstract, especially the posters, which comprise more than 80% of all presentations.

**POSTER PRESENTATIONS:** All Posters will be presented for a half day in Franklin Hall on the fourth floor. You will find the push pins needed to hang your posters in each room. Your poster should be up during the full 4 hour period of the session. While you are welcome to be at your poster for the entire half day, please attend your poster during the one-hour period starting at the assigned time noted in the Program Book. Please promptly remove your poster at the end of each session, especially after the morning session, so that the afternoon presenters can prepare their posters in a timely manner.

The afternoon starts with lunch. This year, you will receive gift certificates to Reading Terminal Market, the oldest continuously operating public market in the United States, with more than 80 vendors. This Philadelphia institution is across 11th Street on the east side of the conference hotel. The market offers a diversity of options and allows you to quickly get lunch and return to the hotel for various conference-related lunch time activities.

The second poster session of the day starts after lunch. Also immediately after lunch, there is another series of parallel IES and Oral presentations, followed by a coffee break. On Thursday following the break, Dr. Tom Insel, Director of the National Institute of Mental Health, will provide a brief update on NIMH activities. This will be followed by the Lifetime Achievement Award presentation to Dr. Edward Ritvo and then a reception, to which all are welcome. On Friday following the afternoon break, there will be parallel Oral Sessions and Scientific Panels. The day will end with the Special Presidential Lecture by Jacqui Russel entitled "The Red Kite Project: Entertaining Children With Autism." On Saturday, the day will end after the afternoon IES and Oral presentation. This year we expect the flow of the meeting oral presentations to be enhanced by use of the Confex recording system. All presentation will be loaded ahead of time, and attendees can view all Keynotes, IESs and Lifetime Achievement Award presentations online at the INSAR website after the meeting.

The Program Book is organized in sections for each half day. To provide an overview of each half day's schedule, the entire program is briefly described over the first few pages. This way you can view Keynotes and IES sessions without having to page through the titles of every abstract in the Oral and Poster sessions. Each half day lists every abstract presentation that occurs, eight of them in each Oral Session, and about 160 poster presentations in each half day. The Author Name Index at the back links abstracts to their authors alphabetically by author. Abstract numbers in bold indicate the presenting author.

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

We would like to acknowledge the tireless contributions of Allena Buchholz of Confex for her dedication to the processes of abstract submission and review and Program and Abstract Book preparation and Joe Dymek of Conference Direct for meeting planning, organization and implementation.

David Mandell, ScD  
Scientific Program Committee Chair

Manny DiCicco-Bloom, MD  
Scientific Program Committee Co-Chair

# IMFAR 2010 Awardess

## Student Awards

Allen, Rory	University of London
Azadi, Bahare	Kings College
Bedford, Rachel	University of London
Block, Heidi	University of Utah
Cook, Jennifer	University College London
Crepel, An	University of Leuven
De La Marche, Wouter	University of Leuven
Deerrose Bries, Erik	Stanford
Elmensdrop, Sharon	University of California Santa Barbara
Evers, Kris	University of Leuven
Fisher, Imri	Tel Aviv University
Fung, Germaine	University of Hong Kong
Ferguson, Shirley	University of Canberra
Galle, Sara	University of Montreal
Gerdts, Jennifer Varley	University of Washington
Guzzetta, Giorgio	University of Trento
Hellinckx, Tinneke	University of Ghent
Hinkley, Leighton	UCSF
Hong, David	Stanford
Li, Meng-Chuan	University of Cambridge
Lyll, Kristen	Harvard University
Magalhaes, Tiago	Instituto de Saude
Maljaars, Jarymke	Leiden University
Merkangas, Alison	Trinity College
Miller, Meghan	University of California Berkeley
Palmer, Clare	University of Cambridge
Robertson, Ashley	University of Glasgow
Ruysschaert, Lieselot	University of Ghent
Sharda, Megha	National Brian Research Center
Van Eylen, Lien	University of Leuven
Wang, Jessica	Weill Cornell Medical College
White, Carolyn	Alliant University
Wild, Kelly	University of Manchester
Williams, David	
Yehonatn-Schori, Maya	Bar Ilan

## Diversity Awards

Alvarez, Shanna	University of Washington
Arroyo, Maraisa	Georgia State
Arroyo, Monica	University of Puerto Rico
Austin, Sarita	Hunter College
Bahng, Christie	University of California Santa Barbara
Cariello, Annahir	Brigham Young University
Carrillo, Crystal	University of California Santa Barbara
Huai, Nan	University of Wisconsin
Huang, Weihe	Southern Illinois University
Park, Mi Na	University of California Santa Barbara
Perry, Timothy	University of North Carolina
Perryman, Twyla	Vanderbilt University
Powell, Kelly	American University
Sinhg, Anjileen	University of California Santa Barbara
Suarez, Joanne	University of California Davis

**Professionals from Developing Countries Awards**

Almuslamani, Ahood	Saudi Arabia
Essa, Mohamed	Oman
Ghoneim,	Ola Qatar
Herguner, Sabri	Turkey
Igwe, Monday	Nigeria
Juneja, Ritu	India
Kakooza-Mwesige, Angelina	Uganda
Nguyen, Yen Thi Hoang	Vietnam
Rattazzi, Alexia	Argentina
Sheppard, Elizabeth	Malaysia
Singh, Nandini	India
Singhal, Nidhi	India
Usha Rajamma	India
Vaidya, Subhangi	India
Valica, Tatiana	Moldova
Waly, Mostafa Ibrahim	Oman

**Lifetime Achievement Award**

Ritvo, Edward	University of California Los Angeles
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## Acknowledgments

# Acknowledgments

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

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 Courtenay Norbury  
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 Helen Tager-Flusberg  
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 Audrey Thurm  
 Rutger Jan Van der Gaag  
 Mitzi M. Waltz  
 Zachary Warren  
 Sara Jane Webb  
 John P. Welsh

## Program

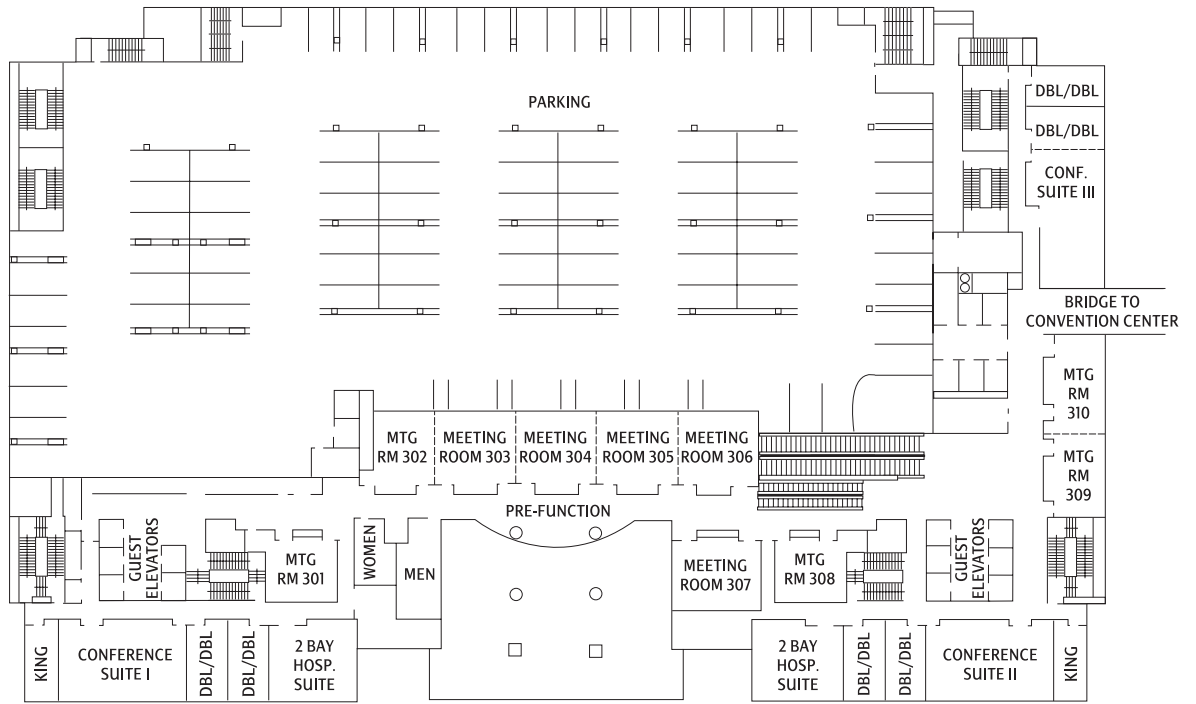
Data presented at the annual International Meeting for Autism Research (IMFAR) is the sole responsibility of the authors. The sponsor of the annual Meeting, the International Society for Autism Research (INSAR), takes no responsibility for its accuracy. Submitted IMFAR abstracts are reviewed only to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

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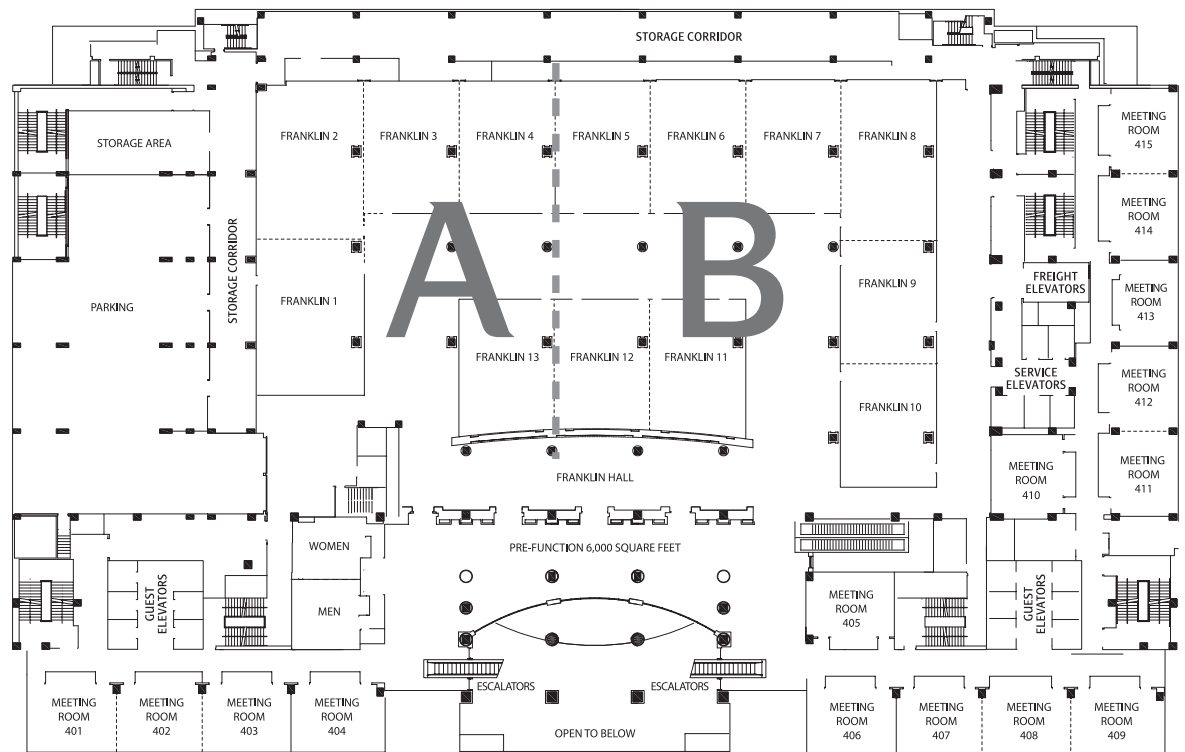
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# Hotel Floor Plan

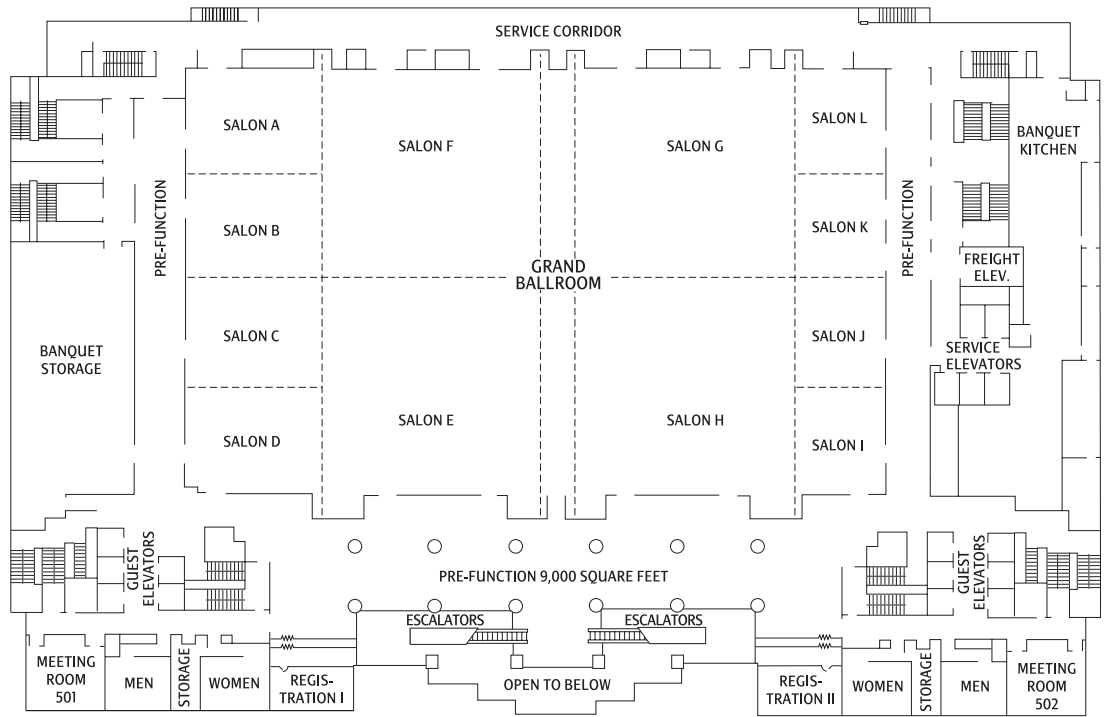
## Third Floor Rooms and Suites



## Fourth Floor Franklin Hall



Fifth Floor  
Grand Ballroom



Thursday May 20 – AM				
6:30-5:00P	Registration (Registration Grand Ballroom Pre-Function Lvl 5)			
7:15-8:15A	Coffee and Pastries (Grand Ballroom Pre-Function Lvl 5)			
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**Keynote Address**  
**100 Mouse Models of Autism to Discover Causes and Develop Treatments**

8:30 AM - 9:30 AM - Grand Ballroom A-F Level 5

*Speaker: J. N. Crawley; National Institute of Mental Health, National Institutes of Health*

Searching for the causes and cures for autism depends on strong animal models. As candidate genes linked to autism are identified, mice with targeted mutations of these genes are becoming available. Model organisms offer useful translational tools to test hypotheses about single genes, chromosomal locus deletions, copy number variants, epigenetic DNA methylation, neuroanatomical abnormalities, immune dysfunctions, diets, environmental toxins, and other proposed causes of autism.

The key to successful translational applications is robust, highly replicable functional assays. Our laboratory has generated a constellation of mouse behavioral paradigms with conceptual analogies to the three diagnostic symptoms of autism. This presentation will focus on behavioral tests for mice that offer reasonable face validity to the defining symptoms of autism. The core deficit in reciprocal social interactions is modeled longitudinally across developmental stages with juvenile and adult reciprocal social interaction scoring and automated social approach paradigms. Communication in mice is investigated with measures of the emission, detection, and responses to olfactory and auditory social cues. Motor stereotypies, repetitive behaviors, insistence on sameness, and narrow restricted interests are analyzed in mice by quantitating spontaneous stereotyped motor behaviors, repetitive self-grooming, perseveration during the reversal phase of T-maze and Morris water maze spatial tasks, and restricted exploration of complex environments. Behavioral assays relevant to the associated symptoms of autism, including anxiety, seizures, sleep disruption, low IQ, and hyperreactivity to sensory stimuli, may provide further insights into the phenotypes of a mouse model of autism spectrum disorders. Comprehensive control tests for general health, motor functions, and sensory abilities are conducted, to detect potential

confounds due to physical defects, thus avoiding overinterpretations of artifacts.

Both forward genetics and reverse mouse genetics are employed in our laboratory to understand the genetic basis of social, communication, and repetitive behaviors. Results from knockout mice with targeted mutations in candidate genes for autism will be described. BTBR T+tf/J, an inbred strain that displays autism-like traits on many of these tasks, will be used to illustrate phenotypes of a robust mouse model of autism.

Targeted gene mutations and inbred strains of mice that incorporate traits with face validity to the diagnostic and associated symptoms of autism offer attractive model systems to evaluate potential treatments. Early preclinical results will be presented on drug treatments and environmental interventions that reverse components of the autism-relevant behavioral phenotypes in the BTBR mouse model of autism.

**Invited Educational Symposium**  
**101 Neuroimaging Genetics: Bridging Disciplines**

10:00 AM - 12:00 PM - Grand Ballroom F Level 5

*Moderator: L. Davis; University of Iowa*

Efforts to integrate neuroimaging and genetics are well underway in the study of schizophrenia and ADHD and are gaining momentum in the study of autism. While imaging genetics is of very high interest to many investigators, methods and best practices in this young field are still undefined. The current lack of cohesive best practices makes neuroimaging studies both daunting to initiate and difficult to interpret for new investigators. The session will introduce the attendee to neuroimaging genetics by reviewing the state of the field and identifying current gaps in knowledge. Speakers will clarify some of the practical and theoretical issues surrounding the integration of these two fields and finally, data from current studies of neuroimaging genetics will be presented. The session will consist of three 30 min lectures with 10 minutes following each for questions and discussion.

- 10:00 **101.001**  
Imaging Genetics: Translating Genetic Association Into Neural Mechanisms of Illness. D. Weinberger\*, *National Institutes of Health*
- 10:40 **101.002**  
Neural systems approaches to the neurogenetics of autism spectrum disorder?. J. Piggot\*, *University of California, Los Angeles*
- 11:20 **101.003**  
Genetic Variation of the Serotonin System and Cortical Enlargement in Autism. T. Wassink\*, *University of Iowa*

## Oral Sessions

### 102 Cognition 1

10:00 AM - 12:00 PM - Grand Ballroom CD Level 5

- 10:00 **102.001**  
A Multilevel Analysis of Response Monitoring in Higher Functioning Children with Autism. H. A. Henderson\*<sup>1</sup>, L. Mohapatra<sup>1</sup>, C. Hileman<sup>1</sup>, K. E. Ono<sup>1</sup>, C. Schwartz<sup>2</sup>, N. Kojkowski<sup>1</sup>, M. Jaime<sup>1</sup> and P. C. Mundy<sup>3</sup>, (1)*University of Miami*, (2)*Yale University*, (3)*UC Davis*
- 10:15 **102.002**  
Distinguishing Gaze Aversion From Gaze Indifference in Two-Year-Olds with Autism. J. M. Moriuchi\*<sup>1</sup>, A. Klin<sup>1</sup> and W. Jones<sup>2</sup>, (1)*Yale University School of Medicine*, (2)*Yale School of Medicine*
- 10:30 **102.003**  
Eye-Blinking as An Index of Perceived Stimulus Relevance in Toddlers with Autism Spectrum Disorder. S. Shultz\*<sup>1</sup>, W. Jones<sup>1</sup> and A. Klin<sup>2</sup>, (1)*Yale School of Medicine*, (2)*Yale University School of Medicine*
- 10:45 **102.004**  
Post-Decision Wagering Shows That ASD Subjects Appear to Be Unusually Confident in Their Choices During a Motion Discrimination Task. R. J. Krauzlis\* and N. Dill, *Salk Institute for Biological Studies*
- 11:00 **102.005**  
The Effects of Social Context On Perception of Audiovisual Synchrony in Infants with Autism. J. B. Northrup\*<sup>1</sup>, J. Xu<sup>1</sup>, G. Ramsay<sup>1</sup>, A. Klin<sup>2</sup> and W. Jones<sup>1</sup>, (1)*Yale School of Medicine*, (2)*Yale University School of Medicine*
- 11:15 **102.006**  
Age Trends in the Allocation of Voluntary Attention in Typical Development and Autism. N. Sasson\*<sup>1</sup>, J. T. Elison<sup>2</sup>, L. Turner-Brown<sup>3</sup> and J. W. Bodfish<sup>4</sup>, (1)*University of Texas at Dallas*, (2)*University of North Carolina at Chapel Hill*, (3)*UNC-Chapel Hill*, (4)*University of North Carolina - Chapel Hill*
- 11:30 **102.007**  
Driving Hazard Perception in Autism: An Eye Tracking Study. E. Sheppard\*<sup>1</sup>, D. Ropar<sup>2</sup>, G. Underwood<sup>2</sup> and E. Van Loon<sup>2</sup>, (1)*University of Nottingham Malaysia Campus*, (2)*University of Nottingham*
- 11:45 **102.008**  
Self-Referential Gaze Judgements Are Impaired in Autism. M. McWhirr\*<sup>1</sup>, J. H. G. Williams<sup>1</sup>, D. I. Perrett<sup>2</sup> and J. S. Lobmaier<sup>3</sup>, (1)*University of Aberdeen*, (2)*University of St Andrews*, (3)*Universität Bern*

## Oral Sessions

### 103 Epidemiology 1

10:00 AM - 12:00 PM - Grand Ballroom AB Level 5

- 10:00 **103.001**  
Head Circumference Across the First Year of Life Correlates with a Positive Screen for Autism at Age 36 Months. M. Hornig\*<sup>1</sup>, M. Bresnahan<sup>1</sup>, D. Hirtz<sup>2</sup> and A. B.C. Study Group<sup>3</sup>, (1)*Columbia University*, (2)*National Institutes of Health*, (3)*Columbia University and Norwegian Institute of Public Health*
- 10:15 **103.002**  
Association Between Ovulation Inducing Drug Use, Infertility, and Autism Spectrum Disorders in the Nurses' Health Study II. K. Lyall\*<sup>1</sup>, D. L. Pauls<sup>2</sup>, S. L. Santangelo<sup>2</sup>, D. Spiegelman<sup>1</sup> and A. Ascherio<sup>1</sup>, (1)*Harvard School of Public Health*, (2)*Massachusetts General Hospital*
- 10:30 **103.003**  
Diagnostic Prevalence of ASD in An Older Low Birth Weight Cohort. J. Pinto-Martin\*<sup>1</sup>, S. E. Levy<sup>2</sup>, J. Feldman<sup>3</sup>, A. Whitaker<sup>3</sup>, J. Lorenz<sup>3</sup> and N. Paneth<sup>4</sup>, (1)*University of Pennsylvania*, (2)*Children's Hospital of Philadelphia*, (3)*Columbia University Medical Center*, (4)*Michigan State University*
- 10:45 **103.004**  
In Vitro Fertilization and Prematurity Are Prenatal Risk Factors Associated with Autism Spectrum Disorder but Not with Autism Severity. D. A. Zachor\*<sup>1</sup>, E. Lahat<sup>1</sup> and E. Ben Itzhak<sup>2</sup>, (1)*Tel Aviv University / Assaf Harofeh Medical Center*, (2)*Ariel University Center of Samaria*
- 11:00 **103.005**  
The Sex-Specific Risk of Autism Spectrum Disorders Following Low Birth Weight. L. Hjort\*<sup>1</sup>, M. B. Lauritsen<sup>2</sup>, P. Thorsen<sup>3</sup> and E. Parner<sup>1</sup>, (1)*University of Aarhus*, (2)*Regional Centre for Child and Adolescent Psychiatry, Aarhus University Hospital*, (3)*Atlanta*
- 11:15 **103.006**  
Testing the Fractionable Autism Triad Hypothesis Further: Evidence From a General Population Twin Sample at Age 12. E. Robinson\*<sup>1</sup>, K. Koenen<sup>1</sup>, M. McCormick<sup>1</sup>, K. Munir<sup>2</sup>, V. Hallett<sup>3</sup>, F. Happe<sup>3</sup>, R. Plomin<sup>3</sup> and A. Ronald<sup>4</sup>, (1)*Harvard School of Public Health*, (2)*Children's Hospital Boston*, (3)*Institute of Psychiatry, King's College London*, (4)*Birkbeck College, University of London*
- 11:30 **103.007**  
Maternal Infection During Pregnancy and Risk of Autism Spectrum Disorders. L. A. Croen\* and Y. Qian, *Kaiser Permanente*
- 11:45 **103.008**  
Maternal Smoking During Pregnancy and Prevalence of Autism Spectrum Disorders. A. E. Kalkbrenner\*<sup>1</sup>, J. L. Daniels<sup>1</sup>, J. M. Braun<sup>1</sup>, C. M. Cunniff<sup>2</sup>, M. Durkin<sup>3</sup>, L. C. Lee<sup>4</sup>, J. Nicholas<sup>5</sup> and S. Pettygrove<sup>6</sup>, (1)*University of North Carolina*, (2)*University of Arizona College of Medicine*, (3)*University of Wisconsin-Madison*, (4)*Johns Hopkins Bloomberg School of Public Health*, (5)*Medical University of South Carolina*, (6)*University of Arizona*

# Program

## Oral Sessions

### 104 Treatment 1

10:00 AM - 12:00 PM - Grand Ballroom E Level 5

- 10:00 **104.001**  
A Randomized Trial: Group Cognitive Behavior Therapy for Children with High-Functioning Autism Spectrum Disorders and Anxiety. J. Reaven\*<sup>1</sup>, A. Blakeley-Smith<sup>2</sup>, K. Culhane-Shelburne<sup>2</sup> and S. Hepburn<sup>1</sup>, (1)*University of Colorado Denver School of Medicine*, (2)*JFK Partners, University of Colorado Denver School of Medicine*
- 10:15 **104.002**  
Effectiveness of Cognitive-Behavioral Therapy for Children with Autism Spectrum Disorder and Anxiety. R. McNally Keehn\*<sup>1</sup>, M. Brown<sup>1</sup>, D. Chavira<sup>2</sup> and A. J. Lincoln<sup>1</sup>, (1)*Alliant International University*, (2)*University of California San Diego*
- 10:30 **104.003**  
Improving Social Responsivity and Friendship Skills for Adolescents with Autism Spectrum Disorders: A Review of the UCLA PEERS Program. E. Laugeson\*<sup>1</sup>, F. Frankel<sup>1</sup>, A. Gantman<sup>1</sup>, C. Mogil<sup>1</sup> and A. R. Dillon<sup>2</sup>, (1)*UCLA Semel Institute for Neuroscience & Human Behavior*, (2)*Pacific Graduate School of Psychology*
- 10:45 **104.004**  
Social Inclusion of Children with ASD at School: Effects of a Randomized Controlled Treatment Study. C. Kasari\*<sup>1</sup>, *University of California, Los Angeles*
- 11:00 **104.005**  
The Secret Agent Society: A Multimedia Curriculum for Enhancing the Social Skills of Children with Asperger's Disorder. R. B. Beaumont\* and K. V. Sofronoff, *University of Queensland*
- 11:15 **104.006**  
Learning through Interaction. D. Casenhiser\*<sup>1</sup>, S. Shanker and J. Stieben, *York University*
- 11:30 **104.007**  
Type, Function, and Complexity of Language Gains in Young Children with Autism Spectrum Disorder Following Behavioral Intervention. C. Hoffman\*<sup>1</sup>, S. Dufek<sup>2</sup>, M. Rocha<sup>2</sup>, L. Schreibman<sup>2</sup>, A. Stahmer<sup>3</sup>, R. L. Koegel<sup>4</sup> and L. K. Koegel<sup>4</sup>, (1)*UCSD Autism Research Program*, (2)*University of California, San Diego*, (3)*Rady Children's Hospital*, (4)*University of California, Santa Barbara*
- 11:45 **104.008**  
Using the Tools of the Trade: The ADOS as a Measure of Treatment Change. S. Dufek\*<sup>1</sup>, C. Corsello<sup>2</sup>, N. Akshoomoff<sup>1</sup>, L. Schreibman<sup>1</sup>, A. Stahmer<sup>3</sup>, R. L. Koegel<sup>4</sup> and L. K. Koegel<sup>4</sup>, (1)*University of California, San Diego*, (2)*Rady Children's Hospital - San Diego*, (3)*Rady Children's Hospital*, (4)*University of California, Santa Barbara*

## Poster Sessions

### 105 Autism Symptoms

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **1** **105.001**  
Exploration of the Activities of Others Predicts Social and Cognitive Deficits in Toddlers with ASD. F. Shic\*<sup>1</sup>, J. Bradshaw<sup>1</sup>, A. Klin<sup>1</sup>, B. Scassellati<sup>2</sup> and K. Chawarska<sup>1</sup>, (1)*Yale University School of Medicine*, (2)*Yale University*

- 10:00 **2** **105.002**  
Relationship Between Sensory Over-Responsivity and Anxiety in Young Children with Autism Spectrum Disorders. S. A. Green\*<sup>1</sup>, A. Ben-Sasson<sup>2</sup> and A. S. Carter<sup>3</sup>, (1)*University of California, Los Angeles*, (2)*University of Haifa*, (3)*University of Massachusetts Boston*
- 9:00 **4** **105.004**  
Effect of Context On Face Exploration in 12-Month-Old Infants Later Diagnosed with ASD. K. Chawarska\* and F. Shic, *Yale University School of Medicine*
- 10:00 **5** **105.005**  
Improving Motivation During Academics in Young Children with Autism. A. K. Singh\*<sup>1</sup>, *University of California, Santa Barbara*
- 11:00 **6** **105.006**  
Sensory Modulation and Affective Disorders in Children with Asperger's Disorder. B. Pfeiffer\*<sup>1</sup>, *Temple University*
- 9:00 **7** **105.007**  
Early Sensory Over-Responsivity and Affective Symptoms of Children with ASD and Later Family Impairment. A. Ben-Sasson\*<sup>1</sup>, F. Martinez-Pedraza<sup>2</sup> and A. S. Carter<sup>2</sup>, (1)*University of Haifa*, (2)*University of Massachusetts Boston*
- 10:00 **8** **105.008**  
Intersensory Processing and Social Orienting in Children with Autism Spectrum Disorders: Integrating Typical and Atypical Development. J. T. Todd\* and L. E. Bahrck, *Florida International University*

## Poster Sessions

### 105 Communication

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **9** **105.009**  
Autism and Music Therapy: Time, Rhythm and Music in Intersubjectivity Relationship. F. Suvini\*<sup>1</sup>, A. Narzisi, M. Innocenti, M. Venturi and U. Caselli, *AGRABAH - Associazione Genitori per l'Autismo*
- 10:00 **10** **105.010**  
Early Red Flags for Autism Spectrum Disorders in Toddlers in the Home Environment. L. Book\*<sup>1</sup>, D. McCoy and A. M. Wetherby, *Florida State University*
- 11:00 **11** **105.011**  
Factor Analysis of the Social-Communication Items From the PIA-CV. J. H. Foss-Feig\*<sup>1</sup>, A. S. Nahmias<sup>1</sup>, P. J. Yoder<sup>1</sup>, A. S. Carter<sup>2</sup>, D. S. Messinger<sup>3</sup> and W. L. Stone<sup>4</sup>, (1)*Vanderbilt University*, (2)*University of Massachusetts Boston*, (3)*University of Miami*, (4)*Vanderbilt Kennedy Center*
- 9:00 **12** **105.012**  
Identifying Relationships Between Parental Stress and Joint Attention Development in Infants at Risk for Autism. J. Johnson\*<sup>1</sup>, E. A. Koterba, M. V. Parladé, N. B. Leezenbaum and J. M. Iverson, *University of Pittsburgh*
- 10:00 **13** **105.013**  
Joint Attention and Play of Nonverbal Children with Autism. K. A. S. Goods\*<sup>1</sup>, E. H. Ishijima<sup>1</sup>, Y. C. Chang<sup>2</sup> and C. Kasari<sup>1</sup>, (1)*University of California, Los Angeles*, (2)*UCLA Semel Institute for Neuroscience & Human Behavior*
- 11:00 **14** **105.014**  
Joint Attention Interventions for Young Children with Autism Spectrum Disorders: Caregiver and Child Actions and Transactions. A. K. Vo\*<sup>1</sup>, M. A. Conroy<sup>1</sup> and H. Schertz<sup>2</sup>, (1)*Virginia Commonwealth University*, (2)*Indiana University*



- 9:00 **15 105.015**  
Relationships Among Joint Attention, Imitation, Play and Language in Young Children with Autism Spectrum Disorders. C. C. Wu\*<sup>1</sup> and C. H. Chiang<sup>2</sup>, (1)*National Chung Cheng University*, (2)*National Chengchi University*
- 10:00 **16 105.016**  
Sounds of Melody – Acoustic Features of Speech in Autism. M. Sharda\* and N. Singh, *National Brain Research Centre*
- 11:00 **17 105.017**  
The Relationship Between Gesture Use and Adaptive Functioning in Autism. K. Stamper\*, R. Bernier and J. Gerdtts, *University of Washington*
- 9:00 **18 105.018**  
Utility of the Screening Tool for Autism in Two-Year Olds (STAT) as a Continuous Measure of Nonverbal Social-Communicative Behavior. E. H. Catania\*<sup>1</sup>, A. S. Nahmias<sup>1</sup>, J. H. Foss-Feig<sup>1</sup>, A. S. Carter<sup>2</sup>, D. S. Messinger<sup>3</sup> and W. L. Stone<sup>4</sup>, (1)*Vanderbilt University*, (2)*University of Massachusetts Boston*, (3)*University of Miami*, (4)*Vanderbilt Kennedy Center*
- 10:00 **19 105.019**  
Auditory Preferences in Infants at Risk for ASD. R. Paul\*, K. Chawarska, E. Schoen and A. Klin, *Yale University School of Medicine*
- 11:00 **20 105.020**  
Enhancing Spontaneous Speech Production in a Previously Nonverbal Adult with Autism. E. P. Loughlin\*, E. J. Pickett, J. Thorne and B. Gordon, *Johns Hopkins Medical Institutions*
- 9:00 **21 105.021**  
Increased Pitch Variability in Young Autistic Children. Y. S. Bonneht\*<sup>1</sup>, Y. Levanon<sup>2</sup> and O. Dean-Pardo<sup>3</sup>, (1)*University of Haifa*, (2)*Netanya Academic College*, (3)*Child Development Center*
- 10:00 **22 105.022**  
Instant Messaging as An Alternate Form of Communication for Adolescents with Asperger's Syndrome or High Functioning Autism. S. Carr\* and B. Myers, *Virginia Commonwealth University*
- 11:00 **23 105.023**  
Interactive Visuo-Motor Therapy as a Supplementary Social Communication Treatment Model for Children with Autistic Spectrum Disorders. P. Leigh\*, *Edinboro University*
- 9:00 **24 105.024**  
Joint Attention and Language Development in Young Children with Autism. S. Tek\*, G. Jaffery, D. A. Fein and L. Naigles, *University of Connecticut*
- 10:00 **25 105.025**  
Maternal and Child Gesture Use and Language Outcomes in Infants at-Risk for Autism. M. Thompson\* and H. Tager-Flusberg, *Boston University*
- 11:00 **26 105.026**  
Stability and Variation in the Social Communication and Shared Attention Behaviours of Preschoolers with Autism Across Two Naturalistic Observation Assessments. L. Brown\*<sup>1</sup>, K. Hudry<sup>2</sup>, S. Clifford<sup>3</sup>, K. Leadbitter<sup>4</sup>, T. Charman<sup>5</sup> and ... PACT Consortium<sup>4</sup>, (1)*Wessex Neurological Centre*, (2)*Department of Psychology and Human Development, Institute of Education*, (3)*King's College - University of London*, (4)*University of Manchester*, (5)*Institute of Education, University of London*
- 9:00 **27 105.027**  
Validation of the Autism Spectrum Screening Scale (ASSQ), Mandarin Chinese Version. Y. Guo<sup>1</sup>, Y. Tang<sup>2</sup>, C. E. Rice\*<sup>3</sup>, L. C. Lee<sup>4</sup>, Y. F. Wang<sup>1</sup> and J. Cubells<sup>2</sup>, (1)*Institute of Mental Health, Peking University Health Science Center*, (2)*Emory University*, (3)*National Center on Birth Defects and Developmental Disabilities*, (4)*Johns Hopkins Bloomberg School of Public Health*
- 10:00 **28 105.028**  
A Generalisability Study to Estimate Optimal Design When Using the Classroom Observation Schedule to Measure Intentional Communication (COSMIC). G. Pasco\*<sup>1</sup>, R. K. Gordon<sup>2</sup>, P. Howlin<sup>3</sup> and T. Charman<sup>4</sup>, (1)*University of Cambridge*, (2)*Institute of Psychiatry*, (3)*Institute of Psychiatry, King's College London*, (4)*Institute of Education, University of London*
- 11:00 **29 105.029**  
Automatic Identification of Children at-Risk for ASD Using Audio Recording. D. Xu\*<sup>1</sup>, J. A. Richards<sup>1</sup>, J. Gilkerson<sup>1</sup>, S. F. Warren<sup>2</sup> and D. K. Oller<sup>3</sup>, (1)*LENA Foundation*, (2)*University of Kansas*, (3)*The University of Memphis*
- 9:00 **30 105.030**  
Communicative Repair Skills in Boys with Autism and Fragile X Syndrome. R. L. Cardwell\*<sup>1</sup>, G. E. Martin<sup>2</sup> and M. Losh<sup>2</sup>, (1)*UNC Chapel Hill*, (2)*University of North Carolina at Chapel Hill*
- 10:00 **31 105.031**  
Embarking On the Journey through Pediatric Transplantation with An Autistic Child. M. A. Peralta\* and A. M. L. Lefebvre, *The Hospital for Sick Children*
- 11:00 **32 105.032**  
Factors Influencing Knowledge about Childhood Autism Among Final Year Medical, Nursing and Psychology Students in Enugu, Nigeria. M. N. Igwe\*<sup>1</sup>, M. O. Bakare<sup>2</sup>, G. M. Onyeama<sup>1</sup> and K. O. Okonkwo<sup>1</sup>, (1)*Department of Psychological Medicine, University of Nigeria Teaching Hospital Enugu, Nigeria*, (2)*Federal Neuro-Psychiatric Hospital, New Haven, Enugu, Enugu State, Nigeria*
- 9:00 **33 105.033**  
Maternal Language Directed to CHILDREN with AUTISM Spectrum Disorders, DOWN Syndrome and Typical DEVELOPMENT. S. De Falco\*<sup>1</sup>, G. Esposito<sup>1</sup>, M. Zaninelli<sup>1</sup>, M. H. Bornstein<sup>2</sup> and P. Venuti<sup>1</sup>, (1)*University of Trento*, (2)*National Institute of Child Health and Human Development, National Institutes of Health, Department of Health and Human Services*
- 10:00 **34 105.034**  
Request for Social Interaction in Prelinguistic Milieu Teaching for Young Children with Autism. H. Kinugasa\* and S. Sonoyama, *University of Tsukuba*
- 11:00 **35 105.035**  
The Experiences of Latina Mothers During the Diagnosis of ASD in Their Children. S. K. Dickson\* and E. Giarelli, *University of Pennsylvania*
- 9:00 **36 105.036**  
The Use of a Digital Language Processor to Examine the Effectiveness of a Parent-Training Aimed at Improving the Language Learning Environments of Children with Autism. S. Patterson\* and V. Smith, *University of Alberta*

## Poster Sessions

### 105 Imitation

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **37 105.037**  
The Influence of Goals On Movement Kinematics and Eye Movements During Imitation in Autism. K. S. Wild\*, E. Poliakoff and E. Gowen, *University of Manchester*
- 10:00 **38 105.038**  
Differences in Imitative Synchronicity in Children with High Functioning Autism (HFA) and Children without Autism Spectrum Disorders (ASD). P. Rao\*, A. Faherty and R. Landa, *Kennedy Krieger Institute*
- 11:00 **39 105.039**  
The Impact of Familiarity On Imitation of Hand Gestures and Face Expressions in Autism Spectrum Disorders. B. Aaronson\* and R. Bernier, *University of Washington*
- 9:00 **40 105.040**  
Prevalence of Early Imitation Problems and Its Risk Factor for Autism. M. Vanvuchelen\*, H. Roeyers<sup>2</sup> and W. De Weerd<sup>3</sup>, (1)*Katholieke Universiteit Leuven - PHL University College - Vrije Universiteit Brussel, Belgium*, (2)*Ghent University*, (3)*Katholieke Universiteit Leuven*
- 10:00 **41 105.041**  
Intact Imitation of Emotional Facial Actions in Autism Spectrum Conditions. C. Press\*<sup>1</sup>, D. Richardson<sup>1</sup> and G. Bird<sup>2</sup>, (1)*University College London*, (2)*Birkbeck College, University of London*
- 11:00 **42 105.042**  
Social Responses of Children with Autism to Attention and Imitation. C. McCormick\*<sup>1</sup>, G. S. Young<sup>2</sup>, A. Herrera<sup>3</sup>, T. Oden<sup>2</sup> and S. J. Rogers<sup>2</sup>, (1)*M.I.N.D. Institute, University of California Davis*, (2)*M.I.N.D. Institute, University of California at Davis*, (3)*University of Minnesota*
- 9:00 **43 105.043**  
Spontaneous Imitation and Social Synchrony in 24-Month-Old Toddlers with Autism Spectrum Disorders. T. V. Barker\* and R. Landa, *Kennedy Krieger Institute*
- 10:00 **44 105.044**  
Imitation Abilities in Children with Autism Spectrum Disorders Correlate with Autism Severity but Not with Motor Skills. I. Tzaig<sup>1</sup>, E. Ben Itzhak\*<sup>2</sup> and D. A. Zachor<sup>3</sup>, (1)*Bar Ilan University*, (2)*Ariel University Center of Samaria*, (3)*Tel Aviv University / Assaf Harofeh Medical Center*

## Poster Sessions

### 105 Language

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **45 105.045**  
The Efficacy of the Speech and Language Therapy for Autism Spectrum Disorders. A. C. Tamanaha\*, J. Perissinoto and B. M. Chiari, *Federal University of São Paulo*
- 10:00 **46 105.046**  
Autistic Traits and Lexical Effects On Speech Perception in Children. M. Ota\*<sup>1</sup>, C. Dickie<sup>1</sup>, C. Hien<sup>2</sup> and M. E. Stewart<sup>2</sup>, (1)*University of Edinburgh*, (2)*Heriot-Watt University*
- 11:00 **47 105.047**  
Adolescents with ASD and TD Show Equivalent Patterns of Gesture Use During Lexical Retrieval. A. B. de Marchena\* and I. M. Eigsti, *University of Connecticut*

- 9:00 **48 105.048**  
Using the Preschool Language Scale-IV (PLS-IV) to Characterize Language in Young Children with ASD. J. Volden\*<sup>1</sup>, I. M. Smith<sup>2</sup>, P. Szatmari<sup>3</sup>, S. E. Bryson<sup>4</sup>, E. Fombonne<sup>5</sup>, P. Mirenda<sup>6</sup>, W. Roberts<sup>7</sup>, T. Vaillancourt<sup>8</sup>, C. Waddell<sup>9</sup>, L. Zwaigenbaum<sup>1</sup>, S. Georgiades<sup>3</sup> and A. P. Thompson<sup>3</sup>, (1)*University of Alberta*, (2)*Dalhousie University & IWK Health Centre*, (3)*McMaster University*, (4)*Dalhousie University/IWK Health Centre*, (5)*McGill University*, (6)*University of British Columbia*, (7)*University of Toronto*, (8)*University of Ottawa*, (9)*Simon Fraser University*
- 10:00 **49 105.049**  
Predictors of Pragmatic Language Use in Toddlers with Autism Spectrum Disorders. L. R. Edelson\* and H. Tager-Flusberg, *Boston University*
- 11:00 **50 105.050**  
Automatic Detection of Idiosyncratic Word Use in Autism Spectrum Disorders. E. T. Prud'hommeaux\*, J. van Santen, L. M. Black and B. Roark, *Oregon Health & Science University*
- 9:00 **51 105.051**  
Predicting Early Language Gains in Young Children On the Autism Spectrum. S. Ellis-Weismer\*<sup>1</sup>, M. A. Gernsbacher<sup>1</sup>, C. Karasinski<sup>1</sup>, E. R. Eernisse<sup>1</sup>, C. Erickson<sup>1</sup>, H. Sindberg<sup>1</sup>, C. E. Ray-Subramanian<sup>2</sup>, N. Huai<sup>2</sup> and S. Stronach<sup>1</sup>, (1)*University of Wisconsin-Madison*, (2)*Waisman Center, University of Wisconsin-Madison*
- 10:00 **52 105.052**  
Advancing the Measurement of Receptive Language in Nonverbal Individuals with Autism. L. V. Van Droof\*, K. Ledoux, E. J. Pickett, E. Buz, N. M. Billings and B. Gordon, *Johns Hopkins Medical Institutions*
- 11:00 **53 105.053**  
Comparison of Children with Autism Spectrum Disorders and Developmental Language Disorders On Measures of Language Impairment. L. M. Black\*, J. van Santen, M. K. August, B. Langhorst and R. Sanger-Hahn, *Oregon Health & Science University*
- 9:00 **54 105.054**  
Parents Use of Language That Follows the Attention of Toddlers with ASD. J. L. S. Bartley\*, L. B. Swineford and A. M. Wetherby, *Florida State University*
- 10:00 **55 105.055**  
Perceptual Dialect Classification by Adults with High-Functioning Autism. K. L. Rohrbeck\*, C. G. Clopper and L. Wagner, *Ohio State University*
- 11:00 **56 105.056**  
Influence of Theory of Mind On the Written Compositions of Adults with High-Functioning Autism Spectrum Disorders. H. M. Brown\* and P. D. Klein, *The University of Western Ontario*
- 9:00 **57 105.057**  
Statistical Word Learning in Children with ASD. J. Mayo\* and I. M. Eigsti, *University of Connecticut*
- 10:00 **58 105.058**  
Stability of Language Improvements One Year After the End of ABA Intervention in ASD Children. L. Ferretti\*<sup>1</sup>, G. Doneddu<sup>2</sup>, G. Saba<sup>3</sup>, S. Marras<sup>3</sup>, P. M. Peruzzi<sup>1</sup> and R. Fadda<sup>4</sup>, (1)*A.O. Brotzu*, (2)*Azienda Ospedaliera Brotzu*, (3)*A.O.B. (Azienda Ospedaliera Brotzu)*, (4)*University of Sheffield*
- 11:00 **59 105.059**  
Indicators of Linguistic Processing Constraints in the Narratives of Individuals with High-Functioning Autism. K. M. Belardi\* and D. L. Williams, *Duquesne University*

- 9:00 **60 105.060**  
Receptive and Expressive Language in Autism. A. M. Girardot\*<sup>1</sup>, S. De Martino<sup>2</sup>, C. Chatel<sup>2</sup>, D. Da Fonseca<sup>2</sup>, V. Rey<sup>2</sup> and F. Poinso<sup>2</sup>, (1)*Hopital sainte marguerite*, (2)*Hopital Sainte Marguerite*
- 10:00 **61 105.061**  
Maternal Noun Phrase Complexity and Child Language in Autism. A. T. Meyer\*, L. R. Edelson and H. Tager-Flusberg, *Boston University*
- 11:00 **62 105.062**  
Prosody in School-Age Children with ASD. E. Schoen\*<sup>1</sup>, R. Paul<sup>1</sup>, L. Berkovits<sup>2</sup> and F. R. Volkmar<sup>3</sup>, (1)*Yale University School of Medicine*, (2)*Yale Child Study Center*, (3)*Yale School of Medicine*
- 9:00 **63 105.063**  
Differences in Receptive and Expressive Language Abilities in Children with ASD. M. K. McCalla\*, E. H. Sheridan, M. W. Gower and E. M. Griffith, *University of Alabama at Birmingham*
- 10:00 **64 105.064**  
Consistency Among Language Assessment Scores in School-Aged High-Functioning Children with Autism Spectrum Disorders. J. Lomibao\*<sup>1</sup>, N. Coggins<sup>1</sup>, M. Galdston<sup>1</sup>, R. Travolta<sup>1</sup>, M. Szkolka<sup>1</sup>, R. Luyster<sup>2</sup>, A. Duda<sup>1</sup> and S. L. Santangelo<sup>1</sup>, (1)*Massachusetts General Hospital*, (2)*Children's Hospital Boston/Harvard Medical School*
- 11:00 **65 105.065**  
Exploring the Use of the Language Environment Analysis (LENA) System in Preschool Classrooms of Children with Autism Spectrum Disorders. J. Dykstra\*<sup>1</sup>, M. Sabatos-DeVito<sup>1</sup>, D. Irvin<sup>2</sup>, B. Boyd<sup>1</sup>, K. Hume<sup>3</sup> and S. Odom<sup>4</sup>, (1)*University of North Carolina at Chapel Hill*, (2)*UNC-Chapel Hill*, (3)*Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill*, (4)*University of North Carolina*
- 9:00 **66 105.066**  
Achievements and Correlations Among Emergent Literacy Skills in Children with Autism Spectrum Disorders. E. Lanter\*<sup>1</sup>, L. Watson<sup>2</sup>, D. Freeman<sup>1</sup>, D. Millar<sup>1</sup>, A. Lorenzi<sup>1</sup> and A. Morgan<sup>1</sup>, (1)*Radford University*, (2)*University of North Carolina at Chapel Hill*
- 10:00 **67 105.067**  
Do Early Language Milestones Predict Later Language Abilities and Adaptive Skills in Children with High Functioning Autism Spectrum Disorders?. K. K. Powell\*<sup>1</sup>, G. L. Wallace<sup>2</sup>, C. Anselmo<sup>1</sup>, D. O. Black<sup>2</sup>, A. M. Bollich<sup>1</sup>, R. Roberson<sup>2</sup> and L. Kenworthy<sup>1</sup>, (1)*Children's National Medical Center*, (2)*National Institute of Mental Health, National Institutes of Health*
- 11:00 **68 105.068**  
Ostensive Cueing Enhances Retention of Fast Mapped Words in Typically Developing 24-Month-Olds but Not Those at High-Risk for Autism Spectrum Disorders (ASDs). R. Bedford\*<sup>1</sup>, T. Gliga<sup>2</sup>, K. Frame<sup>3</sup>, K. Hudry<sup>1</sup>, T. Charman<sup>3</sup>, M. H. Johnson<sup>2</sup> and .. The BASIS Team\*<sup>4</sup>, (1)*Department of Psychology and Human Development, Institute of Education*, (2)*Birkbeck, University of London*, (3)*Institute of Education, University of London*, (4)*BASIS*
- 9:00 **69 105.069**  
Empathic Response Predicts Language Development in Infants at Risk for Autism and Low-Risk Comparison Infants. T. Hutman\*<sup>1</sup>, A. D. DeLaurentis<sup>1</sup>, A. Rozga<sup>2</sup>, M. Sigman<sup>1</sup> and M. Dapretto<sup>1</sup>, (1)*University of California, Los Angeles*, (2)*Georgia State University*
- 10:00 **70 105.070**  
Repeated Prospective Assessments of Communication Abilities in Infants at High Risk for Autism Spectrum Disorders. M. V. Paradé\*, J. Johnson and J. M. Iverson, *University of Pittsburgh*
- 11:00 **71 105.071**  
Do Children with High-Functioning Autism Appropriately Mark Contrastive Stress in Speech to a Partner?. A. Nadig\* and H. Shaw, *McGill University*
- 9:00 **72 105.072**  
Maternal Input Correlates with Wh-Question Comprehension in Young Children with Autism. A. Goodwin\*, J. Piotroski, G. Jaffery, D. A. Fein and L. Naigles, *University of Connecticut*
- 10:00 **73 105.073**  
Word Learning in Preschoolers with ASD: Is Word Learning Easier with a Computer Than with a Person?. H. Noble\*<sup>1</sup>, S. McCurry<sup>1</sup>, L. G. Klinger<sup>1</sup>, M. R. Klinger<sup>1</sup>, J. Scofield<sup>1</sup> and A. W. Duncan<sup>2</sup>, (1)*University of Alabama*, (2)*Cincinnati Children's Hospital Medical Center*
- 11:00 **74 105.074**  
Using a Developmental Framework to Evaluate Expressive Language Abilities in Children with Autism Spectrum Disorders (ASD). C. Colombi\*<sup>1</sup>, K. Lopez<sup>2</sup> and C. Lord<sup>1</sup>, (1)*University of Michigan*, (2)*University of Michigan Autism & Communication Disorders Center (UMACC)*

## Poster Sessions

### 105 Play

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **75 105.075**  
Mother-Child Interaction, Symbolic Play, and Productive Speech in Preschool Children with Autism. E. Dromi\*<sup>1</sup>, L. Cooper<sup>1</sup> and D. A. Zachor<sup>2</sup>, (1)*Tel Aviv University*, (2)*Tel Aviv University / Assaf Harofeh Medical Center*
- 10:00 **76 105.076**  
Play Behaviors in Infants at High-Risk for Developing Autism. J. Gibson\*<sup>1</sup>, A. Sabatino<sup>1</sup>, M. Sabatos-DeVito<sup>1</sup>, J. T. Elison<sup>1</sup> and J. Piven<sup>2</sup>, (1)*University of North Carolina at Chapel Hill*, (2)*University of North Carolina*
- 11:00 **77 105.077**  
Validation of a Measure of Early Object Knowledge in Toddlers with Early Autism Symptomatology. A. H. Brown\*<sup>1</sup>, A. S. Nahmias<sup>1</sup>, D. S. Messinger<sup>2</sup>, A. S. Carter<sup>3</sup>, W. L. Stone<sup>4</sup> and P. Yoder<sup>1</sup>, (1)*Vanderbilt University*, (2)*University of Miami*, (3)*University of Massachusetts Boston*, (4)*Vanderbilt Kennedy Center*
- 9:00 **78 105.078**  
Associations Between Elevated Cortisol, Age and Social Engagement During Play in Children with Autism. C. Schupp\*<sup>1</sup>, D. Simon<sup>1</sup>, N. Ryan<sup>1</sup>, S. Mendoza<sup>2</sup> and B. Corbett<sup>1</sup>, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*University of California, Davis*
- 10:00 **79 105.079**  
Improving Play Skills and Decreasing Challenging Behavior by Reducing the Reinforcing Value of Stereotypy in Young Children with ASD. R. Lang\*, *University of California, Santa Barbara*
- 11:00 **80 105.080**  
Play Trajectories in Infant Siblings of Children with Autism. L. Christensen\*, M. Sigman and T. Hutman, *University of California, Los Angeles*
- 9:00 **81 105.081**  
High-Atypicality Infant Siblings of Children with Autism: A Prospective Study of Mother-Infant Interaction. M. W. Wan\*<sup>1</sup>, J. Green<sup>1</sup>, M. Elsabbagh<sup>2</sup>, M. H. Johnson<sup>2</sup> and .. The BASIS Team\*<sup>3</sup>, (1)*The University of Manchester*, (2)*Birkbeck, University of London*, (3)*BASIS*
- 10:00 **82 105.082**  
Symbolic Acts in Children with Autism Spectrum Disorder: a Case of Triune Representation. C. H. Chiang\*<sup>1</sup> and H. F. Lu<sup>2</sup>, (1)*National Chengchi University*, (2)*Gang Shan Armed Force Hospital*

**Poster Sessions**

**105 Sensory Systems**

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **83 105.083**  
A Pilot Randomized Control Trial of a Parent-Delivered Massage Intervention for Pre-School Children with Autism: The Qigong Sensory Training (QST) Home Program. L. M. Silva, M. Schallock and K. R. Gabrielsen\*, *Western Oregon University*
- 10:00 **84 105.084**  
Autistic Traits and Auditory Perceptual Discrimination. M. E. Stewart\*<sup>1</sup>, M. Grube<sup>2</sup> and T. D. Griffiths<sup>2</sup>, (1)*Heriot-Watt University*, (2)*Newcastle University*
- 11:00 **85 105.085**  
Altered Face Perception in Children and Adults with ASD. J. Martineau\*, N. Hernandez, L. Roche, L. Hiebel, A. Metzger and C. Barthelemy, *INSERM U 930*
- 9:00 **86 105.086**  
Music Perception and Musical Behaviors in Children and Adolescents with ASD. E. M. Quintin\*<sup>1</sup> and A. K. Bhatara<sup>2</sup>, (1)*Université du Québec à Montréal & Autism Research Training Program*, (2)*University of California, Los Angeles*
- 10:00 **87 105.087**  
Difference in Auditory Evoked Potentials in Children with Autism Spectrum Disorder Using Magnetoencephalography. K. Khatibi\*<sup>1</sup>, T. Kenet<sup>2</sup>, M. Arroyo<sup>1</sup>, A. M. Findlay<sup>1</sup>, S. Honma<sup>1</sup>, B. Siegel<sup>3</sup>, S. Nagarajan<sup>1</sup> and E. Marco<sup>3</sup>, (1)*University of California, San Francisco*, (2)*Massachusetts General Hospital*, (3)*UC San Francisco*
- 11:00 **88 105.088**  
A Cross Cultural Comparison of Sensory Behaviors in Children with ASD From the USA and Israel. K. Caron<sup>1</sup>, R. Schaaf\*<sup>2</sup>, T. Benevides<sup>2</sup> and E. Gal<sup>3</sup>, (1)*Scarborough School District*, (2)*Thomas Jefferson University*, (3)*University of Haifa*
- 9:00 **89 105.089**  
Can Problem Eating Behaviors in Autism Be Explained by Sensory Subtype. A. E. Lane\* and M. Geraghty, *The Ohio State University*
- 10:00 **90 105.090**  
Sensory Processing in Infants with and without Risk for Autism During the First Year of Life. K. Harpster\*, V. Sloutsky and A. E. Lane, *The Ohio State University*
- 11:00 **91 105.091**  
A Randomized Trial of the Effectiveness of Occupational Therapy to Address Sensory Behaviors in Children with Autism: Phase 1 - Feasibility. R. Schaaf\*<sup>1</sup>, T. Benevides<sup>1</sup>, D. Kelly<sup>2</sup>, J. Hunt<sup>2</sup>, E. van Hooydonk<sup>2</sup>, F. Patti<sup>2</sup>, Z. Mailloux<sup>3</sup> and E. Blanche<sup>4</sup>, (1)*Thomas Jefferson University*, (2)*Children's Specialized Hospital*, (3)*Pediatric Therapy Network*, (4)*University of Southern California*
- 9:00 **92 105.092**  
3D-Multiple Object Tracking in Autism. E. M. Hahler\*<sup>1</sup>, D. Tinjust<sup>1</sup>, L. Mottron<sup>2</sup> and J. Faubert<sup>1</sup>, (1)*Visual Psychophysics and Perception Laboratory, Université de Montréal*, (2)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*
- 10:00 **93 105.093**  
Can Common Genetic Factors Account for the Association Between Autism Symptoms and Sensory Abnormalities?. S. Lietz\*, F. Rijdsdijk, E. Colvert, E. Woodhouse, N. Gillan, V. Hallett, P. Bolton and F. Happé, *Institute of Psychiatry, King's College London*
- 11:00 **94 105.094**  
Sensory Responses in Optimal Outcome Children with a History of Autism Spectrum Disorders. A. Orinstein\*<sup>1</sup>, K. E. Tyson<sup>1</sup>, E. Troyb<sup>1</sup>, M. A. Rosenthal<sup>1</sup>, M. Helt<sup>1</sup>, I. M. Eigsti<sup>1</sup>, L. Naigles<sup>1</sup>, E. A. Kelley<sup>2</sup>, M. L. Barton<sup>1</sup>, M. C. Stevens<sup>3</sup>, R. T. Schultz<sup>4</sup> and D. A. Fein<sup>1</sup>, (1)*University of Connecticut*, (2)*Queen's University*, (3)*Institute of Living, Hartford Hospital / Yale University*, (4)*Children's Hospital of Philadelphia and the University of Pennsylvania*
- 9:00 **95 105.095**  
Sensory Sensitivities in Autism Spectrum Disorders: A Qualitative Analysis. A. E. Robertson\* and D. R. Simmons, *University of Glasgow*
- 10:00 **96 105.096**  
The Everyday Routines of Families of Children with Autism: Examining the Impact of Sensory Processing Difficulties in Children with Autism On the Family. T. Benevides\*<sup>1</sup>, R. Schaaf<sup>1</sup>, S. Toth-Cohen<sup>1</sup>, S. L. Johnson<sup>2</sup> and G. Madrid<sup>3</sup>, (1)*Thomas Jefferson University*, (2)*Walter Reed Army Medical Center*, (3)*Therapy Services of Delaware*
- 11:00 **97 105.097**  
A Preference for Geometric Patterns Early in Life as a Risk Factor for Autism. K. Pierce\*<sup>1</sup>, D. Conant<sup>2</sup>, R. Hazin<sup>1</sup>, J. Desmond<sup>1</sup> and R. Stoner<sup>1</sup>, (1)*University of California, San Diego*, (2)*UCSD Autism Center of Excellence, University of California San Diego*
- 9:00 **98 105.098**  
The Systemizing Trait of Autism Is Associated with a Shift From Reliance On Global to Local Contextual Cues. C. A. Williamson\* and P. Dasonville, *University of Oregon*
- 10:00 **99 105.099**  
Olfactory Functioning in the Autistic Spectrum. S. Galle\*<sup>1</sup>, J. Frasnelli<sup>2</sup>, J. A. Boyle<sup>3</sup>, V. Courchesne<sup>4</sup> and L. Mottron<sup>1</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Centre de Recherche en Neuropsychologie et Cognition (CERNEC) de l'Université de Montréal*, (3)*Montreal Neurological Institute, McGill University*
- 11:00 **100 105.100**  
2-Year-Old Toddlers with ASD Are More Successful at Visual Search Than Typically Developing Toddlers. C. K. Krapar, Z. Kaldy, E. Blaser, A. S. Carter\* and U. Eneh, *University of Massachusetts Boston*
- 9:00 **101 105.101**  
Reliability and Validity of a Sensory Seeking Scale in the Sensory Processing Assessment. L. M. Little\*<sup>1</sup>, G. T. Baranek<sup>1</sup>, D. Jackson<sup>2</sup>, C. L. Wakeford<sup>1</sup> and M. Sabatos-DeVito<sup>1</sup>, (1)*University of North Carolina at Chapel Hill*, (2)*Walden University*
- 10:00 **102 105.102**  
The Influence of Background Noise On the Intermodal Perception of Speech in Children with Autism Spectrum Disorders: An Eye-Tracking Task. L. N. Hancock\*, J. M. Bebko, C. A. McMorris and M. Slusarczyk, *York University*
- 11:00 **103 105.103**  
The Sensory Profile: An Investigation of Its Relationship with Experimentally Measured Sensory Thresholds in Adults with Autism Spectrum Conditions. T. Tavassoli\*<sup>1</sup>, K. Latham<sup>2</sup> and S. Baron-Cohen<sup>1</sup>, (1)*University of Cambridge*, (2)*Anglia Ruskin University*
- 9:00 **104 105.104**  
Sensitivity to Social Touch in School-Age Children with Autism Spectrum Disorders. M. J. Ackerman\*<sup>1</sup>, G. Ramsay<sup>2</sup>, A. Klin<sup>1</sup> and W. Jones<sup>2</sup>, (1)*Yale University School of Medicine*, (2)*Yale School of Medicine*

- 10:00 **105 105.105**  
High-Risk Infants' Behavioral and Neural Responses to Faces: An Eye-Tracking and Visual ERP Study. R. Luyster\*<sup>1</sup>, J. B. Wagner<sup>1</sup>, T. Augenstein<sup>2</sup>, L. M. Kasparian<sup>3</sup>, H. Tager-Flusberg<sup>4</sup> and C. A. Nelson<sup>2</sup>, (1)Children's Hospital Boston/Harvard Medical School, (2)Children's Hospital Boston, (3)Boston University School of Medicine, (4)Boston University
- 11:00 **106 105.106**  
Visual Search and the Broader Autism Phenotype: A Study of the Infant Siblings of Children with Autism and Typically Developing Infants. E. Goldknopf\*, K. Gillespie-Lynch, T. Hutman, M. Sigman and S. P. Johnson, *University of California, Los Angeles*
- Poster Sessions**  
**105 Social Function**  
8:00 AM - 1:00 PM - Franklin Hall B Level 4
- 9:00 **107 105.107**  
Identifying Social and Non-Social Change in Natural Scenes: Comparisons Among Adults, and Children with and without Autism. B. R. Sheth\*<sup>1</sup>, J. Liu<sup>1</sup>, O. Olagbaju<sup>1</sup>, L. Varghese<sup>1</sup>, R. Mansour<sup>2</sup>, S. L. Reddoch<sup>3</sup>, D. A. Pearson<sup>2</sup> and K. A. Loveland<sup>2</sup>, (1)University of Houston, (2)University of Texas Medical School at Houston, (3)Univ. of Texas Med. Sch. at Houston
- 10:00 **108 105.108**  
Development of the School-Age Autism Screening Inventory for High-Functioning Students. C. T. Wormeli\*<sup>1</sup>, G. M. Robinson<sup>1</sup> and W. T. McKee<sup>2</sup>, (1)Provincial Outreach Program for Autism and Related Disorders, (2)University of British Columbia
- 11:00 **109 105.109**  
Autonomic Responsiveness to Images with Social-Affective Content in Individuals with Autism. O. Olu-Lafe\*<sup>1</sup>, M. C. André<sup>2</sup>, D. Plesa-Skwerer<sup>2</sup> and H. Tager-Flusberg<sup>1</sup>, (1)Boston University, (2)Boston University School of Medicine
- 9:00 **110 105.110**  
Activity Participation Patterns of Children with Asperger Syndrome: Implications for Health. R. L. Taylor\*<sup>1</sup>, T. S. Olds<sup>1</sup>, K. Boshoff<sup>1</sup> and A. E. Lane<sup>2</sup>, (1)University of South Australia, (2)The Ohio State University
- 10:00 **111 105.111**  
Affective Internalizing Problems Related to Age in Children and Adolescents with High Functioning Autism. J. F. Strang\*<sup>1</sup>, L. Kenworthy<sup>1</sup>, P. Daniolos<sup>1</sup>, L. K. Case<sup>2</sup>, M. Wills<sup>1</sup> and G. L. Wallace<sup>3</sup>, (1)Children's National Medical Center, (2)University of California, San Diego, (3)National Institute of Mental Health, National Institutes of Health
- 11:00 **112 105.112**  
Children Who Fail the M-CHAT but Do Not Have ASD: A Comparison of Younger Siblings with Pediatric and Early Intervention Populations. K. Carr\*<sup>1</sup>, J. Pandey<sup>2</sup>, A. Verbalis<sup>1</sup>, S. Hodgson<sup>1</sup>, M. L. Barton<sup>1</sup>, J. Green<sup>1</sup> and D. A. Fein<sup>1</sup>, (1)University of Connecticut, (2)Children's Hospital of Philadelphia
- 9:00 **113 105.113**  
Early Childhood Predictors of Social Functioning in Adults with Autism Spectrum Disorder. L. Gomez\*<sup>1</sup>, L. Sepeta<sup>1</sup>, K. Gillespie-Lynch<sup>1</sup>, L. Sterling<sup>2</sup>, T. Hutman<sup>1</sup> and M. Sigman<sup>1</sup>, (1)University of California, Los Angeles, (2)University of Washington
- 10:00 **114 105.114**  
Autistic Traits in ADHD: Is There a Case for a Co-Morbid Subgroup?. R. Grzadzinski\*<sup>1</sup>, A. Di Martino<sup>1</sup>, M. Mairena<sup>1</sup>, E. Brady<sup>1</sup>, M. O'Neale<sup>1</sup>, E. Petkova<sup>1</sup>, C. Lord<sup>2</sup> and F. X. Castellanos<sup>1</sup>, (1)NYU Child Study Center, (2)University of Michigan
- 11:00 **115 105.115**  
Do Specific Difficulties in Social Development Relate to Generalized Social Challenges in Young Children with ASD?. L. O'Connell\*, E. A. Kelley, K. Dunfield and V. Kuhlmeier, *Queen's University*
- 9:00 **116 105.116**  
Construct and Criterion-Referenced Validity of the Pervasive Developmental Disorder(PDD) ASJ Rating Scale(PARS). I. Tani\*<sup>1</sup> and M. Tsujii<sup>2</sup>, (1)Hamamatsu University School of medicine, (2)Chukyo University
- 10:00 **117 105.117**  
Arousal and Anxiety in Children with Autism Spectrum Disorders. T. P. Levine\*<sup>1</sup>, S. J. Sheinkopf<sup>2</sup>, B. M. Lester<sup>2</sup>, M. Pescosolido<sup>3</sup>, A. Rodino<sup>3</sup> and G. Elia<sup>4</sup>, (1)Warren Alpert Medical School of Brown University, (2)The Warren Alpert Medical School of Brown University, (3)Women and Infants' Hospital, (4)Boston College
- 11:00 **118 105.118**  
Adaptive Behavior in Young Children with High and Low Functional Autism Spectrum Disorders. C. L. Chu\*<sup>1</sup>, Y. S. Huang<sup>1</sup> and C. H. Chiang<sup>2</sup>, (1)National Chung Cheng University, (2)National Chengchi University
- 10:00 **120 105.120**  
Changes in the Social Networks of Elementary School-Aged Children with and without Autism. J. Locke\*, C. Kasari, M. Kretzmann and J. Bang, *University of California, Los Angeles*
- 11:00 **121 105.121**  
Ecological Features of Preschool Environments That Support the Social Engagement of Children with Autism Spectrum Disorder. S. S. Reszka<sup>1</sup>, S. Odom\*<sup>2</sup> and K. Hume<sup>3</sup>, (1)University of North Carolina at Chapel Hill, (2)University of North Carolina, (3)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill
- 9:00 **122 105.122**  
Frequency of and Risk Factors for Behavior and Emotional Problems in Siblings of Children Diagnosed with Autism Spectrum Disorder. T. E. Hemming\*<sup>1</sup>, F. Hurewitz<sup>1</sup> and D. S. Mandell<sup>2</sup>, (1)Drexel University, (2)University of Pennsylvania School of Medicine
- 10:00 **123 105.123**  
A Longitudinal Study of Adaptive Abilities and Autistic Symptoms From Middle Childhood to Adulthood. S. L. Marshall\*<sup>1</sup>, K. Gillespie-Lynch<sup>2</sup>, L. Sepeta<sup>2</sup>, J. Barnwell<sup>3</sup>, T. Hutman<sup>2</sup> and M. Sigman<sup>2</sup>, (1)UCLA, (2)University of California, Los Angeles, (3)University of North Carolina at Chapel Hill
- 11:00 **124 105.124**  
Examining the Relation Between ESCS and Pre-Intervention Baseline Levels of Joint Attention. J. M. Londono\*, J. S. Durocher, A. Gutierrez, M. N. Hale, S. Novotny and M. Alessandri, *University of Miami*
- 9:00 **125 105.125**  
Enhancing Positive Emotion Sharing in Toddlers at High Risk for ASD. J. Brian\*<sup>1</sup>, I. M. Smith<sup>2</sup>, T. McCormick<sup>3</sup>, E. Dowds<sup>4</sup>, W. Roberts<sup>5</sup>, L. Zwaigenbaum<sup>6</sup> and S. E. Bryson<sup>7</sup>, (1)Hospital for Sick Children & Bloorview Kids Rehab, (2)Dalhousie University & IWK Health Centre, (3)IWK Health Centre, (4)Bloorview Kids Rehab and Hospital for Sick Children/ University of Toronto, (5)University of Toronto, (6)University of Alberta, (7)Dalhousie University/IWK Health Centre

# Program

- 10:00 **126 105.126**  
Baseline Autonomic State Predictive of Social Responsiveness in Children with Autism Spectrum Disorders. M. A. Patriquin\* and A. Scarpa, *Virginia Tech*
- 11:00 **127 105.127**  
Friendship and Emotional Function Among Children and Adolescents with ASD. S. M. Kanne\*<sup>1</sup> and M. O. Mazurek<sup>2</sup>, (1)*Thompson Center for Autism and Neurodevelopmental Disorders*, (2)*University of Missouri - Columbia*
- 10:00 **129 105.129**  
A Comparable Analysis of Emotion Recognition in Autism Spectrum Disorders (ASD) and Attention Deficit Hyperactivity Disorder (ADHD). K. L. Ashwood\*<sup>1</sup>, B. Azadi<sup>1</sup>, S. Cartwright<sup>1</sup>, P. Asherson<sup>2</sup> and P. Bolton<sup>1</sup>, (1)*Institute of Psychiatry, King's College London*, (2)*Institute of Psychiatry*
- 11:00 **130 105.130**  
A Treatment Program Utilizing Multiple Evidenced-Based Components Promotes Acquisition, Generalization, and Maintenance Effects for Social Skills in Pre-School and Elementary Age Children with ASD. H. Block\*, J. Hood, K. C. Radley, T. P. Gabrielsen, B. Springer, B. Jenson, E. Clark and J. Bowen, *University of Utah*
- 9:00 **131 105.131**  
Advanced Theory of Mind in Autism Spectrum Disorder: From Childhood to Adolescence. A. M. Scheeren\*, S. Begeer and H. M. Koot, *VU University*
- 10:00 **132 105.132**  
Friendship and Loneliness of Students with ASD: Influence of Social Skills. J. L. Birdwhistell\* and L. A. Ruble, *University of Kentucky*
- 11:00 **133 105.133**  
Developmental Associations Between Gaze Shifting, Joint Attention, and Later Autism Spectrum Disorder (ASD) Severity in the Infant Siblings of Children with An ASD. L. Ibanez\*<sup>1</sup>, D. S. Messinger<sup>1</sup> and W. L. Stone<sup>2</sup>, (1)*University of Miami*, (2)*Vanderbilt Kennedy Center*
- 9:00 **134 105.134**  
Comparing Preference and Reinforcer Assessment Methods for Children with ASD. A. J. Margol\*<sup>1</sup>, A. Gutierrez<sup>1</sup>, M. Pawlowski<sup>2</sup>, M. N. Hale<sup>1</sup>, J. S. Durocher<sup>1</sup> and M. Alessandri<sup>1</sup>, (1)*University of Miami*, (2)*Nova Southeastern University*

## Thursday May 20 – PM

1:30-3:30P	IES: The Ethics of Communicating Scientific Risk (Grand Ballroom F Lvl 5)			1:00-5:30P Posters & Exhibits (Franklin Hall B Lvl 4) Social Function, Developmental Stages, Treatment, Clinical Phenotype & Cognition
1:30-3:30P	Oral Session: Communication & Language (Grand Ballroom CD Lvl 5)	Oral Session: Neurophysiology (Grand Ballroom AB Lvl 5)	Oral Session: Brain Imaging 1 (Grand Ballroom E Lvl 5)	
3:30-4:00P	Break (Franklin Hall B Lvl 4)			
4:00-4:30P	Tom Insel: IACC Update: (Grand Ballroom AF Lvl 5)			
4:30-6:00P	Lifetime Achievement Award and Presentations (Grand Ballroom AF Lvl 5) Edward R. Ritvo: "Forty Years Along The Research Trail"			
6:00-8:00P	Reception (Franklin Hall A Lvl 4)			

## Invited Educational Symposium

### 106 The Ethics of Communicating Scientific Findings of Autism Risk

1:30 PM - 3:30 PM - Grand Ballroom F Level 5

*Moderator: C. Newschaffer; Drexel University School of Public Health*

Research on the etiology of autism spectrum disorder (ASD) is increasingly focused on complex genetic and environmental mechanisms. Findings from major new initiatives have the potential to enrich understanding of ASD etiology. Given the intensity of public debate about causes for ASD, communication of scientific findings relating to its etiology presents significant challenges and demands sensitivity. Further difficulties may arise because of challenges involved in communicating potential or realized environmental and genetic risks shown to be associated with ASD. This complexity demands an understanding of the ethical implications associated with scientific findings on autism. However, little attention has been given to the ethics of autism research and challenges involved in communicating complex findings of autism research to the public. In October 2009 a two-day meeting entitled "The Ethics of Communicating Scientific Findings of Autism Risk," brought together leading ASD stakeholders and leaders in relevant areas of risk communication, bioethics, children's health, and community welfare. This IES will provide a summary of key aspects presented and discussed in the October meeting that relate most directly to how research findings are communicated by autism scientists.

- 1:30 **106.001**  
Overview. C. Newschaffer\*, *Drexel University School of Public Health*
- 2:00 **106.002**  
Ethical issues surrounding ASD risk communication. H. Tabor\*, *University of Washington School of Medicine*
- 2:30 **106.003**  
Funding and Advocacy Organizations. G. Dawson\*, *Autism Speaks*
- 3:00 **106.004**  
Ethical and Risk Communication Guidelines. M. Yudell\*, *Drexel University School of Public Health*

## Oral Sessions

### 107 Brain Imaging 1

1:30 PM - 3:30 PM - Grand Ballroom E Level 5

- 1:30 **107.001**  
A Magnetic Resonance Spectroscopy Study of White Matter in Autism. T. W. Frazier\*<sup>1</sup>, J. Stanley<sup>2</sup>, N. J. Minshew<sup>3</sup>, M. S. Keshavan<sup>4</sup> and A. Y. Hardan<sup>5</sup>, (1)*Cleveland Clinic*, (2)*Wayne State University*, (3)*University of Pittsburgh School of Medicine*, (4)*Harvard Medical School*, (5)*Stanford University School of Medicine/Lucile Packard Children's Hospital*
- 1:45 **107.002**  
Abnormal Brain Response to Language Stimuli in Sleeping Infants and Toddlers with ASD. L. T. Eyler\*<sup>1</sup>, K. Pierce<sup>2</sup> and E. Courchesne<sup>2</sup>, (1)*University of California San Diego*, (2)*University of California, San Diego*
- 2:00 **107.003**  
Abnormal Fusiform Gyrus Response to Low but Not High Spatial Frequency Face Information in Autism. K. M. Curby\*<sup>1</sup>, M. Riley<sup>2</sup>, D. W. Grupe<sup>3</sup>, E. T. Hunyadi<sup>2</sup> and R. T. Schultz<sup>4</sup>, (1)*Temple University*, (2)*Children's Hospital of Philadelphia*, (3)*University of Wisconsin-Madison*, (4)*Children's Hospital of Philadelphia and the University of Pennsylvania*
- 2:15 **107.004**  
Biological Motion Perception in Autism and Unaffected Siblings. C. M. Hudac\*<sup>1</sup>, S. Shultz<sup>2</sup>, S. M. Lee<sup>1</sup>, C. Cheung<sup>1</sup>, D. Sugrue<sup>1</sup>, A. Voos<sup>1</sup>, C. A. Saulnier<sup>3</sup>, B. C. Vander Wyk<sup>1</sup> and K. A. Pelphrey<sup>1</sup>, (1)*Yale University*, (2)*Yale School of Medicine*, (3)*Yale University School of Medicine*
- 2:30 **107.005**  
Social Brain Abnormalities in Very Young Children with Autism. N. Chabanne\*<sup>1</sup>, C. Amiet<sup>2</sup>, A. Barginacchi<sup>3</sup>, N. Boddart<sup>4</sup>, L. Laurier<sup>5</sup>, E. Duchesnay<sup>6</sup> and M. Zilbovicius<sup>5</sup>, (1)*INSERM U797, Robert Debre Hospital, AP-HP*, (2)*Salpetriere Hospital, APHP*, (3)*U797 INSERM CEA*, (4)*Hospital Necker*, (5)*Research Unit U797 "Neuroimaging and Psychiatry"*, *CEA - INSERM*, (6)*Research Unit U797 "Neuroimaging and Psychiatry"*, *CEA - INSERM and NeuroSpin, CEA*
- 2:45 **107.006**  
Neural Correlates of the Interaction of Gaze Direction and Facial Expression in Individuals with Autism. E. J. Carter\*<sup>1</sup>, D. L. Williams<sup>2</sup>, N. J. Minshew<sup>3</sup> and K. A. Pelphrey<sup>4</sup>, (1)*Carnegie Mellon University*, (2)*Duquesne University*, (3)*University of Pittsburgh School of Medicine*, (4)*Yale University*

# Program

3:00 **107.007**  
Complex Network Properties of Intrinsic Brain Functional Organization in Autism Spectrum Conditions. M. C. Lai<sup>\*1</sup>, B. Chakrabarti<sup>1</sup>, D. Bassett<sup>2</sup>, D. Meunier<sup>3</sup>, M. V. Lombardo<sup>1</sup>, A. Fornito<sup>3</sup>, J. Suckling<sup>3</sup>, S. Baron-Cohen<sup>4</sup>, E. Bullmore<sup>3</sup> and M. R. C. AIMS Consortium<sup>5</sup>, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, (2)Department of Physics, University of California, Santa Barbara, (3)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, (4)University of Cambridge, (5)University of Cambridge; Institute of Psychiatry, King's College London; University of Oxford

3:15 **107.008**  
Neuroanatomical Differences Between Autism Spectrum Young Adults with Typical Versus Delayed Speech Onset. K. L. Hyde<sup>\*1</sup>, F. Samson<sup>2</sup>, A. C. Evans<sup>3</sup> and L. Mottron<sup>2</sup>, (1)Montreal Neurological Institute, McGill University, (2)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), (3)Montreal Neurological Hospital and Institute, McGill University

## Oral Sessions

### 108 Communication and Language

1:30 PM - 3:30 PM - Grand Ballroom CD Level 5

1:30 **108.001**  
Vocal Behavior in First Year of Life Is Associated with Autistic Symptoms in Infants at Risk for ASD. R. Paul<sup>\*1</sup>, K. Chawarska<sup>1</sup>, Y. Fuerst<sup>1</sup>, L. Berkovits<sup>2</sup> and A. Klin<sup>1</sup>, (1)Yale University School of Medicine, (2)Yale Child Study Center

1:45 **108.002**  
Evaluating Intermodal Processing in Autism and Asperger Syndrome Using the McGurk Effect. J. H. Schroeder<sup>\*</sup>, J. A. Weiss and J. M. Bebko, York University

2:00 **108.003**  
Acoustic and Perceptual Analyses of Expressive Prosody in Children with High-Functioning Autism: A Comparison of Speech From a Structured Task and Conversation. H. Shaw and A. Nadig<sup>\*</sup>, McGill University

2:15 **108.004**  
Comparison of Children with Autism Spectrum Disorders and Developmental Language Disorders On Processing of Affective Information in Face, Voice, and Situational Contexts. J. van Santen<sup>\*</sup>, L. M. Black, J. de Villiers, R. Coulston, B. Langhorst, M. K. August and R. Sanger-Hahn, Oregon Health & Science University

2:30 **108.005**  
Acoustic Differences in the Imitation of Prosodic Patterns by Children with Autism Spectrum Disorders. J. J. Diehl<sup>\*1</sup> and R. Paul<sup>2</sup>, (1)University of Notre Dame, (2)Yale University School of Medicine

2:45 **108.006**  
Predictors of Expressive Language Gain in Toddlers with ASD Enrolled in Early Intervention. A. Dubin<sup>\*</sup>, L. Kalb and R. Landa, Kennedy Krieger Institute

3:00 **108.007**  
Perspective Taking Abilities in Children with Autism: The Influence of Working Memory and Theory of Mind On Shared Knowledge. J. Schuh<sup>\*1</sup>, D. Mirman<sup>2</sup> and I. M. Eigsti<sup>1</sup>, (1)University of Connecticut, (2)Moss Rehabilitation Research Institute

3:15 **108.008**  
Responding to and Learning Joint Attention: A Comparison of Infant Siblings of Children with Autism and Typically Developing Infants. K. Gillespie-Lynch<sup>\*</sup>, T. Hutman, S. Gaither, A. Navab, D. Beck-Pancer, M. Sigman and S. P. Johnson, University of California, Los Angeles

## Oral Sessions

### 109 Neurophysiology 1

1:30 PM - 3:30 PM - Grand Ballroom AB Level 5

1:30 **109.001**  
Texture Segregation in School-Aged Autistic Children: A Visual Evoked Potential (VEP) Study. J. Bertrand-Rivest<sup>\*1</sup>, A. Bertone<sup>1</sup>, M. McKerral<sup>2</sup>, M. Lassonde<sup>2</sup> and L. Mottron<sup>1</sup>, (1)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), (2)Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Canada

1:45 **109.002**  
Atypical Electrophysiological Response and Lateralization to Speech Stimuli in Infants at Risk for Autism Spectrum Disorder. A. Seery<sup>\*1</sup>, V. Vogel-Farley<sup>2</sup>, T. Augenstein<sup>2</sup>, L. Casner<sup>1</sup>, L. Kasparian<sup>1</sup>, H. Tager-Flusberg<sup>1</sup> and C. A. Nelson<sup>2</sup>, (1)Boston University, (2)Children's Hospital Boston

2:00 **109.003**  
The Utility of ERP Measures as Putative Intermediate Phenotypes in Infancy. M. Elsabbagh<sup>\*1</sup>, E. Mercure<sup>1</sup>, K. Hudry<sup>2</sup>, T. Charman<sup>3</sup>, S. Baron-Cohen<sup>4</sup>, P. Bolton<sup>5</sup>, A. Pickles<sup>6</sup>, M. H. Johnson<sup>1</sup> and .. The BASIS Team<sup>\*7</sup>, (1)Birkbeck, University of London, (2)Department of Psychology and Human Development, Institute of Education, (3)Institute of Education, University of London, (4)University of Cambridge, (5)Institute of Psychiatry, King's College London, (6)University of Manchester, (7)BASIS

2:15 **109.004**  
Pupillary Light Reflex as New Biomarker for Autism. E. J. Hessler<sup>1</sup>, J. H. Miles<sup>\*1</sup>, T. N. Takahashi<sup>1</sup>, X. Fan<sup>2</sup> and G. Yao<sup>2</sup>, (1)University of Missouri, (2)University of Missouri

2:30 **109.005**  
Neurophysiological Correlates of Treatment Outcomes. J. Stieben<sup>\*</sup>, S. Shanker and D. Casenhiser, York University

2:45 **109.006**  
Impaired Word Processing in Children with Autism Spectrum Disorders as Revealed by Mismatch Negativity. A. K. Ludlow<sup>\*1</sup>, B. Mohr<sup>1</sup>, A. Whitmore<sup>1</sup>, M. Garagnani<sup>2</sup> and F. Pulvermüller<sup>2</sup>, (1)Anglia Ruskin University, (2)Medical Research Council, Cognition and Brain Sciences Unit

3:00 **109.007**  
Gamma Band Oscillopathy: An Electrical Signature of Language Impairment in ASD That Impairs Active Listening. J. P. Welsh<sup>\*1</sup>, P. V. Rodrigues<sup>2</sup>, J. C. Edgar<sup>3</sup> and T. P. L. Roberts<sup>3</sup>, (1)Seattle Childrens Research Institute/University of Washington, (2)University of Pennsylvania, (3)Children's Hospital of Philadelphia

3:15 **109.008**  
Neural Correlates of Social Rejection in Autism Spectrum Disorder. J. McPartland<sup>\*1</sup>, M. J. Crowley<sup>2</sup>, P. Molfese<sup>1</sup>, D. Perszyk<sup>1</sup>, A. Klin<sup>3</sup> and L. Mayes<sup>1</sup>, (1)Yale Child Study Center, (2)Yale University, (3)Yale University School of Medicine



## Lifetime Achievement Award and Presentations

### 110 Forty Years along the Research Trail

4:30 PM - 6:00 PM - Grand Ballroom AF Level 5

Speaker: E. R. Ritvo; UCLA

I shall describe my research career, which has focused on understanding the nature of Autism Spectrum Disorder for forty years. I began my child psychiatry residency at Harvard Medical School in 1957, joined the faculty of UCLA as an instructor in 1962, retired there as Full Professor. I now conduct research from my home office. Over the decades I have recruited colleagues from many disciplines to help study my autistic patients, and have published research papers in the areas of; neuro-physiology, neuro-biochemistry, pharmacotherapy, epidemiology, genetics, neuro-radiology, neuro-pathology, as well as on clinical issues. My writings also include three books on autism. I have always been an outspoken advocate for my patients and their families, will describe some of the controversies that engulfed the "autism world" as the decades unfolded.

## Poster Sessions

### 111 Clinical Phenotype

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **1 111.001**  
ASD and ADHD: Alternate Phenotype or Common Issue Etiopathology. R. Delorme\*<sup>1</sup>, P. Chaste<sup>2</sup>, C. Moreau<sup>3</sup>, C. Paredes<sup>4</sup>, F. Amsellem<sup>3</sup>, M. Leboyer<sup>5</sup> and E. Herbrecht<sup>5</sup>, (1)INSERM U 955, IMRB, Psychiatry Genetics, Créteil, France; department of child and adolescent psychiatry, Hôpital Robert Debré, (2)INSERM U 955, IMRB, Psychiatry Genetics, Créteil, France; Department of Child and Adolescent Psychiatry, Paris, France, (3)Child and Adolescent Psychiatry, Robert Debré Hospital, (4)Department of Psychiatry, A. Chenevier Hospital, Créteil, France, (5)INSERM U 955, IMRB, Psychiatry Genetics, Créteil, France; Fondation FondaMental
- 2:00 **2 111.002**  
Atypical Sensory Processing in Individuals with ASD and Their Relatives: An Intermediate Phenotype?. I. L. J. Noens\*<sup>1</sup>, W. De la Marche<sup>2</sup> and J. Steyaert<sup>2</sup>, (1)Katholieke Universiteit Leuven, (2)UPC-K.U.Leuven
- 3:00 **3 111.003**  
Autism Spectrum Disorder Characteristics in Smith-Lemli-Opitz Syndrome. I. Bukelis\*<sup>1</sup>, E. Tierney<sup>1</sup>, J. Teng<sup>1</sup>, C. Wheeler<sup>1</sup>, Y. Chen<sup>1</sup>, S. K. Conley<sup>2</sup>, F. D. Porter<sup>3</sup> and W. E. Kaufmann<sup>1</sup>, (1)Kennedy Krieger Institute, (2)NICHD/NIH, (3)National Institutes of Health/NICHD
- 1:00 **4 111.004**  
Autism Symptomatology and Psychopathology in Girls and Boys with Autism Spectrum Disorders. M. Miller\*<sup>1</sup>, M. Solomon<sup>2</sup>, S. P. Hinshaw<sup>1</sup> and C. S. Carter<sup>2</sup>, (1)University of California, Berkeley, (2)MIND Institute, Imaging Research Center
- 2:00 **5 111.005**  
Behavioral Profiles of Premature Infants: Similarities and Differences to Infant Siblings Later Diagnosed with Autism. C. Roncadin\*<sup>1</sup>, M. Rourke<sup>1</sup>, S. Jilderda<sup>1</sup>, J. Brian<sup>2</sup>, S. E. Bryson<sup>3</sup>, A. Niccols<sup>4</sup>, W. Roberts<sup>5</sup>, I. M. Smith<sup>6</sup> and L. Zwaigenbaum<sup>7</sup>, (1)Peel Children's Centre, (2)Hospital for Sick Children & Bloorview Kids Rehab, (3)Dalhousie University/IWK Health Centre, (4)McMaster Children's Hospital-Chedoke Site, (5)University of Toronto, (6)Dalhousie University & IWK Health Centre, (7)University of Alberta
- 3:00 **6 111.006**  
Stability of Autism Spectrum Disorder in Children Diagnosed by Age 24 Months. L. H. Shulman\*, M. D. Valicenti-McDermott, K. Hottinger, R. M. Seijo, D. J. Meringolo and N. Tarshis, *Albert Einstein College of Medicine*
- 1:00 **7 111.007**  
The Electroretinogram in Adults with ASD. P. A. Constable<sup>1</sup>, D. A. Thompson<sup>2</sup> and D. M. Bowler\*<sup>3</sup>, (1)City University, (2)Great Ormond Street Hospital, (3)City University, London
- 2:00 **8 111.008**  
The Home Situations Questionnaire-PDD Version: Factor Structure and Psychometric Properties. M. Chowdhury\* and M. G. Aman, *The Ohio State University*
- 3:00 **9 111.009**  
The Implementation of the M-CHAT Follow-up Interview in a Community-Based Autism Screening Program in Italy: Preliminary Results. E. Salomone\*<sup>1</sup>, F. Muratori<sup>2</sup>, A. Narzisi<sup>2</sup>, A. Pitanti<sup>3</sup>, C. Grassi<sup>3</sup>, R. Tancredi<sup>2</sup> and P. F. M. Molina<sup>1</sup>, (1)University of Turin, (2)University of Pisa – Stella Maris Scientific Institute, (3)USL 1 Massa e Carrara
- 1:00 **10 111.010**  
A Family of Origin Scale in Mothers of Children with ASD. P. Gorczyca\*<sup>1</sup>, A. Kapinos-Gorczyca<sup>2</sup>, M. Kapinos<sup>3</sup>, J. Sobis<sup>1</sup>, A. Leksowska<sup>1</sup> and R. T. Hese<sup>1</sup>, (1)Medical University of Silesia, (2)NZOZ FENIKS, (3)Psychiatric Hospital of Rybnik
- 2:00 **11 111.011**  
A Novel Measure of Joint Attention for Use with Older Children and Adolescents: Evidence for Clinical Utility and External Validity. J. L. Bean\*, J. Casares and I. M. Eigsti, *University of Connecticut*
- 3:00 **12 111.012**  
Autism and Autistic Traits: The Clinical Validity of the SRS and the SCDC. S. Bölte\*, *Central Institute of Mental Health*
- 1:00 **13 111.013**  
Autism Spectrum Disorder Phenotype Profiles in Proband From Simplex Versus Multiplex Families. J. Gerds\* and R. Bernier, *University of Washington*
- 2:00 **14 111.014**  
Autism Spectrum Disorders: A Dimension or Sub-Categories?. T. W. Frazier\*<sup>1</sup>, R. Embacher<sup>1</sup>, P. A. Law<sup>2</sup> and J. N. Constantino<sup>3</sup>, (1)Cleveland Clinic, (2)Kennedy Krieger Institute, (3)Washington University School of Medicine
- 3:00 **15 111.015**  
Challenges in the Diagnoses of Autism Spectrum Disorders in the Community. S. E. Levine\*, A. Y. Hardan, M. Boettcher-Minjaréz and C. Feinstein, *Stanford*
- 1:00 **16 111.016**  
Sensitivity and Specificity of Original and Revised ADOS Algorithms in a Clinical Setting. D. Murray\*, C. A. Molloy, R. Akers, S. L. Bishop and P. Manning-Courtney, *Cincinnati Children's Hospital Medical Center*

# Program

- 2:00 **17 111.017**  
The Anatomic Severity Scale Correlates with Level of Impairment On Measurements of Autism and Intellectual Disability in Children with Smith-Lemli-Opitz Syndrome (SLOS). R. W. Y. Lee\*<sup>1</sup>, I. Bukelis<sup>1</sup>, F. D. Porter<sup>2</sup>, W. E. Kaufmann<sup>1</sup> and E. Tierney<sup>1</sup>, (1)*Kennedy Krieger Institute*, (2)*National Institutes of Health/NICHD*
- 3:00 **18 111.018**  
Use of the Leiter International Performance Scale-Revised with Children with Autism Spectrum Disorders. S. N. Grondhuis\*, J. A. Mulick and M. G. Aman, *The Ohio State University*
- 1:00 **19 111.019**  
Application of the ADOS Severity Metric in a Sample of Young Children. S. Shumway\*, A. Thurm and D. L. Mead, *National Institute of Mental Health, National Institutes of Health*
- 2:00 **20 111.020**  
DOES Intensive TREATMENT Lead to BETTER RESULTS in Toddlers with AUTISM Spectrum Disorders (ASD). R. Choueiri\*<sup>1</sup>, S. Wagner<sup>2</sup> and E. Perrin<sup>1</sup>, (1)*Floating Hospital for Children, Tufts Medical School*, (2)*Behavioral Development & Educational Services*
- 3:00 **21 111.021**  
Sleep Is Associated with Problem Behaviors in Children with Autism Spectrum Disorder. S. E. Goldman\* and B. A. Malow, *Vanderbilt University*
- 1:00 **22 111.022**  
Symptoms of Autism Spectrum Disorders (ASDs) in SMITH-MAGENIS Syndrome (SMS). P. Cavolina<sup>1</sup>, L. Boccone<sup>2</sup>, G. Putzolu<sup>1</sup>, M. Carta<sup>3</sup>, R. Fadda<sup>4</sup> and G. Doneddu\*<sup>5</sup>, (1)*A.O.B. (Azienda Ospedaliera Brotzu)*, (2)*Centre for Microcitemie*, (3)*A.O. Brotzu*, (4)*Department of Psychology*, (5)*Azienda Ospedaliera Brotzu*
- 2:00 **23 111.023**  
The Measurement of Reduced and Oxidized Glutathione Levels in the Sera of Autistic Children in Oman. M. Waly\*<sup>1</sup>, Y. Al-Farsi<sup>2</sup>, A. Ali<sup>1</sup>, M. Al-Shafae<sup>3</sup> and M. Al-Sharbaty<sup>2</sup>, (1)*Sultan Qaboos University, College of Agricultural and Marine Sciences*, (2)*College of Medicine and Health Sciences, Sultan Qaboos University*, (3)*Sultan Qaboos University*
- 3:00 **24 111.024**  
The Role of FMR1 in the Language Profile Associated with the Broad Autism Phenotype. J. Klusek\* and M. Losh, *University of North Carolina at Chapel Hill*
- 1:00 **25 111.025**  
The Serotonin-Melatonin Pathway in Autism Spectrum Disorders: An Extensive Biochemical Study. C. Pagan\*<sup>1</sup>, P. Chaste<sup>2</sup>, E. Herbrecht<sup>3</sup>, J. Callebort<sup>4</sup>, E. Jacqz-Aigrain<sup>5</sup>, M. F. Hurtaud<sup>6</sup>, M. Leboyer<sup>3</sup>, T. Bourgeron<sup>7</sup>, J. M. Launay<sup>4</sup> and R. Delorme<sup>8</sup>, (1)*Human Genetics and Cognitive Functions, Institut Pasteur ; Université Paris Descartes*, (2)*INSERM U 955, IMRB, Psychiatry Genetics, Créteil, France; Department of Child and Adolescent Psychiatry, Paris, France*, (3)*INSERM U 955, IMRB, Psychiatry Genetics, Créteil, France; Fondation FondaMental*, (4)*Service de Biochimie, Hôpital Lariboisière, Assistance Publique-Hôpitaux de Paris, Université Paris Descartes*, (5)*Centre d'Investigations Cliniques, Hôpital Robert Debré, Assistance Publique-Hôpitaux de Paris*, (6)*Service d'Hématologie, Hôpital Robert Debré, Assistance Publique-Hôpitaux de Paris*, (7)*Human Genetics and Cognitive Functions, Institut Pasteur ; Université Paris 7 Diderot*, (8)*INSERM U 955, IMRB, Psychiatry Genetics, Créteil, France; department of child and adolescent psychiatry, Hôpital Robert Debré*

- 2:00 **26 111.026**  
Use of the Social Responsiveness Scale as a Screening Tool for Children Referred for Evaluation of Developmental Disabilities. E. M. Griffith\*, S. E. O'Kelley, T. Perez, F. J. Biasini, K. Guest and K. J. Bailey, *University of Alabama at Birmingham*
- 3:00 **27 111.027**  
Validating the Accuracy of a Rapid Phenotyping Paradigm Using Web-Based Parent Input. H. Lee\*<sup>1</sup>, A. R. Marvin<sup>2</sup>, T. Watson<sup>3</sup>, J. Piggot<sup>1</sup>, S. S. Marvin<sup>2</sup>, E. Yahudah<sup>2</sup>, R. Friedman<sup>2</sup>, S. Scheller<sup>2</sup>, J. K. Law<sup>2</sup>, P. Law<sup>2</sup>, J. N. Constantino<sup>3</sup> and S. F. Nelson<sup>1</sup>, (1)*University of California, Los Angeles*, (2)*Kennedy Krieger Institute*, (3)*Washington University School of Medicine*

## Poster Sessions

### 111 Cognition

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **28 111.028**  
"Everyday Memory" Impairments in Autism Spectrum Disorders. C. R. G. Jones\*<sup>1</sup>, F. Happé<sup>2</sup>, A. Pickles<sup>3</sup>, A. J. S. Marsden<sup>4</sup>, J. Tregay<sup>4</sup>, G. Baird<sup>5</sup>, E. Simonoff<sup>6</sup> and T. Charman<sup>1</sup>, (1)*Institute of Education, University of London*, (2)*Institute of Psychiatry, KCL*, (3)*University of Manchester*, (4)*UCL Institute of Child Health*, (5)*Guy's Hospital*, (6)*Institute of Psychiatry*
- 2:00 **29 111.029**  
Absence of Lateralization of Visual Scanning to Varying Facial Affect in Toddlers with Autism. L. A. Edwards\*<sup>1</sup>, G. Ramsay<sup>2</sup>, W. Jones<sup>2</sup> and A. Klin<sup>1</sup>, (1)*Yale University School of Medicine*, (2)*Yale School of Medicine*
- 3:00 **30 111.030**  
An Exploration of Mathematical Abilities in High Functioning Autism (HFA). C. Piatt\*, C. Korenowski, J. Volden and J. Bisanz, *University of Alberta*
- 1:00 **31 111.031**  
Beta-Adrenergic Modulation of Context Processing in Individuals with An Autism Spectrum Disorder. K. E. Bodner\*<sup>1</sup>, S. S. Saklayen<sup>2</sup>, D. Q. Beversdorf<sup>1</sup> and S. E. Christ<sup>1</sup>, (1)*University of Missouri*, (2)*The Ohio State University*
- 2:00 **32 111.032**  
Children with Autism Use Emotional but Not Referential Cues to Predict Others' Actions. G. Vivanti\*<sup>1</sup>, C. McCormick<sup>2</sup>, G. S. Young<sup>1</sup>, N. Hatt<sup>3</sup>, F. Abucayan<sup>1</sup>, A. Nadig<sup>4</sup>, S. Ozonoff<sup>5</sup> and S. J. Rogers<sup>5</sup>, (1)*UC Davis M.I.N.D. Institute*, (2)*M.I.N.D. Institute, University of California Davis*, (3)*University of California, Davis*, (4)*McGill University*, (5)*M. I.N.D. Institute, University of California at Davis*
- 3:00 **33 111.033**  
Cognitive Flexibility in Autism Spectrum Disorders: Deficits On a Pure and Sensitive Card Sorting Task. L. Van Eylen\*<sup>1</sup>, J. Steyaert<sup>2</sup>, J. Wagemans<sup>1</sup> and I. L. J. Noens<sup>1</sup>, (1)*Katholieke Universiteit Leuven*, (2)*UPC-K.U.Leuven*
- 1:00 **34 111.034**  
Discriminant Validity of ToM Storybooks and TEC in An Italian Sample of PDD Children. P. F. M. Molina, D. Bulgarelli and E. Salomone\*, *University of Turin*
- 2:00 **35 111.035**  
Divided Auditory Attention in Children with Autism Spectrum Disorders. M. Wills\*<sup>1</sup>, B. Yerys<sup>2</sup>, J. James<sup>1</sup>, R. Oliveras-Rentas<sup>1</sup>, G. L. Wallace<sup>3</sup>, D. O. Black<sup>3</sup>, K. F. Jankowski<sup>1</sup>, A. M. Bollich<sup>1</sup> and L. Kenworthy<sup>1</sup>, (1)*Children's National Medical Center*, (2)*Children's National Medical Center, George Washington University*, (3)*National Institute of Mental Health, National Institutes of Health*

- 3:00 **36 111.036**  
Executive Function and Symptom Expression Among High Functioning Children with ASD. S. Faja\*<sup>1</sup>, G. Dawson<sup>2</sup> and J. Tiwana<sup>3</sup>, (1)*The Children's Hospital of Philadelphia*, (2)*UNC Chapel Hill*, (3)*University of Washington*
- 1:00 **37 111.037**  
Greater Face-Gender Effects On Emotional Face Preferences in Infant Siblings of Children with Autism Spectrum Disorders (ASD). L. J. Carver\*<sup>1</sup>, V. Sampath<sup>2</sup> and K. R. Dobkins<sup>3</sup>, (1)*UC San Diego*, (2)*University of California San Diego*, (3)*University of California, San Diego*
- 2:00 **38 111.038**  
HOW Magic Changes Our Expectations about AUTISM. S. R. Leekam\*<sup>1</sup>, G. Kuhn<sup>2</sup> and A. Kourkoulou<sup>1</sup>, (1)*Cardiff University*, (2)*Brunel University*
- 3:00 **39 111.039**  
The Abstraction of Prototypes by Infants at Low and High Risk for Autism. M. S. Strauss\*, H. Z. Gastgeb, K. W. Chua, S. Green, S. F. Hannigen and D. Wilkinson, *University of Pittsburgh*
- 1:00 **40 111.040**  
The Development of Theory-of-Mind and the Theory-of-Mind Storybooks. E. M. A. Blijd-Hoogewys\*<sup>1</sup>, P. L. C. van Geert<sup>2</sup>, M. Serra<sup>3</sup> and R. B. Minderaa<sup>3</sup>, (1)*Lentis*, (2)*University of Groningen*, (3)*University Medical Center Groningen*
- 2:00 **41 111.041**  
Using Virtual Reality to Provide Controlled Ecologically Valid Social Interaction Paradigms for Studying Cognitive Control of Initiating Joint Attention. W. L. Jarrold\*<sup>1</sup>, M. Solomon<sup>2</sup>, J. Bailenson<sup>3</sup>, M. Gwaltney<sup>1</sup>, S. Ozonoff<sup>4</sup> and P. C. Mundy<sup>1</sup>, (1)*U.C. Davis*, (2)*MIND Institute, Imaging Research Center*, (3)*Stanford*, (4)*M.I.N.D. Institute, University of California at Davis*
- 3:00 **42 111.042**  
What's in a Voice? Mindreading and Prosody in Autism Spectrum Disorders. C. Chevallier\*, *Institute of Psychiatry, King's College London*
- 1:00 **43 111.043**  
Audiovisual Synchrony Predicts Level of Visual Fixation On Mouth and Eyes in 2-Year-Olds with Autism. J. Xu\*<sup>1</sup>, G. Ramsay<sup>1</sup>, A. Klin<sup>2</sup> and W. Jones<sup>1</sup>, (1)*Yale School of Medicine*, (2)*Yale University School of Medicine*
- 2:00 **44 111.044**  
Autism and the Conjunction Fallacy. K. Morsanyi\*, S. J. Handley and J. S. B. T. Evans, *University of Plymouth*
- 3:00 **45 111.045**  
Bottle or No Bottle: Effects of Breastfeeding in the ASD Population. S. M. Munger\*, N. Adams, E. H. Sheridan, M. W. Gower, J. Barstein, T. Perez and E. M. Griffith, *University of Alabama at Birmingham*
- 1:00 **46 111.046**  
Change-Blindness: Lack of Typical Salience for Social Information in Autism Spectrum Conditions. C. Ashwin\*<sup>1</sup>, A. Woolgar<sup>2</sup> and S. Baron-Cohen<sup>3</sup>, (1)*University of Bath*, (2)*Medical Research Council: Cognition and Brain Sciences Unit*, (3)*University of Cambridge*
- 2:00 **47 111.047**  
Cognitive Flexibility as a Window Into Restricted, Repetitive, Behaviors and Interests: From Behavior to Brain. B. Yerys\*<sup>1</sup>, L. Kenworthy<sup>2</sup>, K. F. Jankowski<sup>2</sup>, E. Wing<sup>2</sup>, J. James<sup>2</sup>, W. D. Gaillard<sup>2</sup>, C. J. Vaidya<sup>3</sup> and G. L. Wallace<sup>4</sup>, (1)*Children's National Medical Center, George Washington University*, (2)*Children's National Medical Center*, (3)*Georgetown University*, (4)*National Institute of Mental Health, National Institutes of Health*
- 3:00 **48 111.048**  
Exploring the Emotional Audio-Visual Integration Ability in Autism-Using a Paradigm of Voice to Facial Expression Interference. Z. H. Xiao and L. X. Wang\*, *Beijing Normal University*
- 1:00 **49 111.049**  
High Risk Infants' Visual Scanning and Attention Disengagement in Response to Emotional Faces. J. B. Wagner\*<sup>1</sup>, R. Luyster<sup>1</sup>, H. Tager-Flusberg<sup>2</sup> and C. A. Nelson<sup>3</sup>, (1)*Children's Hospital Boston/Harvard Medical School*, (2)*Boston University*, (3)*Children's Hospital Boston*
- 2:00 **50 111.050**  
Increasing Facial Recognition Skills in Children with Autism. M. W. Gower\*, T. Perez, N. Adams and E. H. Sheridan, *University of Alabama at Birmingham*
- 3:00 **51 111.051**  
Parent and Teacher Report of Behaviors in Children with Autism Spectrum Disorders: The Effects of Parent Stress and Teacher Burnout. J. C. Landoll\*<sup>1</sup>, P. S. Schoultz<sup>1</sup>, D. C. Coman<sup>1</sup>, A. Gutierrez<sup>1</sup>, M. Alessandri<sup>1</sup>, K. Hume<sup>2</sup>, L. Sperry<sup>3</sup>, B. Boyd<sup>4</sup> and S. Odom<sup>4</sup>, (1)*University of Miami*, (2)*Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill*, (3)*University of Colorado Denver*, (4)*University of North Carolina*
- 1:00 **52 111.052**  
Response Variability in a Low-Functioning Individual with Autism: Practical and Theoretical Implications. E. J. Pickett\*, N. M. Billings, L. V. Van Droof and B. Gordon, *Johns Hopkins Medical Institutions*
- 2:00 **53 111.053**  
Subcortical Visual Network for Face Processing: Implications for Autism. V. Troiani\*, E. T. Hunyadi, M. Riley, J. D. Herrington and R. T. Schultz, *Children's Hospital of Philadelphia*
- 3:00 **54 111.054**  
The Challenge Task: The Development of a Group Observational Measure for Flexibility in Children with High-Functioning Autism Spectrum Disorders. J. L. Sokoloff\*<sup>1</sup>, L. Kenworthy<sup>1</sup>, A. Pierce<sup>2</sup>, K. Kane<sup>1</sup>, J. F. Strang<sup>1</sup>, M. Adler<sup>2</sup> and L. G. Anthony<sup>3</sup>, (1)*Children's National Medical Center*, (2)*Ivymount School*, (3)*Children's National Medical Center, George Washington University Medical School*
- 1:00 **55 111.055**  
The Role of Maternal Education and Stress On Developmental Rates for Preschool Children with Autism Spectrum Disorders. P. S. Schoultz\*<sup>1</sup>, J. C. Landoll<sup>1</sup>, D. C. Coman<sup>1</sup>, A. Gutierrez<sup>1</sup>, M. Alessandri<sup>1</sup>, K. Hume<sup>2</sup>, L. Sperry<sup>3</sup>, B. Boyd<sup>4</sup> and S. Odom<sup>4</sup>, (1)*University of Miami*, (2)*Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill*, (3)*University of Colorado Denver*, (4)*University of North Carolina*
- 2:00 **56 111.056**  
Theory of Mind Evaluated by Tom Storybooks in Children with Autistic Spectrum Disorders: a Longitudinal Study. B. Cartier-Nelles\*<sup>1</sup>, E. Thommen<sup>2</sup>, A. Guidoux<sup>1</sup>, S. Wiesendanger<sup>1</sup> and E. M. A. Blijd-Hoogewys<sup>3</sup>, (1)*University of Applied Sciences Western Switzerland of Lausanne*, (2)*University of Fribourg and University of Applied Sciences Western Switzerland of Lausanne (EESP), Switzerland*, (3)*Lentis*
- 3:00 **57 111.057**  
Academic Functioning in Children with ASDs Who Have Achieved Optimal Outcomes. E. Troyb\*<sup>1</sup>, K. E. Tyson<sup>1</sup>, M. Rosenthal<sup>1</sup>, L. E. Herlihy<sup>1</sup>, M. Helt<sup>1</sup>, A. Orinstein<sup>1</sup>, I. M. Eigsti<sup>1</sup>, L. Naigles<sup>1</sup>, M. L. Barton<sup>1</sup>, E. A. Kelley<sup>2</sup>, M. C. Stevens<sup>3</sup>, R. T. Schultz<sup>4</sup> and D. A. Fein<sup>1</sup>, (1)*University of Connecticut*, (2)*Queen's University*, (3)*Institute of Living, Hartford Hospital / Yale University*, (4)*Children's Hospital of Philadelphia and the University of Pennsylvania*

# Program

- 1:00 **58 111.058**  
Adaptive Functioning and Cognitive Development in Young Children with Autism. G. Mathai\*<sup>1</sup>, L. L. Sears<sup>1</sup> and L. A. Ruble<sup>2</sup>, (1)*University of Louisville*, (2)*University of Kentucky*
- 2:00 **59 111.059**  
Adults with Autism's Understanding of Emotion in Context. S. A. Cassidy\*, P. Mitchell, D. Ropar and P. Chapman, *University of Nottingham*
- 3:00 **60 111.060**  
Are Siblings Important Agents of Cognitive Development? Examining the Effect of Siblings On the Cognitive Skills of Children with Autism. K. A. O'Brien\* and V. P. Slaughter, *University of Queensland*
- 1:00 **61 111.061**  
Characterizing Theory of Mind in Autism Spectrum Disorders: The Importance of Siblings. N. Basehore\*<sup>1</sup>, A. Lukowski<sup>1</sup>, M. M. Abdullah<sup>1</sup>, A. R. Ly<sup>1</sup>, K. Thorsen<sup>2</sup>, K. Osann<sup>1</sup> and W. A. Goldberg<sup>1</sup>, (1)*University of California, Irvine*, (2)*UCI School of Social Ecology*
- 2:00 **62 111.062**  
Cognitive Control in ASD: Methods to Explain Inconsistencies in Earlier Findings. H. M. Geurts\*, *University of Amsterdam*
- 3:00 **63 111.063**  
Cognitive Control Mechanisms Underlying Impaired Learning in Adults with Autism Spectrum Disorders. M. Solomon\*<sup>1</sup>, M. J. Frank<sup>2</sup>, A. Smith<sup>3</sup>, D. Badre<sup>2</sup>, A. Kayser<sup>4</sup> and C. S. Carter<sup>1</sup>, (1)*MIND Institute, Imaging Research Center*, (2)*Brown University*, (3)*U.C. Davis*, (4)*University of California, San Francisco*
- 1:00 **64 111.064**  
Comparing Face and Object Recall with Clinical Instruments for Individuals with Autism Spectrum Disorders. L. Guy\*<sup>1</sup>, D. Glass<sup>2</sup>, T. Cermak<sup>2</sup>, J. Campbell<sup>3</sup>, O. Ousley<sup>4</sup>, K. Rockers<sup>5</sup> and A. Pakula<sup>1</sup>, (1)*Marcus Autism Center, Emory University School of Medicine*, (2)*Marcus Autism Center*, (3)*University of Georgia*, (4)*Emory University*, (5)*Emory University School of Medicine*
- 2:00 **65 111.065**  
Dissociation of Cognitive and Emotional Empathy: the Multifaceted Empathy Test for Children and Adolescents: MET-J. L. Poustka\*<sup>1</sup>, A. Rehm<sup>1</sup>, S. Steiner<sup>1</sup>, M. Bock<sup>1</sup>, B. Rothermel<sup>1</sup>, M. Holtmann<sup>1</sup> and I. Dziobek<sup>2</sup>, (1)*Central Institute of Mental Health*, (2)*Freie Universität Berlin*
- 3:00 **66 111.066**  
Iconic Memory: Examining the Visual Information Processing Abilities in Children with Autism Spectrum Disorder. C. A. McMorris\*, J. M. Bebko and L. N. Hancock, *York University*
- 1:00 **67 111.067**  
Joint Attention as a Predictor of Developmental Change in Preschool-Aged Children with Autism Spectrum Disorders. S. Novotny\*<sup>1</sup>, D. C. Coman<sup>1</sup>, P. S. Schoultz<sup>1</sup>, A. Gutierrez<sup>1</sup>, M. Alessandri<sup>1</sup>, K. Hume<sup>2</sup>, L. Sperry<sup>3</sup>, B. Boyd<sup>4</sup> and S. Odom<sup>4</sup>, (1)*University of Miami*, (2)*Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill*, (3)*University of Colorado Denver*, (4)*University of North Carolina*
- 2:00 **68 111.068**  
NEPSY-II Social Cognition Profiles for Children with Autism Spectrum Disorders and Their Siblings: Preliminary Results. B. E. Deerrose\*<sup>1</sup>, J. M. Phillips<sup>1</sup>, K. J. Parker<sup>1</sup> and A. Y. Hardan<sup>2</sup>, (1)*Stanford University*, (2)*Stanford University School of Medicine/ Lucile Packard Children's Hospital*
- 3:00 **69 111.069**  
Prototype Learning in Preschoolers with Autism Spectrum Disorders. S. McCurry\*, H. Noble, L. G. Klinger and M. R. Klinger, *University of Alabama*

- 1:00 **70 111.070**  
Sensitivity and Response to Direct and Averted Gaze in Toddlers with Autism Spectrum Disorders. K. A. Rice\*<sup>1</sup>, W. Jones<sup>2</sup> and A. Klin<sup>1</sup>, (1)*Yale University School of Medicine*, (2)*Yale School of Medicine*
- 1:00 **179 136.013**  
The Difference Between High-Functioning Autistic Disorder and the Other Pervasive Developmental Disorders in Mind-Reading Ability. M. Kuroda\*<sup>1</sup>, A. Wakabayashi<sup>2</sup>, T. Uchiyama<sup>3</sup>, Y. Yoshida<sup>3</sup>, T. Koyama<sup>1</sup> and Y. Kamio<sup>4</sup>, (1)*National Center of Neurology and Psychiatry*, (2)*Chiba University*, (3)*Yokohama Psycho-Developmental Clinic*, (4)*National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health*

## Poster Sessions

### 111 Developmental Stages

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **71 111.071**  
Associated Psychiatric Conditions, Problem Behavior, and Adaptive Functioning in Adolescents with ASD. C. M. Brock\*<sup>1</sup>, A. M. Estes<sup>1</sup>, L. Sterling<sup>2</sup>, J. Munson<sup>1</sup>, B. King<sup>3</sup> and G. Dawson<sup>4</sup>, (1)*University of Washington*, (2)*University of California, Los Angeles*, (3)*University of Washington and Children's Hospital and Regional Medical Center*, (4)*UNC Chapel Hill*
- 2:00 **72 111.072**  
Attention During Face-to-Face Interaction: When Do Infants at-Risk for Autism Shift Gaze?. N. Ekas\*, L. Ibanez, W. Mattson and D. S. Messinger, *University of Miami*
- 3:00 **73 111.073**  
Comparison of Adaptive Behavior Trajectories in Childhood Disintegrative Disorder Versus Autistic Disorder. A. Westphal\*<sup>1</sup>, A. Ristow<sup>1</sup> and F. R. Volkmar<sup>2</sup>, (1)*Yale University*, (2)*Yale School of Medicine*
- 1:00 **74 111.074**  
Early Gesture Use in Infants with Autism Spectrum Disorders with and without Regression. K. P. Wilson\*, J. Dykstra, L. Watson, G. T. Baranek and E. Crais, *University of North Carolina at Chapel Hill*
- 2:00 **75 111.075**  
Examining Temperament in a Longitudinal Study of High-Risk Infants for ASD. K. M. Burner\*<sup>1</sup>, K. M. Venema<sup>1</sup>, E. J. H. Jones<sup>1</sup>, A. M. Estes<sup>1</sup>, B. King<sup>2</sup> and S. J. Webb<sup>1</sup>, (1)*University of Washington*, (2)*University of Washington and Children's Hospital and Regional Medical Center*
- 3:00 **76 111.076**  
Hope and Worry in Mothers of Children with Autism and Down Syndrome. P. Ogston\*<sup>1</sup>, B. Myers<sup>1</sup> and V. H. Mackintosh<sup>2</sup>, (1)*Virginia Commonwealth University*, (2)*University of Mary Washington*
- 2:00 **78 111.078**  
Medical Residents Knowledge of and Comfort Assessing for Autism Spectrum Disorders: A Model for Training. A. Kinsman and N. R. Powers\*, *Greenville Hospital System Children's Hospital*
- 3:00 **79 111.079**  
The Prevalence of Stunting, Underweight and Wasting Among Autistic Children in the Sultanate of Oman. Y. Al-Farsi\*<sup>1</sup>, M. Waly<sup>2</sup>, M. Al-Shafae<sup>3</sup> and M. Al-Sharbaty<sup>1</sup>, (1)*College of Medicine and Health Sciences, Sultan Qaboos University*, (2)*Sultan Qaboos University, College of Agricultural and Marine Sciences*, (3)*Sultan Qaboos University*

- 1:00 **80 111.080**  
The Social Communication Questionnaire in the General Population. M. Hornig<sup>1</sup>, S. Schölberg<sup>2</sup>, M. Bresnahan<sup>\*1</sup>, P. Surén<sup>2</sup> and A. BC Study Group<sup>1</sup>, (1)*Columbia University*, (2)*Norwegian Institute of Public Health*
- 2:00 **81 111.081**  
Traits Contributing to the Autistic Spectrum. C. D. Steer<sup>\*1</sup>, P. Bolton<sup>2</sup>, S. Roulstone<sup>3</sup>, A. M. Emond<sup>1</sup> and J. Golding<sup>1</sup>, (1)*University of Bristol*, (2)*Institute of Psychiatry, King's College London*, (3)*University of the West of England*
- 3:00 **82 111.082**  
Unfolding of Social Communication and Repetitive Movements Over the Second and Third Years of Life in Children with Autism Spectrum Disorder. W. Guthrie<sup>\*1</sup>, L. Morgan<sup>1</sup>, A. B. Barber<sup>2</sup>, C. Schatschneider<sup>3</sup>, C. Lord<sup>4</sup> and A. M. Wetherby<sup>3</sup>, (1)*FSU Autism Institute, Florida State University*, (2)*University of Alabama*, (3)*Florida State University*, (4)*University of Michigan*
- 1:00 **83 111.083**  
Asperger Syndrome in Marriage and Parenthood. W. Y. P. Lau<sup>\*</sup> and C. C. Peterson, *The University of Queensland*
- 2:00 **84 111.084**  
Circumscribed Attention and Social Salience in Infants at Risk for Developing ASD. A. Nair<sup>\*1</sup>, N. Sasson<sup>2</sup>, S. Paterson<sup>3</sup>, J. Letzen<sup>1</sup> and R. T. Schultz<sup>1</sup>, (1)*Children's Hospital of Philadelphia*, (2)*University of Texas at Dallas*, (3)*University of Pennsylvania and Children's Hospital of Philadelphia*
- 3:00 **85 111.085**  
Detection of Autism in Infants with Fragile X Syndrome. J. Roberts<sup>\*</sup>, L. McDonald and B. Kelleher, *Barnwell College, University of South Carolina*
- 1:00 **86 111.086**  
Development of Early Social Communicative Abilities in Toddlers with Autism Spectrum Disorder (ASD). S. Van der Paelt<sup>\*</sup>, M. Dereu, M. Meirsschaut, R. Raymaekers, I. Schietecatte, P. Warreyn and H. Roeyers, *Ghent University*
- 2:00 **87 111.087**  
Differences Between English- and Spanish-Speaking Mothers' Report On Toddlers' Profiles in the Modified Checklist for Autism in Toddlers (M-CHAT). N. M. Reyes<sup>\*1</sup>, M. A. Patriquin<sup>1</sup>, A. Scarpa<sup>1</sup>, V. Desai<sup>2</sup> and K. Kerkering<sup>3</sup>, (1)*Virginia Tech*, (2)*Carilion Pediatric Clinic*, (3)*Pediatric Neurodevelopmental Clinic*
- 3:00 **88 111.088**  
Effects of Contingency On Social Visual Engagement in Typically-Developing Infants. P. Lewis<sup>\*1</sup>, J. B. Northrup<sup>2</sup>, J. Paredes<sup>1</sup>, W. Jones<sup>2</sup> and A. Klin<sup>1</sup>, (1)*Yale University School of Medicine*, (2)*Yale School of Medicine*
- 1:00 **89 111.089**  
Identifying Atypical Development in Children Aged 12 to 36 Months. R. L. Young<sup>\*</sup>, P. Williamson, G. Bradshaw and G. Choimes, *Flinders University*
- 2:00 **90 111.090**  
Immediate Imitation in Infants at Low- and Heightened-Risk for Autism. N. M. Kurtz<sup>\*1</sup>, R. H. Wozniak<sup>1</sup> and J. M. Iverson<sup>2</sup>, (1)*Bryn Mawr College*, (2)*University of Pittsburgh*
- 3:00 **91 111.091**  
Innovative Partnership for Education and Research of Autism Spectrum Disorder (ASD). E. Giarelli<sup>\*1</sup> and J. Ruttenberg<sup>2</sup>, (1)*University of Pennsylvania*, (2)*Center for Autism*
- 1:00 **92 111.092**  
Is There a Difference in the Amount of Direct Eye Contact in 3-Month-Old Infants Later Classified with ASD Compared to Unaffected Infants?. M. M. Abdullah<sup>\*1</sup>, P. A. Filipek<sup>2</sup>, P. L. Horner<sup>3</sup> and J. T. Phan<sup>3</sup>, (1)*University of California, Irvine*, (2)*University of Texas Health Sciences Center at Houston*, (3)*UCI School of Medicine*
- 2:00 **93 111.093**  
Temper, Breast-Feeding and the Mother's Early Experience of Taking Care of a Child Later Diagnosed with Autism: A Follow-up Study in the Danish National Birth Cohort. S. Lemcke<sup>\*1</sup>, E. Parner<sup>2</sup> and M. B. Lauritsen<sup>3</sup>, (1)*Aarhus University Hospital*, (2)*University of Aarhus*, (3)*Regional Centre for Child and Adolescent Psychiatry, Aarhus University Hospital*
- 3:00 **94 111.094**  
The Development of Adaptive Skills in Young Children with ASD -- An Examination Across One Year Using Vineland-II. N. Huai<sup>\*1</sup>, S. Ellis Weismer<sup>2</sup> and C. E. Ray-Subramanian<sup>1</sup>, (1)*Waisman Center, University of Wisconsin-Madison*, (2)*University of Wisconsin-Madison*
- 1:00 **95 111.095**  
A Comparison of Prospective and Retrospective Methods for Measuring Regression. S. Ozonoff<sup>\*1</sup>, A. M. Iosif<sup>1</sup>, F. Baguio<sup>1</sup>, I. Cook<sup>2</sup>, M. M. Hill<sup>3</sup>, T. Hutman<sup>4</sup>, S. Rogers<sup>5</sup>, A. Rozga<sup>6</sup>, S. Sangha<sup>5</sup>, M. Sigman<sup>4</sup>, M. B. Steinfield<sup>1</sup> and G. S. Young<sup>1</sup>, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*M.I.N.D. Institute*, (3)*M.I.N.D. Institute, University of California at Davis Medical Center*, (4)*University of California, Los Angeles*, (5)*UC Davis, M.I.N.D. Institute*, (6)*UCLA*
- 2:00 **96 111.096**  
A Synthesis of Existing Systematic Reviews Examining Interventions for Children and Adolescents with Autism Spectrum Disorder. D. B. Nicholas<sup>\*1</sup> and R. MacCulloch<sup>2</sup>, (1)*University of Calgary*, (2)*The Hospital for Sick Children*
- 3:00 **97 111.097**  
Autism Diagnostic Observation Schedule- Generic (ADOS-G) with Typical Children: Evaluating Diagnostic Validity. N. L. Tanel<sup>\*1</sup> and V. Smith<sup>2</sup>, (1)*Bloorview Kids Rehab*, (2)*University of Alberta*
- 1:00 **98 111.098**  
Characteristics of False Positives on the ADI-R in An Adult Sample. K. S. Branch<sup>\*1</sup>, D. N. Johnson<sup>1</sup>, L. J. Lawer<sup>1</sup>, M. A. McCarthy<sup>1</sup>, L. A. Plummer<sup>1</sup>, E. S. Brodtkin<sup>1</sup> and D. S. Mandell<sup>2</sup>, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*
- 2:00 **99 111.099**  
Comparison of a Broad-Based Screen Versus Disorder-Specific Screen in Detecting Young Children with An Autism Spectrum Disorder. L. D. Wiggins<sup>\*1</sup>, V. Piazza<sup>2</sup> and D. L. Robins<sup>2</sup>, (1)*Centers for Disease Control and Prevention*, (2)*Georgia State University*
- 3:00 **100 111.100**  
Developmental Profile of Infants with Autism. R. Maxim<sup>\*1</sup>, E. Judd<sup>2</sup>, L. Middleton<sup>2</sup>, L. Eversmayer<sup>2</sup>, P. Deutsch<sup>2</sup>, S. Stewart<sup>1</sup>, A. Nay<sup>1</sup>, J. Dorfman<sup>3</sup>, J. Pan<sup>1</sup> and H. Matsuo<sup>1</sup>, (1)*Saint Louis University*, (2)*Cardinal Glennon Children's Medical Center*, (3)*Washington University in St. Louis*
- 1:00 **101 111.101**  
Developmental Trajectories of Signs of Autism Spectrum Disorder (ASD) in Infants and Toddlers with ASD, Developmental Delay or Typical Development. M. Dereu<sup>\*</sup>, M. Meirsschaut, R. Raymaekers, I. Schietecatte, S. Van der Paelt, P. Warreyn and H. Roeyers, *Ghent University*

# Program

- 2:00 **102 111.102**  
Early Intervention for Children with Autism and Their Families: A Randomised Control Study of Child and Parent Outcomes of Home and Centre Based Programmes. D. M. Costley\*, *Autism Spectrum Australia (Aspect)*
- 3:00 **103 111.103**  
Enhanced Visual Contrast Sensitivity in Infant Siblings of Children with Autism Spectrum Disorders (ASD). K. R. Dobkins\*, L. J. Carver<sup>2</sup>, E. Price<sup>2</sup> and N. Akshoomoff<sup>1</sup>, (1)*University of California, San Diego*, (2)*UC San Diego*
- 1:00 **104 111.104**  
Sensory Disorders for Individuals with ASD: Preferences for Black Vs White Rooms. M. Boman\* and G. R. Mancil<sup>2</sup>, (1)*Kelly Autism Program at Western Kentucky University*, (2)*University of Louisville*
- 2:00 **105 111.105**  
The Effect of Birth Order On Cognitive Ability and Symptom Severity in Children with Autism. J. G. Giles\*, E. M. Griffith<sup>1</sup>, M. W. Gower<sup>1</sup>, E. H. Sheridan<sup>1</sup>, T. Perez<sup>1</sup>, R. A. Barry<sup>2</sup> and N. Adams<sup>1</sup>, (1)*University of Alabama at Birmingham*, (2)*The Warren Alpert Medical School of Brown University*
- 3:00 **106 111.106**  
The Relation Between Demographic Factors and Parental Well-Being in Parents Raising Toddlers with Early Autism Symptomatology. G. A. Levine\*, A. H. Brown<sup>1</sup>, A. S. Nahmias<sup>1</sup>, P. Yoder<sup>1</sup>, A. S. Carter<sup>2</sup>, D. S. Messinger<sup>3</sup> and W. L. Stone<sup>4</sup>, (1)*Vanderbilt University*, (2)*University of Massachusetts Boston*, (3)*University of Miami*, (4)*Vanderbilt Kennedy Center*

## Poster Sessions

### 111 Social Function

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **107 111.107**  
Pain Expression in Youth with ASD: Thematic Analysis of Parent Interviews. L. Goodman\*, N. F. Bandstra, K. Kalousek and S. A. Johnson, *Dalhousie University*
- 2:00 **108 111.108**  
Parent-Child Interactions and Their Relation to Friendship Quality in Children with and without Autism: An Analysis of Joint Attention and Responsiveness. S. E. Meek\*, L. T. Robinson and L. B. Jahromi, *Arizona State University*
- 3:00 **109 111.109**  
Predictors of Parental Self-Efficacy in Parents Raising Adolescents with ASDs. M. D. Lerner\*, F. Martinez-Pedraza<sup>2</sup>, N. Chae<sup>1</sup> and A. S. Carter<sup>2</sup>, (1)*University of Virginia*, (2)*University of Massachusetts Boston*
- 1:00 **110 111.110**  
Preferences for Activities Embedded in a Social and Non-Social Context in Boys with High Functioning Autism Spectrum Disorder. M. C. Goldberg\*, M. J. Allman<sup>1</sup>, M. M. Triggs<sup>2</sup>, M. A. Frank-Crawford<sup>3</sup>, A. B. Carreau<sup>3</sup>, S. H. Mostofsky<sup>1</sup>, K. Slifer<sup>1</sup>, M. Cataldo<sup>1</sup>, M. B. Denckla<sup>4</sup>, L. Hagopian<sup>1</sup> and I. G. DeLeon<sup>1</sup>, (1)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*, (2)*Kennedy Krieger Institute, University of Maryland, Baltimore County*
- 2:00 **111 111.111**  
Reliability and Validity of a Japanese of a Scale to Assist the Diagnosis of Autism Spectrum Disorders in Adults. K. Matsumoto\*, K. J. Tsuchiya<sup>1</sup>, M. Tsujii<sup>2</sup>, R. A. Ritvo<sup>3</sup> and E. R. Ritvo<sup>4</sup>, (1)*Hamamatsu University School of Medicine*, (2)*Chukyo University*, (3)*Yale University School of Medicine*, (4)*UCLA School of Medicine, Professor Emeritus*
- 3:00 **112 111.112**  
Screening for Autism Spectrum Disorders: A Re-Examination of the SCQ and SRS. M. Huerta\*, C. Lord<sup>1</sup> and E. Petkova<sup>2</sup>, (1)*University of Michigan*, (2)*NYU Child Study Center*
- 1:00 **113 111.113**  
Social Responsiveness and Maternal Emotional Connectedness Predictors in Autism. M. Wheatley\* and D. E. Wille<sup>2</sup>, (1)*University of Kentucky*, (2)*Indiana University Southeast*
- 2:00 **114 111.114**  
Symptomatic Predictors of Adaptive Functioning in Children with ASD. E. H. Sheridan\*, M. W. Gower, M. K. McCalla, E. M. Griffith and F. J. Biasini, *University of Alabama at Birmingham*
- 3:00 **115 111.115**  
Validation of a Peer Interaction Measure of Social Behavior for Children and Adolescents with Autism. C. Schwartz\*, H. A. Henderson<sup>2</sup> and P. C. Mundy<sup>3</sup>, (1)*Yale University*, (2)*University of Miami*, (3)*UC Davis*
- 1:00 **116 111.116**  
Visual Recognition of Social and Nonsocial Stimuli in Young Children with Autism Spectrum Disorders. J. Bradshaw\*, F. Shic and K. Chawarska, *Yale University School of Medicine*
- 2:00 **117 111.117**  
New Perspectives On Joint Attention in Children with Autism and Their Siblings. P. C. Mundy\*, *UC Davis*
- 3:00 **118 111.118**  
Pilot Study of a Peer-Enacted Role Play Measure of Social Skills for Adolescents with High-Functioning Autism and Asperger Syndrome. A. B. Ratto\*, D. L. Penn<sup>2</sup>, L. Turner-Brown<sup>1</sup> and G. B. Mesibov<sup>1</sup>, (1)*UNC-Chapel Hill*, (2)*University of North Carolina*
- 1:00 **119 111.119**  
Positive Affect in Infant Siblings of Children Diagnosed with Autism Spectrum Disorder. J. H. Filliter\*, J. C. P. Longard<sup>2</sup>, L. Zwaigenbaum<sup>3</sup>, J. Brian<sup>4</sup>, I. M. Smith<sup>5</sup>, W. Roberts<sup>6</sup>, P. Szatmari<sup>7</sup> and S. E. Bryson<sup>8</sup>, (1)*Dalhousie University*, (2)*Concordia University*, (3)*University of Alberta*, (4)*Hospital for Sick Children & Bloorview Kids Rehab*, (5)*Dalhousie University & IWK Health Centre*, (6)*University of Toronto*, (7)*McMaster University*, (8)*Dalhousie University/IWK Health Centre*
- 2:00 **120 111.120**  
Practice Models to Facilitate Participation of Children with ASD in Home, School & Community Activities. D. Sood\*, C. Zingerevich<sup>2</sup> and C. Schranz<sup>1</sup>, (1)*Governors State University*, (2)*Rady Children's Hospital*
- 3:00 **121 111.121**  
Relationship Between Individual Differences in Social Motivation and Autism Symptom Severity. A. M. Rowley\*, J. S. Durocher, M. N. Hale, A. J. Margol, A. Gutierrez and M. Alessandri, *University of Miami*
- 1:00 **122 111.122**  
Reliability and Validity of the Pervasive Developmental Disorder(PDD) ASJ Rating Scale(PARS). M. Tsujii\* and I. Tani<sup>2</sup>, (1)*Chukyo University*, (2)*Hamamatsu University School of medicine*
- 2:00 **123 111.123**  
Sexual Well-Being of High Functioning Adults with AUTISM Spectrum Disorders. S. Nichols\*, S. Byers<sup>2</sup>, S. Voyer<sup>2</sup> and G. Reilly<sup>1</sup>, (1)*Advantage Care Diagnostic and Treatment Center*, (2)*University of New Brunswick*
- 3:00 **124 111.124**  
The Relation Between Self-Regulation and Social Competence with Peers Among Children with Autism. L. B. Jahromi\*, S. E. Meek and L. T. Robinson, *Arizona State University*

- 1:00 **125 111.125**  
The Use of New ADOS Diagnostic Algorithms in Young Children with Williams Syndrome. F. van der Fluït\*, K. M. Janke, E. K. Erdmann and B. P. Klein-Tasman, *University of Wisconsin, Milwaukee*
- 2:00 **126 111.126**  
The Validity of the Social Communication Questionnaire in Adults with Autism Spectrum Disorders and Intellectual Disability. W. T. Brooks\* and B. A. Benson, *Ohio State University Nisonger Center*
- 3:00 **127 111.127**  
Mothers' Affective Responses to High- and Low-Risk Infants During Face-to-Face Interaction: Effects of Infant Risk-Status and Age. S. F. Hannigen\*<sup>1</sup>, N. J. Minshew<sup>2</sup> and M. S. Strauss<sup>1</sup>, (1)*University of Pittsburgh*, (2)*University of Pittsburgh School of Medicine*
- 1:00 **128 111.128**  
Parasympathetic Response Profiles and Adaptive Functioning in Young Children with Autistic Disorder. S. J. Sheinkopf\*<sup>1</sup>, R. A. Barry<sup>1</sup> and A. R. Neal<sup>2</sup>, (1)*The Warren Alpert Medical School of Brown University*, (2)*University of Texas at Austin*
- 2:00 **129 111.129**  
Parental Self-Efficacy & Child Depression Predict Inflated Social Self-Perceptions in Adolescents with ASDs. M. L. Ransone, M. D. Lerner\* and A. Y. Mikami, *University of Virginia*
- 3:00 **130 111.130**  
Parenting Stress as a Moderator of the Association Between Observed ASD Symptomatology and Related Parent-Reported Child Behaviors. S. Celimli\*<sup>1</sup>, K. K. Lyons<sup>1</sup>, C. J. Grantz<sup>1</sup>, P. J. Yoder<sup>2</sup>, W. L. Stone<sup>3</sup>, A. S. Carter<sup>4</sup> and D. S. Messinger<sup>1</sup>, (1)*University of Miami*, (2)*Vanderbilt University*, (3)*Vanderbilt Kennedy Center*, (4)*University of Massachusetts Boston*
- 1:00 **131 111.131**  
Parents' and Child Health Professionals' Attitudes to Dietary Interventions in Autism Spectrum Disorder (ASD): Findings From a UK Survey. A. Le Couteur\*<sup>1</sup>, J. Charlton<sup>2</sup>, E. Winburn<sup>3</sup>, A. Cutress<sup>2</sup>, S. Adams<sup>4</sup>, E. McColl<sup>2</sup>, H. McConachie<sup>2</sup>, J. Parr<sup>2</sup>, G. Baird<sup>5</sup>, P. Gringras<sup>5</sup>, A. O'Hare<sup>6</sup>, D. C. Wilson<sup>6</sup> and A. J. Adamson<sup>2</sup>, (1)*Newcastle University*, (2)*Institute of Health and Society, Newcastle University*, (3)*Tees, Esk and Wear Valley Trust*, (4)*Northumbria Healthcare NHS Trust*, (5)*Guy's Hospital*, (6)*Edinburgh University*
- 2:00 **132 111.132**  
Performance by Children with ASD, Developmental Delay, and Typical Development On Delayed Non-Matched to Sample Task. D. Herman\*<sup>1</sup>, C. Maas<sup>1</sup>, R. Landa<sup>1</sup> and A. Diamond<sup>2</sup>, (1)*Kennedy Krieger Institute*, (2)*University of British Columbia*
- 3:00 **133 111.133**  
Self-Perception, Theory of Mind, and Psychopathology in Youths with and without Autism Spectrum Disorders. K. Kalousek\*, S. Whitzman, K. Strapps and S. A. Johnson, *Dalhousie University*
- 1:00 **134 111.134**  
The Relationship Between Intelligence and Teacher Ratings of Social Skills for Children with Autism. R. Aiello\* and L. A. Ruble, *University of Kentucky*
- 2:00 **135 111.135**  
The Relationship of Receptive and Expressive Social Skills to Social Outcomes in Children with Attention-Deficit/Hyperactivity Disorder and Autism Spectrum Disorders. C. Demopoulos\* and A. Davis, *Alexian Brothers Neurosciences Institute*

## Poster Sessions

### 111 Treatment

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **136 111.136**  
A Protocol for the Disclosure of a Diagnosis of Autism by Professionals: Parent's Recommendations for Best Practice. D. W. Mruzek, E. Hebert, J. Yingling, H. Brown, C. M. Dambra and L. Hiley\*, *University of Rochester Medical Center*
- 2:00 **137 111.137**  
Behavioural and Physiological Effects of Weighted Vests for Children with Autism. S. Hodgetts\*, J. Magill-Evans and J. Misiaszek, *University of Alberta*
- 3:00 **138 111.138**  
Child Attachment Behaviors Increase in Response to a Parent-Mediated Intervention: Initial Results From a Clinical Trial in Autism. M. R. Swanson\*<sup>1</sup>, M. Siller<sup>2</sup>, T. Hutman<sup>3</sup> and M. Sigman<sup>3</sup>, (1)*Graduate Center of the City University of New York, Hunter College of the City University of New York*, (2)*Hunter College of the City University of New York*, (3)*University of California, Los Angeles*
- 1:00 **139 111.139**  
Comparative Analysis of IMFAR Sample Sizes in Support of the National Database for Autism Research. D. Hall\*<sup>1</sup>, J. Chung<sup>2</sup> and G. Navidi<sup>1</sup>, (1)*National Institute of Mental Health, National Institutes of Health*, (2)*Georgetown University Medical School*
- 2:00 **140 111.140**  
Demystifying Moderators and Mediators in IDD Research. C. A. Farmer\*, *Ohio State University*
- 3:00 **141 111.141**  
Development and Implementation of the RUPP Parent Training Program for Children with Autism Spectrum Disorders. E. Butter\*<sup>1</sup>, C. Johnson<sup>2</sup> and B. Handen<sup>3</sup>, (1)*Ohio State University*, (2)*University of Pittsburgh*, (3)*Univ of Pittsburgh School of Medicine*
- 1:00 **142 111.142**  
Dyslipidemia in Male Patients with High-Functioning Autism. H. Matsuzaki\*<sup>1</sup>, K. Iwata<sup>2</sup>, S. Suda<sup>2</sup>, K. J. Tsuchiya<sup>2</sup>, K. Suzuki<sup>2</sup>, K. Nakamura<sup>2</sup>, M. Tsujii<sup>3</sup>, N. Takei<sup>2</sup> and N. Mori<sup>2</sup>, (1)*Osaka University School of Medicine*, (2)*Hamamatsu University School of Medicine*, (3)*Chukyo University*
- 2:00 **143 111.143**  
Effect of Intrathecal Baclofen On Severe Tactile Defensiveness and Symptoms of Autism Spectrum Disorder. R. S. Farid\*, R. Nevel and F. Murdock, *University of Missouri*
- 3:00 **144 111.144**  
Evaluation of a Sibling-Mediated Imitation Intervention for Young Children with Autism. K. Meyer\* and B. Ingersoll, *Michigan State University*
- 1:00 **145 111.145**  
Farm Community-Based Intervention Model in Adult Subjects with Autistic Spectrum Disorder: Not Only "After Us". A. Narzisi\*<sup>1</sup>, M. Venturi<sup>2</sup>, M. Innocenti<sup>2</sup>, F. Suvini<sup>2</sup>, S. Bini<sup>2</sup>, G. Genchi<sup>2</sup> and U. Caselli<sup>2</sup>, (1)*University of Pisa - Stella Maris Scientific Institute*, (2)*AGRABAH - Associazione Genitori per l'Autismo*
- 2:00 **146 111.146**  
Generating Individualized, Evidence-Based Treatment Recommendations: The Example of PECS. P. J. Doehring\*<sup>1</sup> and B. Reichow<sup>2</sup>, (1)*Children's Hospital of Philadelphia*, (2)*Yale Child Study Center*

# Program

- 3:00 **147 111.147**  
Infant Siblings of Children with Autism: Results of a Parent-Child Intervention. A. M. Steiner\*<sup>1</sup>, G. W. Gengoux<sup>2</sup> and K. Chawarska<sup>3</sup>, (1)Yale University, (2)Stanford School of Medicine, (3)Yale University School of Medicine
- 1:00 **148 111.148**  
Is PCIT An Effective Treatment for ASD?. S. F. Vess\* and A. Kinsman, Greenville Hospital System Children's Hospital
- 2:00 **149 111.149**  
Measuring and Predicting Parents' Involvement in Intensive Behavioral Intervention. A. Solish\* and A. Perry, York University
- 3:00 **150 111.150**  
Mother-Child Engagement: The Co-Construction of Narratives in Intervention Contexts for Young Children with Autism. A. M. Mastergeorge\*, University of California, Davis/M.I.N.D. Institute
- 1:00 **151 111.151**  
A Pilot Study of Group CBT Targeting Anxiety in Children with Asperger Syndrome. J. A. Weiss\*, M. A. Vecili, J. A. MacMullin, J. Summers and Y. Bohr, York University
- 2:00 **152 111.152**  
Advantages of CAI for Single Word Comprehension and Grammar Production Training. F. Hurewitz\*<sup>1</sup> and K. Boser<sup>2</sup>, (1)Drexel University, (2)Individual Differences in Learning, Inc
- 3:00 **153 111.153**  
Assessing Peer-Related Social Interest in Preschool-Aged Children with Autism. G. G. McGee\* and M. J. Morrier, Emory Autism Center, Emory University School of Medicine
- 1:00 **154 111.154**  
Children's Friendship Training, Play Date Improvement and Generalization to School for Children with Autism Spectrum Disorders. F. Frankel\* and R. Myatt, UCLA Semel Institute for Neuroscience & Human Behavior
- 2:00 **155 111.155**  
Efficacy of Methylphenidate Treatment in Children with Asperger Syndrome and ADHD Comorbidity. C. Porfirio, G. Giana\*, A. Benvenuto, B. Manzi, S. Benedetti and P. Curatolo, Tor Vergata University
- 3:00 **156 111.156**  
Examining the Use of Multiple Cues as a Necessary Component of Pivotal Response Training. S. Reed\*<sup>1</sup>, A. Stahmer<sup>2</sup>, J. Suhrheinrich<sup>1</sup> and L. Schreibman<sup>1</sup>, (1)University of California, San Diego, (2)Rady Children's Hospital
- 1:00 **157 111.157**  
How to Develop An Effective Intervention through the Participatory Research Process: A Case Example in An Executive Functioning Intervention in High-Functioning Autism Spectrum Disorders. L. G. Anthony\*<sup>1</sup>, L. Cannon<sup>2</sup>, K. Alexander<sup>2</sup>, M. A. Werner<sup>2</sup>, K. Register Brown<sup>1</sup>, J. Rutledge<sup>1</sup>, J. Wintrol<sup>3</sup> and L. Kenworthy<sup>4</sup>, (1)Children's National Medical Center, George Washington University Medical School, (2)Ivymount School, (3)The Ivymount School, (4)Children's National Medical Center
- 2:00 **158 111.158**  
Identifying the Active Ingredients in Intensive Behavioural Intervention Programs for Children with Autism. A. Perry\* and J. Koudys, York University
- 3:00 **159 111.159**  
Integrating Treatment Strategies for Children with Autism. A. B. Cunningham\*<sup>1</sup>, L. Schreibman<sup>1</sup> and A. Stahmer<sup>2</sup>, (1)University of California, San Diego, (2)Rady Children's Hospital
- 1:00 **160 111.160**  
Investigation of the RUPP Parent Training Program for Pre-School Children with ASDs and Disruptive Behavior. K. Bearss\*<sup>1</sup>, L. Scahill<sup>2</sup>, C. Johnson<sup>3</sup>, B. Handen<sup>4</sup> and T. Smith<sup>5</sup>, (1)Yale Child Study Center, (2)Yale University School of Medicine, (3)University of Pittsburgh, (4)Univ of Pittsburgh School of Medicine, (5)University of Rochester
- 2:00 **161 111.161**  
Parent Stress Related to Infants at-Risk for Autism Spectrum Disorder. G. W. Gengoux\*<sup>1</sup>, A. M. Steiner<sup>2</sup> and K. Chawarska<sup>3</sup>, (1)Stanford School of Medicine, (2)Yale University, (3)Yale University School of Medicine
- 3:00 **162 111.162**  
Potential Behavioral Precursors to Autism Spectrum Disorders in NICU Graduates. J. M. Gardner\*, B. Z. Karmel, I. L. Cohen, P. M. Kittler, E. M. Lennon, L. D. Swensen, R. L. Freedland, M. J. Flory and E. London, NYS Institute for Basic Research in Developmental Disabilities
- 1:00 **163 111.163**  
Training-the-Trainer: An Effectiveness Study of Pivotal Response Training in School Settings. J. Suhrheinrich\* and L. Schreibman, University of California, San Diego
- 2:00 **164 111.164**  
Use of a Social Behavioral Intervention to Improve Sleep. B. Goodlin-Jones\*, K. Tang and T. F. Anders, M.I.N.D. Institute, University of California at Davis Medical Center
- 3:00 **165 111.165**  
Advancing Social-Communication and Play in Preschoolers with Autism: Initial Findings From a Classroom-Based Intervention. B. Boyd\*<sup>1</sup>, L. Watson<sup>1</sup>, T. W. Lenhardt<sup>1</sup>, J. Dykstra<sup>1</sup>, K. Berry<sup>1</sup>, G. T. Baranek<sup>1</sup>, E. R. Crais<sup>1</sup> and S. Odom<sup>2</sup>, (1)University of North Carolina at Chapel Hill, (2)University of North Carolina
- 1:00 **166 111.166**  
Asperger Male Teens' Use of Relaxation Strategies and Selection Preferences: Which Strategies for Which Stressors?. D. S. McLeod\* and D. A. Lucci, Massachusetts General Hospital
- 2:00 **167 111.167**  
Assessing the Impact of Pivotal Response Training (PRT) Group Therapy On Parenting Stress and Empowerment Levels. M. B. Minjarez\*<sup>1</sup>, E. M. Mercier<sup>2</sup>, S. E. Williams<sup>1</sup> and A. Y. Hardan<sup>1</sup>, (1)Stanford University School of Medicine/Lucile Packard Children's Hospital, (2)Durham University
- 3:00 **168 111.168**  
Behavioral Flexibility in Autism and Asperger Disorder: The Impact of Intervention On Child, Parent, and Family Functioning. C. E. Lin\*, R. L. Koegel and L. K. Koegel, University of California, Santa Barbara
- 1:00 **169 111.169**  
Developing Innovative Ways to Measure and Communicate Autonomic Arousal in Autism Spectrum Disorders. M. S. Goodwin\*, Massachusetts Institute of Technology
- 2:00 **170 111.170**  
Early Communication Correlates of Language Development and Autism Symptomatology in Toddlers at-Risk for ASD. C. J. Grant\*<sup>1</sup>, K. K. Lyons<sup>1</sup>, S. Celimli<sup>1</sup>, P. Yoder<sup>2</sup>, W. L. Stone<sup>3</sup>, A. S. Carter<sup>4</sup> and D. S. Messinger<sup>1</sup>, (1)University of Miami, (2)Vanderbilt University, (3)Vanderbilt Kennedy Center, (4)University of Massachusetts Boston



- 3:00 **171 111.171**  
Early Intervention for Children with Autism: Which Factors Impact Service Approval?. R. M. Seijo\*, L. H. Shulman, M. D. Valicenti-McDermott, K. Hottinger, T. Fried, D. J. Meringolo and N. Tarshis, *Albert Einstein College of Medicine*
- 1:00 **172 111.172**  
Effect of Lenalidomide On TNF-Alpha Elevation and Behavior in Autism. M. Chez\*, T. Donnell, C. Parise and R. Low, *Sutter Neuroscience Institute, Sacramento Medical Center*
- 2:00 **173 111.173**  
Efficacy of An Outpatient Social Skills Training for Individuals with ASD and Their Parents. S. Woolsey Duvall\*, D. Hill, B. Lopez, M. Moriarta and N. Mody, *University of New Mexico*
- 3:00 **174 111.174**  
First Year Intervention for Infants at Risk for Autism – Initial Feasibility and Acceptance. S. Ahmed\*<sup>1</sup>, M. W. Wan<sup>1</sup>, M. Elsabbagh<sup>2</sup>, M. H. Johnson<sup>2</sup>, J. Green<sup>1</sup> and .. The BASIS Team\*<sup>3</sup>, (1)*The University of Manchester*, (2)*Birkbeck, University of London*, (3)*BASIS*
- 1:00 **175 111.175**  
Incorporating Technology Into a Pilot Cognitive Behavioral Therapy Group Treatment for Adolescents with High Functioning Autism Spectrum Disorders. A. Blakeley-Smith\*<sup>1</sup>, J. Reaven<sup>2</sup>, E. Leuthe<sup>2</sup>, K. Culhane-Shelburne<sup>1</sup>, E. Moody<sup>3</sup> and S. Hepburn<sup>2</sup>, (1)*JFK Partners, University of Colorado Denver School of Medicine*, (2)*University of Colorado Denver School of Medicine*, (3)*University of Colorado Denver, Anschutz Medical Campus*
- 2:00 **176 111.176**  
Psychosocial Treatment Effects of the PEERS Social Skills Intervention for Young Adults with Autism. A. Gantman\*<sup>1</sup>, S. Kapp<sup>2</sup> and E. Laugeson<sup>1</sup>, (1)*UCLA Semel Institute for Neuroscience & Human Behavior*, (2)*UCLA*
- 1:00 **178 111.178**  
Social and Pre-Linguistic Behavior in Infants at Risk of ASD Improves Following Behavioral Intervention. L. K. Koegel\*, *University of California, Santa Barbara*

Friday May 21 – AM				
6:30-5:00P	Registration (Registration One Lvl 5)			
7:00-8:00A	Coffee & Pastries (Grand Ballroom Pre-Function Lvl 5)			
8:00A-1:00P	Innovation Technologies Demonstration Session (Franklin Hall 2 Lvl 4)			
8:00-8:15A 8:15-9:15A	Introduction: Autism Speaks (Grand Ballroom AF Lvl 5) Keynote: Barbara Burns: "Adopting Evidence-Based Practice for Children with Autism: What Will it Take?"		8:00-1:00P Poster & Exhibits (Franklin Hall B Lvl 4) Clinical Phenotype, Repetitive Behaviors, Motor Systems, Human Genetics, Brain Imaging & Services Innovative Technologies Demonstration	
9:15-9:45A	Break (Franklin Hall B Lvl 4)			
9:45-11:45A	IES: What Really Matters: Measuring Outcomes and Addressing the Needs of Adolescents and Adults with ASD (Grand Ballroom F Lvl 5)			
9:45-11:45A	Oral Session: Cognition 2 Grand Ballroom E Lvl 5	Oral Session: Model Systems (Grand Ballroom AB Lvl 5)		Oral Session: Social Function (Grand Ballroom CD Lvl 5)
11:45-1:00P	Lunch Break			
12:00-1:00P	SIG: Interventions for School-Age Children (Grand Ballroom E Lvl 5)	SIG: Sensory Dysfunction (Grand Ballroom AB Lvl 5)	SIG: Motor Action Development (Grand Ballroom CD Lvl 5)	

### Keynote Address

#### 112 Adopting Evidence-Based Practice for Children with Autism: What Will It Take?

8:15 AM - 9:15 AM - Grand Ballroom A-F Level 5

Speaker: B. Burns; Duke University

### Invited Educational Symposium

#### 113 What Really Matters: Measuring Outcome and Addressing the Needs of Adolescents and Adults with ASD

9:45 AM - 11:45 AM - Grand Ballroom F Level 5

Moderator: P. Howlin; Institute of Psychiatry

This symposium addresses current and past trends in assessing variously defined outcomes in adolescents and adults with ASD. Autism-specific features, comorbid psychopathology, independent living skills, family resources, and demographic variables come together to influence outcome after the childhood years. Moving beyond categorical diagnoses and standard measures of functioning such as IQ, we discuss measurement issues related to diverse dimensions of impairment and success, as well as subsequent service provision for individuals with ASD and their families.

9:45 **113.001**

The Transition to Adulthood for Individuals with ASD and their Families. J. L. Taylor\*, Vanderbilt Kennedy Center

10:15 **113.002**

Incorporating Family and Demographic Variables in Outcome and Intervention Research. T. Carr\*, University of Michigan

10:45 **113.003**

The Developing Phenotype: Measuring ASD Features Beyond Childhood. S. L. Bishop\*, Cincinnati Children's Hospital Medical Center

11:15 **113.004**

Assessment and Treatment of Co-occurring Psychopathology. K. Gotham\*, University of Michigan

### Oral Sessions

#### 114 Cognition 2

9:45 AM - 11:45 AM - Grand Ballroom E Level 5

9:45 **114.001**

Can the Raven's Progressive Matrices Intelligence Test Be Solved by Thinking in Pictures?. M. Kunda\*, K. McGreggor and A. K. Goel, Georgia Institute of Technology

10:00 **114.002**

Effectiveness and Relevance of a Reading Intervention as a Function of Students' Characteristics for High-Functioning Students with Autism Spectrum Disorder. C. Roux\*, E. Dion, D. Landry and M. S. Arcand, University of Quebec in Montreal

10:15 **114.003**

Multisensory Processing of Emotion Expression in Autism and Asperger Syndrome. G. Charbonneau<sup>1</sup>, O. Collignon<sup>1</sup>, M. Nassim<sup>2</sup>, M. Lassonde<sup>1</sup>, L. Mottron<sup>2</sup>, F. Lepore<sup>1</sup> and A. Bertone<sup>\*2</sup>, (1)Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Canada, (2)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)

10:30 **114.004**

Cognition and Social Behaviour in Adults with Asperger Syndrome. M. Stothers\* and J. Cardy, The University of Western Ontario

10:45 **114.005**

Implicit Learning Impairments in Individuals with Autism and First Degree Relatives. C. J. Smith<sup>\*1</sup>, J. M. Silverman<sup>2</sup>, C. M. Lang<sup>3</sup> and A. S. Reber<sup>4</sup>, (1)Southwest Autism Research & Resource Center, (2)Mount Sinai School of Medicine, (3)Montefiore School Health Program, (4)Graduate Center at CUNY

11:00 **114.006**

Metacognitive Awareness of Face Processing in High Functioning Autism. C. Hileman<sup>\*1</sup>, H. A. Henderson<sup>1</sup>, L. C. Newell<sup>2</sup>, M. Jaime<sup>1</sup> and P. C. Mundy<sup>3</sup>, (1)University of Miami, (2)Indiana University of Pennsylvania, (3)UC Davis

11:15 **114.007**

Object Individuation in Autism. K. O'Hearn<sup>\*1</sup>, S. Franconeri<sup>2</sup> and B. Luna<sup>1</sup>, (1)University of Pittsburgh School of Medicine, (2)Northwestern University

11:30 **114.008**

Training Children with Autism Spectrum Disorders to Pass Theory of Mind Tasks Using Thought Bubbles. J. M. Paynter\* and C. C. Peterson, The University of Queensland

## Oral Sessions

## 115 Model Systems

9:45 AM - 11:45 AM - Grand Ballroom AB Level 5

- 9:45 **115.001**  
Haploinsufficiency of Shank3 Leads to Impairments in Synaptic Transmission and Plasticity. J. D. Buxbaum\*, T. Sakurai, O. Bozdagi, X. Wang, Q. Zhou, D. Papapetrou and P. R. Hof, *Mount Sinai School of Medicine*
- 10:00 **115.002**  
Autism Models Based On Synaptic Adhesion Molecules Neurexin and Neuroligin: Molecules and Potential Treatments. C. M. Powell\*, *The University of Texas Southwestern Medical Center*
- 10:15 **115.003**  
mGluR5 and Preclinical Treatment of Fragile X Syndrome in a Mouse Model. G. Dolen\*, *Stanford University School of Medicine*
- 10:30 **115.004**  
Genetic and Functional Analyses Support a Role for CYFIP1 in Autism Spectrum Conditions. O. Bozdagi\*<sup>1</sup>, T. Sakurai<sup>1</sup>, G. Cai<sup>1</sup>, L. Ospina<sup>1</sup>, N. Takahashi<sup>1</sup>, M. Pilorge<sup>1</sup>, J. Glessner<sup>2</sup>, H. Hakonarson<sup>2</sup>, L. Pepa<sup>1</sup>, L. Soorya<sup>1</sup>, P. J. Gonzalez<sup>3</sup>, E. Manghi<sup>4</sup>, L. A. McInnes<sup>1</sup> and J. D. Buxbaum<sup>1</sup>, (1)*Mount Sinai School of Medicine*, (2)*Center for Applied Genomics*, (3)*Hospital Nacional de Niños "Dr Sáenz Herrera"*, (4)*University of Illinois at Chicago*
- 10:45 **115.005**  
Dissociation Between Sociability and Anxiety in Juvenile Balb/CJ Inbred Mice, a Model of Low Sociability. A. S. Kreibich\*, M. Torre and E. S. Brodtkin, *University of Pennsylvania*
- 11:00 **115.006**  
Deficiency of Engrailed 2 (En2) Produces Abnormal Development of Forebrain-Projecting, Monoamine Neurotransmitters Systems and Depression Related Behaviors. L. Lin\*<sup>1</sup>, P. Sonsalla<sup>1</sup>, P. G. Matteson<sup>2</sup>, J. L. Silverman<sup>3</sup>, J. N. Crawley<sup>3</sup>, J. H. Millonig<sup>2</sup> and E. DiCicco-Bloom<sup>1</sup>, (1)*Robert Wood Johnson Medical School*, (2)*UMDNJ-Robert Wood Johnson Medical School*, (3)*National Institute of Mental Health, National Institutes of Health*
- 11:15 **115.007**  
Long-Lasting Behavioral Interaction Between Perinatal PBDE Exposure and *Mecp2*<sup>208/+</sup> Mutation. R. O. Vallero<sup>1</sup>, M. S. Golub<sup>1</sup>, J. K. Suarez<sup>1</sup>, R. Woods<sup>2</sup>, T. A. Ta<sup>1</sup>, A. L. George<sup>1</sup>, I. N. Pessah<sup>1</sup>, R. F. Berman<sup>1</sup> and J. M. LaSalle\*<sup>1</sup>, (1)*University of California at Davis*, (2)*University of California at Davis*
- 11:30 **115.008**  
The Timing of Prenatal Immune Challenge Determines the Extent of White Matter Microstructural Anomalies Relevant to Autism. G. M. McAlonan\*<sup>1</sup>, Q. Li<sup>1</sup>, C. Cheung<sup>1</sup>, R. Wei<sup>1</sup>, V. Cheung<sup>2</sup>, E. S. K. Hui<sup>1</sup>, P. Wong<sup>3</sup>, S. E. Chua<sup>1</sup> and E. X. Wu<sup>1</sup>, (1)*University of Hong Kong*, (2)*Hong Kong Polytechnic University*, (3)*Cornell University*

## Oral Sessions

## 116 Social Function

9:45 AM - 11:45 AM - Grand Ballroom CD Level 5

- 9:45 **116.001**  
Compensatory Strategies in Locating Referential Object in Children with ASD: The Contribute of An Eye-Tracker Paradigm. R. Fadda\*<sup>1</sup>, G. Doneddu<sup>2</sup>, T. Striano<sup>3</sup>, A. Chessa<sup>4</sup>, A. Salvago<sup>2</sup>, G. Frigo<sup>2</sup> and A. Liberati<sup>5</sup>, (1)*University of Sheffield*, (2)*Azienda Ospedaliera Brotzu*, (3)*Hunter College*, (4)*Linkalab, Complex Systems Computational Laboratory*, (5)*University of Cagliari*
- 10:00 **116.002**  
Heterogeneity in Presentation Among Children with Higher Functioning Autism: The Influence of Internalizing/Externalizing Behaviors On Self-Regulatory Behaviors. L. Mohapatra\*<sup>1</sup>, H. A. Henderson<sup>1</sup>, K. E. Ono<sup>1</sup>, C. Hileman<sup>1</sup>, N. Kojkowski<sup>1</sup>, M. Jaime<sup>1</sup> and P. C. Mundy<sup>2</sup>, (1)*University of Miami*, (2)*UC Davis*
- 10:15 **116.003**  
Leader-Follower Dynamics of Adult-Child Vocal Interaction in Autism Spectrum Disorder. A. S. Warlaumont\*<sup>1</sup>, D. K. Oller<sup>1</sup>, R. Dale<sup>1</sup>, J. Gilkerson<sup>2</sup>, J. A. Richards<sup>2</sup> and D. Xu<sup>2</sup>, (1)*The University of Memphis*, (2)*LENA Foundation*
- 10:30 **116.004**  
Object-Directed Exploratory Behavior in Toddlers with ASD, DD, and TD. S. Macari\* and K. Chawarska, *Yale University School of Medicine*
- 10:45 **116.005**  
The MANIFESTATION of CORE Features of ASD in African-American and Latino CHILDREN. A. Hall\*<sup>1</sup>, R. K. Abramson<sup>2</sup>, S. Ravan<sup>2</sup>, M. L. Cuccaro<sup>3</sup>, J. Gilbert<sup>4</sup>, M. Pericak-Vance<sup>4</sup> and H. H. Wright<sup>2</sup>, (1)*Univ. S. Carolina Sch. Public Health*, (2)*University of South Carolina School of Medicine*, (3)*University of Miami*, (4)*University of Miami Miller School of Medicine*
- 11:00 **116.006**  
Oxytocin Increases Empathic Accuracy in Healthy Adults Who Endorse Traits of Autism. J. Bartz\*<sup>1</sup>, J. Zaki<sup>2</sup>, N. Ludwig<sup>1</sup>, A. Kolevzon<sup>1</sup>, N. Bolger<sup>2</sup>, E. Hollander<sup>3</sup> and K. Ochsner<sup>2</sup>, (1)*Seaver Autism Center for Research and Treatment*, (2)*Columbia University*, (3)*Albert Einstein College of Medicine*
- 11:15 **116.007**  
Development of a Method to Study Brain Mechanisms for Emotion Regulation During Social Exclusion and Rule Violation in Autism. D. Bolling\*, N. Pitskel, K. A. Pelphrey and M. J. Crowley, *Yale University*
- 11:30 **116.008**  
Moderating Effect of Temperament On the Relation Between Symptom Severity and Age of First Parental Concern: A Retrospective Study. K. E. Ono\*<sup>1</sup>, H. A. Henderson<sup>1</sup>, L. Mohapatra<sup>1</sup>, C. Hileman<sup>1</sup>, N. Kojkowski<sup>1</sup>, M. Jaime<sup>1</sup> and P. C. Mundy<sup>2</sup>, (1)*University of Miami*, (2)*UC Davis*

## Poster Sessions

### 117 Innovative Technologies Demonstration Session

8:00 AM - 1:00 PM - Franklin Hall 2 Level 4

**18 117.001**

Male Teens with Asperger's Syndrome and Nonverbal Learning Disorder Learn about Stress and Its Physiological Signs. D. A. Lucci\* and D. S. McLeod, *Massachusetts General Hospital*

**21 117.002**

Virtual Reality Based Social Interaction for Children with Autism: Implications for Physiological Response. U. Lahiri\*, K. C. Welch, Z. Warren and N. Sarkar, *Vanderbilt University*

**2 117.003**

Visualizing Multi-Syllabic Speech with Computers for Language Therapy. J. Hailpern\*, K. Karahalios<sup>2</sup>, L. DeThorne<sup>1</sup>, J. Halle<sup>1</sup> and J. Lohrens<sup>1</sup>, (1)*University of Illinois at Urbana Champaign*, (2)*University of Illinois at Urbana-Champaign*

**23 117.004**

Cold Probe Testing Tools for Autism Center. R. Lin\*, G. D. Abowd<sup>1</sup>, R. Arriaga<sup>1</sup> and A. Shillingsburg<sup>2</sup>, (1)*Georgia Institute of Technology*, (2)*Marcus Autism Center, Children's Healthcare of Atlanta*

**24 117.005**

An Investigation of Parent's Ability to Report Problem Behavior. N. Nazneen<sup>1</sup>, Y. Han<sup>1</sup>, R. Arriaga<sup>1</sup>, G. D. Abowd\*, N. Call<sup>2</sup> and A. Findley<sup>2</sup>, (1)*Georgia Institute of Technology*, (2)*Marcus Autism Center*

**25 117.006**

Automatic Classification of Parent-Infant Social Games From Videos. P. Wang\*, T. L. Westeyn<sup>1</sup>, G. D. Abowd<sup>1</sup> and J. Rehg<sup>2</sup>, (1)*Georgia Institute of Technology*, (2)*Georgia Tech*

**17 117.007**

A Mobile Social Compass. M. Tentori\*, L. Boyd<sup>2</sup> and G. R. Hayes<sup>3</sup>, (1)*University of California, Irvine (UCI)*, (2)*North Orange County Special Education Local Plan Area*, (3)*University of California, Irvine*

**5 117.008**

Demonstration of a Collaborative Interface to Promote Positive Social Interaction Skills for Children with Autistic Spectrum Disorder (ASD). E. Gal\*, N. Bauminger<sup>2</sup>, M. Zancanaro<sup>3</sup>, D. Tomasini<sup>3</sup> and P. L. Weiss<sup>1</sup>, (1)*University of Haifa*, (2)*Bar Ilan University*, (3)*Bruno Kessler Foundation*

**20 117.009**

Wireless, in-Situ Measurement of Electrodermal Activity During Occupational Therapy. E. Hedman\*, M. L. J. Miller<sup>2</sup>, M. S. Goodwin<sup>3</sup> and R. W. Picard<sup>3</sup>, (1)*Massachusetts Institute of Technology, The Media Laboratory*, (2)*Sensory Processing Disorder Foundation*, (3)*Massachusetts Institute of Technology*

**15 117.010**

Enhancing Motivation through Computer-Assisted Instructional Practices. C. Whalen\*, *TeachTown*

**7 117.011**

Investigating the Role of Lateral Gaze and Peripheral Vision in Atypical Gaze at Human Faces with Children with ASD During Naturalistic Social Interactions. A. G. Billard\*, B. Noris<sup>1</sup>, F. Ansermet<sup>2</sup> and J. Nadel<sup>3</sup>, (1)*EPFL, Ecole Polytechnique Federale de Lausanne*, (2)*University Hospital of Geneva*, (3)*CNRS and the University Pierre & Marie Curie, Pitie-Salpetriere*

**1 117.012**

The Use of Ipod Technology as An Alternative and Augmentation Communication Device for Children with Autism. G. R. Mancil\*, *University of Louisville*

**3 117.013**

Using Social Mirrors to Teach Conversation Skills to People with Social Skill Deficits. T. Bergstrom\*, K. Karahalios<sup>1</sup>, M. Dixon<sup>2</sup> and S. Wayland<sup>2</sup>, (1)*University of Illinois at Urbana-Champaign*, (2)*University of Maryland*

**13 117.014**

Comparison of Child-Human and Child-Computer Interactions for Children with ASD. M. P. Black\*, E. Flores<sup>2</sup>, E. Mower<sup>1</sup>, S. Narayanan<sup>1</sup> and M. E. Williams<sup>3</sup>, (1)*University of Southern California*, (2)*USC University Center for Excellence in Developmental Disabilities at Childrens Hospital Los Angeles*, (3)*Keck School of Medicine, University of Southern California*

**12 117.015**

Training Social Problem Solving Skills in Adolescents with High Functioning Autism Spectrum Disorders (HFASD). F. A. Boujarwah\*, H. Hong<sup>1</sup>, J. Isbell<sup>2</sup>, R. Arriaga<sup>1</sup>, G. D. Abowd<sup>1</sup> and L. J. Heflin<sup>2</sup>, (1)*Georgia Institute of Technology*, (2)*Georgia State University*

**26 117.016**

A Demonstration Measurement System Relevant to Autism Risk and Symptomatology: Continuous Non-Expert Ratings of Infant and Parent Emotion. D. S. Messinger\*, J. K. Baker<sup>2</sup>, S. M. Chow<sup>3</sup> and J. D. Haltigan<sup>1</sup>, (1)*University of Miami*, (2)*University of Wisconsin-Madison*, (3)*University of North Carolina*

**4 117.017**

Embedding Focused Interests Into Computer-Mediated Autism Interventions. R. R. Morris\*, C. R. Kirschbaum and R. W. Picard, *Massachusetts Institute of Technology*

**8 117.018**

Eyes up: Interactive Tangible-Digital Puzzles for Learning about Eyes. M. Eckhardt\*, M. S. Goodwin and R. W. Picard, *Massachusetts Institute of Technology*

**9 117.019**

Results From An RCT of FaceSay Software Games. C. Wimsatt\*, *Symbionica, LLC*

**10 117.020**

Eliciting Social-Cognitive Behaviors in Children with ASD Using a Novel Interactive Animated Character. C. Samango-Sprouse\*, C. Lathan<sup>2</sup>, K. Boser<sup>3</sup>, L. Georganna<sup>4</sup> and J. Hodgins<sup>5</sup>, (1)*George Washington University*, (2)*AnthroTronix, Inc.*, (3)*Individual Differences in Learning, Inc*, (4)*WALT DISNEY PARKS & RESORTS*, (5)*Carnegie Mellon University*

**28 117.021**

Interactive Autism Network (IAN): Towards An Efficient and Responsive Online Research Infrastructure. P. Law\*, C. A. Cohen and J. K. Law, *Kennedy Krieger Institute*

**6 117.022**

Enhancing Social Interaction through Story-Telling Among High-Functioning Children with Autism. E. Gal\*, P. L. Weiss<sup>1</sup>, L. Lamash<sup>1</sup> and N. Bauminger<sup>2</sup>, (1)*University of Haifa*, (2)*Bar-Ilan University*

**16 117.023**

Randomized Study of Web-Based Teacher Coaching. R. A. Johnson\*, L. A. Ruble<sup>1</sup>, J. H. McGrew<sup>2</sup> and L. A. Jung<sup>1</sup>, (1)*University of Kentucky*, (2)*Indiana University - Purdue University Indianapolis*

**22 117.024**

Understanding the Context of Stereotypical Behaviors. N. Nazneen\*, F. A. Boujarwah, A. Mogus, S. Sadler, M. Habibulla, G. D. Abowd and R. Arriaga, *Georgia Institute of Technology*

**19 117.025**

Self-Monitoring with Handheld Computers by Teens with High Functioning Autism/Asperger's Syndrome in Mainstream Settings. M. Levine<sup>\*1</sup>, K. Hearsey<sup>2</sup>, G. Mesibov<sup>2</sup> and R. J. Calvanio<sup>3</sup>, (1)*SymTrend, Inc.*, (2)*University of North Carolina at Chapel Hill*, (3)*Massachusetts General Hospital*

**11 117.026**

Rachel: An Embodied Conversational Agent for Eliciting and Analyzing Emotional Interactions in Children with Autism. E. Mower<sup>\*1</sup>, E. Flores<sup>2</sup>, M. P. Black<sup>1</sup>, M. E. Williams<sup>3</sup> and S. Narayanan<sup>1</sup>, (1)*University of Southern California*, (2)*USC University Center for Excellence in Developmental Disabilities at Childrens Hospital Los Angeles*, (3)*Keck School of Medicine, University of Southern California*

**4 117.027**

Design and Evaluation of Interactive, Customizable and Extensible Speech Enabled Games as Speech Therapy for Kids with Autism. M. E. Hoque<sup>\*</sup>, M. S. Goodwin, R. E. Kaliouby and R. W. Picard, *Massachusetts Institute of Technology*

**27 117.028**

National Database for Autism Research (NDAR): From Database to Network. G. Navidi<sup>\*</sup>, D. Hall, M. F. Huerta, K. Mead and E. Stanton, *National Institute of Mental Health, National Institutes of Health*

**Poster Sessions****118 Brain Imaging**

8:00 AM - 1:00 PM - Franklin Hall B Level 4

**9:00 100 118.100**

Alterations in Brain Volume and White Matter Microstructure Predict Symptoms of Autism in Angelman Syndrome. S. U. Peters<sup>\*1</sup>, C. A. Bacino<sup>2</sup>, T. L. Merkley<sup>3</sup>, Z. Chu<sup>2</sup>, R. Yallampalli<sup>2</sup>, P. Adapa<sup>2</sup>, E. Traipe<sup>2</sup>, J. V. Hunter<sup>2</sup> and E. A. Wilde<sup>2</sup>, (1)*Vanderbilt University*, (2)*Baylor College of Medicine*, (3)*Brigham Young University*

**10:00 101 118.101**

Amygdala, Hippocampus, and Delayed Memory Impairments in Autism. J. S. Southwick<sup>\*1</sup>, E. D. Bigler<sup>1</sup>, M. B. DuBray<sup>2</sup>, A. Froelich<sup>2</sup>, A. L. Alexander<sup>3</sup>, N. Lange<sup>4</sup> and J. E. Lainhart<sup>2</sup>, (1)*Brigham Young University*, (2)*University of Utah*, (3)*University of Wisconsin*, (4)*Harvard University*

**11:00 102 118.102**

Anatomical Phenotyping in a Neuroligin3 Mouse Model of Autism Using Magnetic Resonance Imaging. J. Ellegood<sup>\*</sup>, J. P. Lerch and R. M. Henkelman, *The Hospital for Sick Children*

**9:00 103 118.103**

Association of Primary Sensorimotor White Matter Abnormalities with Anomalous Patterns of Motor Learning in Children with Autism. D. Crocetti<sup>\*1</sup>, P. Srinivasan<sup>1</sup>, J. Izawa<sup>2</sup>, R. Shadmehr<sup>2</sup> and S. H. Mostofsky<sup>3</sup>, (1)*Kennedy Krieger Institute*, (2)*Johns Hopkins University*, (3)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*

**10:00 104 118.104**

Behavioral Correlation with Hemispheric Structural Connectivity in Autism. N. Adluru<sup>\*1</sup>, K. M. Dalton<sup>2</sup>, T. Graupner<sup>2</sup>, A. L. Alexander<sup>2</sup> and R. J. Davidson<sup>2</sup>, (1)*University of Wisconsin-Madison*, (2)*University of Wisconsin*

**11:00 105 118.105**

Construction of a Stereotaxic DTI Atlas with Full Diffusion Tensor Information for Studying White Matter Maturation From Childhood to Adolescence Using Tractography-Based Segmentations. J. S. Verhoeven<sup>\*1</sup>, C. A. Sage<sup>1</sup>, A. Leemans<sup>2</sup>, W. Van Hecke<sup>1</sup>, D. Callaert<sup>1</sup>, R. Peeters<sup>1</sup>, P. De Cock<sup>1</sup>, L. Lagae<sup>1</sup> and S. Sunaert<sup>1</sup>, (1)*University Hospitals of the Catholic University of Leuven*, (2)*University Medical Center Utrecht*

**9:00 106 118.106**

Corticocortical and Thalamocortical Resting State Sensory Area Correlations Are Atypical in Autism. I. Soulières<sup>\*1</sup>, E. B. Barbeau<sup>1</sup>, S. Whitfield-Gabrieli<sup>2</sup>, L. Mottron<sup>1</sup> and T. A. Zeffiro<sup>3</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Massachusetts Institute of Technology*, (3)*Neural Systems Group, Massachusetts General Hospital*

**10:00 107 118.107**

Disrupted Network Differentiation in Autism: An fMRI Study of Intrinsic Brain Activity in Children. A. Di Martino<sup>\*1</sup>, C. Kelly<sup>1</sup>, R. Grzadzinski<sup>1</sup>, M. Mairena<sup>1</sup>, L. Q. Uddin<sup>2</sup>, C. Lord<sup>3</sup>, F. X. Castellanos<sup>1</sup> and M. P. Milham<sup>1</sup>, (1)*NYU Child Study Center*, (2)*Stanford University*, (3)*University of Michigan*

**11:00 108 118.108**

Functional Integrity of Dorsal and Ventral Visual Streams in Children with Autism. M. R. Pennick<sup>\*</sup>, H. D. Deshpande and R. K. Kana, *University of Alabama at Birmingham*

**9:00 109 118.109**

Functional Neuroimaging of Cognitive Flexibility in Autism. A. M. D'Cruz, M. W. Mosconi, M. E. Ragozzino, L. Ankeny and J. A. Sweeney<sup>\*</sup>, *University of Illinois at Chicago*

**10:00 110 118.110**

Heart Rate Variability and Brain Function During Emotional Face and Voice Processing in Autism. K. M. Dalton<sup>\*1</sup>, N. Adluru<sup>2</sup> and R. J. Davidson<sup>1</sup>, (1)*University of Wisconsin*, (2)*University of Wisconsin-Madison*

**11:00 111 118.111**

Heschl's Gyrus and Planum Temporale Volume in Autism: Does Morphology Reflect Language Function?. M. B. DuBray<sup>\*1</sup>, N. Lange<sup>2</sup>, E. D. Bigler<sup>3</sup>, P. T. Fletcher<sup>1</sup>, K. M. Maasberg<sup>1</sup>, A. L. Froelich<sup>1</sup>, A. L. Alexander<sup>4</sup> and J. E. Lainhart<sup>1</sup>, (1)*University of Utah*, (2)*Harvard University*, (3)*Brigham Young University*, (4)*University of Wisconsin*

**9:00 112 118.112**

Longitudinal Surface Morphometry Changes in Children with Autism. D. S. Hong<sup>\*1</sup>, N. J. Minshew<sup>2</sup>, M. S. Keshavan<sup>3</sup> and A. Y. Hardan<sup>4</sup>, (1)*Stanford University*, (2)*University of Pittsburgh School of Medicine*, (3)*Harvard Medical School*, (4)*Stanford University School of Medicine/Lucile Packard Children's Hospital*

**10:00 113 118.113**

Aberrant Reward System Responsivity to Social and Non-Social Reinforcers in Autism as Revealed with Event-Related Brain Potentials and Functional MRI. G. Kohls<sup>\*1</sup>, J. Peltzer<sup>2</sup>, M. Schulte-Rüther<sup>2</sup>, B. Nehr Korn<sup>2</sup>, R. T. Schultz<sup>3</sup>, B. Herpertz-Dahlmann<sup>2</sup> and K. Konrad<sup>2</sup>, (1)*The Children's Hospital of Philadelphia*, (2)*RWTH Aachen University*, (3)*Children's Hospital of Philadelphia*

# Program

- 11:00 **114 118.114**  
Alexithymia, Metarepresentation, and the Dorsomedial Prefrontal Cortex in Autism. M. V. Lombardo\*<sup>1</sup>, B. Chakrabarti<sup>1</sup>, E. Bullmore<sup>2</sup>, S. J. Wheelwright<sup>3</sup>, M. R. C. AIMS Consortium<sup>4</sup> and S. Baron-Cohen<sup>3</sup>, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, (2)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, (3)University of Cambridge, (4)University of Cambridge; Institute of Psychiatry, King's College London; University of Oxford
- 9:00 **115 118.115**  
Applying Machine Learning Techniques to Brain Imaging Characteristics to Distinguish Between Individuals with Autism and Neurotypical Controls. S. E. Schipul\*<sup>1</sup>, S. Aryal<sup>1</sup> and M. A. Just<sup>2</sup>, (1)Center for Cognitive Brain Imaging, Carnegie Mellon University, (2)Carnegie Mellon University
- 10:00 **116 118.116**  
Atypical Patterns of Effective Connectivity with Biological Motion Processing in ASD. F. E. Pollick\*<sup>1</sup>, L. S. McKay<sup>1</sup>, P. McAleer<sup>1</sup>, D. R. Simmons<sup>1</sup> and J. Pigot<sup>2</sup>, (1)University of Glasgow, (2)University of California, Los Angeles
- 11:00 **117 118.117**  
Brain Mechanisms for Perceiving Emotional Information in Body Movement in Children with Autism. D. L. Williams\*<sup>1</sup>, E. J. Carter<sup>2</sup>, N. J. Minshew<sup>3</sup> and K. A. Pelphrey<sup>4</sup>, (1)Duquesne University, (2)Carnegie Mellon University, (3)University of Pittsburgh School of Medicine, (4)Yale University
- 9:00 **118 118.118**  
Brain Serotonin and Dopamine Transporter Bindings in Adults with Autism. K. Nakamura\*<sup>1</sup>, Y. Ouchi<sup>1</sup>, M. Tsujii<sup>2</sup>, K. J. Tsuchiya<sup>1</sup>, G. Sugihara<sup>1</sup>, Y. Iwata<sup>1</sup>, K. Suzuki<sup>1</sup>, H. Matsuzaki<sup>3</sup>, S. Suda<sup>1</sup>, T. Sugiyama<sup>4</sup>, N. Takei<sup>1</sup> and N. Mori<sup>1</sup>, (1)Hamamatsu University School of Medicine, (2)Chukyo University, (3)Osaka University School of Medicine, (4)Aichi Children's Health and Medical Center
- 10:00 **119 118.119**  
Calibrating Different MRI Scanners From Multiple Sites, and the Effect of Inter-and Intra Site Variation On Neuroimaging Data. J. Suckling\*<sup>1</sup> and M. A. Consortium<sup>2</sup>, (1)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, (2)University of Cambridge; Institute of Psychiatry, King's College London; University of Oxford
- 11:00 **120 118.120**  
Delayed Brain Activation in Autism by Intersubject Phase Correlation. J. S. Anderson<sup>1</sup>, N. Lange<sup>2</sup>, J. A. Nielsen\*<sup>1</sup>, M. A. Ferguson<sup>1</sup>, T. J. Druzgal<sup>1</sup>, A. Froehlich<sup>1</sup>, M. B. DuBray<sup>1</sup>, E. D. Bigler<sup>3</sup> and J. E. Lainhart<sup>1</sup>, (1)University of Utah, (2)Harvard University, (3)Brigham Young University
- 9:00 **121 118.121**  
Describing the BRAIN IN AUTISM IN FIVE DIMENSIONS – A MULTI-PARAMETER CLASSIFICATION APPROACH. C. Ecker\*<sup>1</sup>, A. Marquand<sup>2</sup>, J. Mourao-Miranda<sup>3</sup>, P. Johnston<sup>1</sup>, E. Daly<sup>1</sup>, M. Brammer<sup>2</sup>, C. M. Murphy<sup>1</sup>, D. Robertson<sup>2</sup>, S. C. Williams<sup>2</sup> and D. G. Murphy<sup>1</sup>, (1)Institute of Psychiatry, King's College London, (2)Institute of Psychiatry, King's College, (3)University College
- 10:00 **122 118.122**  
Disrupted Long-Range Connectivity in the Mirror Neuron System in Children with Autism Spectrum Disorders. J. D. Rudie\*<sup>1</sup>, Z. Shehzad<sup>2</sup>, N. Colich<sup>1</sup>, S. Y. Bookheimer<sup>1</sup>, M. Iacoboni<sup>1</sup> and M. Dapretto<sup>1</sup>, (1)University of California, Los Angeles, (2)Yale
- 11:00 **123 118.123**  
Functional Neuroimaging of Phonological Processing in Parents of Individuals with Autism. L. B. Wilson\*<sup>1</sup>, J. R. Tregellas<sup>1</sup>, E. Slason<sup>1</sup>, B. E. Pasko<sup>1</sup>, S. Hepburn<sup>2</sup> and D. C. Rojas<sup>1</sup>, (1)University of Colorado Denver, (2)University of Colorado Denver School of Medicine
- 9:00 **124 118.124**  
Fusiform Gyrus and Face Processing: Intrasubject Stability, Hemispheric Asymmetry, and Effective Connectivity. J. D. Herrington\*<sup>1</sup>, D. W. Grupe<sup>2</sup>, E. T. Hunyadi<sup>1</sup>, C. S. Shin<sup>1</sup>, A. H. Foss<sup>3</sup>, J. M. Taylor<sup>1</sup> and R. T. Schultz<sup>1</sup>, (1)Children's Hospital of Philadelphia, (2)University of Wisconsin-Madison, (3)University of California-Berkeley
- 10:00 **125 118.125**  
Long-Range Fronto-Parietal Connectivity Is Related to Language Abilities in Children with and without Autism Spectrum Disorders. A. A. Scott\*<sup>1</sup>, B. S. Abrahams<sup>2</sup>, A. I. Alvarez-Retuerto<sup>2</sup>, L. Sonnenblick<sup>2</sup>, D. Ghahremani<sup>2</sup>, J. Mumford<sup>2</sup>, R. A. Poldrack<sup>2</sup>, M. Dapretto<sup>2</sup>, D. H. Geschwind<sup>2</sup> and S. Y. Bookheimer<sup>2</sup>, (1)Scripps Translational Science Institute, (2)University of California, Los Angeles
- 11:00 **126 118.126**  
A MEG Study of Functional Connectivity During Preparation for Saccades in ASD. T. Kenet\*<sup>1</sup>, E. Orekhova<sup>2</sup>, H. Bharadwaj<sup>3</sup>, N. Shetty<sup>1</sup>, A. K. Lee<sup>3</sup>, M. Vangel<sup>1</sup>, M. Elam<sup>4</sup>, M. R. Herbert<sup>5</sup>, M. S. Hämäläinen<sup>1</sup> and D. S. Manoach<sup>6</sup>, (1)Massachusetts General Hospital, (2)Institute of Neuroscience and Physiology, Sahlgrenska Academy, Gothenburg University, (3)Massachusetts General Hospital-Harvard Medical School, (4)Sahlgrenska University Hospital, (5)Massachusetts General Hospital / Harvard Medical School, (6)Harvard Medical School
- 9:00 **127 118.127**  
Basal Ganglia, Amygdala and CEREBELLAR WHITE MATTER Volume and Asymmetry Differences BETWEEN AUTISM Spectrum Disorder and Typically DEVELOPING Boys. N. Shetty\*<sup>1</sup>, K. Singh<sup>2</sup>, T. Kenet<sup>1</sup>, J. Fanelli<sup>1</sup>, G. Chapman<sup>1</sup>, H. Bharadwaj<sup>2</sup>, A. Orinstein<sup>3</sup> and M. R. Herbert<sup>1</sup>, (1)Massachusetts General Hospital, (2)Massachusetts General Hospital-Harvard Medical School, (3)University of Connecticut
- 10:00 **128 118.128**  
Behavioral Assessment and Diagnosis in Multi-Centre Studies. A. M. Estes\*, University of Washington
- 11:00 **129 118.129**  
Category Representation in Autism and Unaffected Siblings. B. C. Vander Wyk\*<sup>1</sup>, C. M. Hudac<sup>1</sup>, C. Cheung<sup>1</sup>, S. M. Lee<sup>1</sup>, A. Berken<sup>1</sup>, M. R. Dillon<sup>1</sup>, C. A. Saulnier<sup>2</sup> and K. A. Pelphrey<sup>1</sup>, (1)Yale University, (2)Yale University School of Medicine
- 9:00 **130 118.130**  
Cognitive Control of Social and Non-Social Information in Autism: An fMRI Investigation. A. Sabatino\*<sup>1</sup>, A. Rittenberg<sup>2</sup>, N. Sasson<sup>3</sup>, J. W. Bodfish<sup>4</sup> and G. Dichter<sup>2</sup>, (1)University of North Carolina at Chapel Hill, (2)University of North Carolina, (3)University of Texas at Dallas, (4)University of North Carolina - Chapel Hill
- 10:00 **131 118.131**  
Corticocerebellar Resting State Correlations in Autism. T. A. Zeffiro\*<sup>1</sup>, I. Soulières<sup>2</sup>, S. Whitfield-Gabrieli<sup>3</sup> and L. Mottron<sup>2</sup>, (1)Neural Systems Group, Massachusetts General Hospital, (2)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), (3)Massachusetts Institute of Technology
- 11:00 **132 118.132**  
Database Issues and Data Quality Control in Multi-Centre Trials. A. C. Evans\* and D. L. Collins, Montreal Neurological Hospital and Institute, McGill University
- 9:00 **133 118.133**  
Default Mode Connectivity in Children with and without Autism, and Their Siblings. B. Deen\*, A. Westphal, R. J. Jou and K. A. Pelphrey, Yale University

- 10:00 **134 118.134**  
Default Network Correlates of Obsessive Compulsive Symptoms in Autism Spectrum Disorders. M. Carrasco\*, J. L. Wiggins, S. J. Peltier, S. J. Weng, K. Clancy, S. Risi, C. Lord and C. S. Monk, *University of Michigan*
- 11:00 **135 118.135**  
EEG Coherence of Adolescents with High Functioning Autism During Social Perception. M. Jaime\*<sup>1</sup>, H. A. Henderson<sup>1</sup>, C. Hileman<sup>1</sup>, L. C. Newell<sup>2</sup> and P. C. Mundy<sup>3</sup>, (1)*University of Miami*, (2)*Indiana University of Pennsylvania*, (3)*UC Davis*
- 9:00 **136 118.136**  
Empathy Deficits Associated with Alexithymia but Not Autism: Evidence From Brain Imaging. G. Bird\*<sup>1</sup>, G. Silani<sup>2</sup>, R. Brindley<sup>3</sup>, S. White<sup>4</sup>, U. Frith<sup>4</sup> and T. Singer<sup>2</sup>, (1)*Birkbeck College, University of London*, (2)*University of Zurich*, (3)*Kings College London*, (4)*University College London*
- 10:00 **137 118.137**  
Functional Activation and Connectivity of Dorsal and Ventral Attention Networks in Autism Spectrum Disorder: An fMRI Study of Visual Search. B. Keehn\*<sup>1</sup>, L. A. Brenner<sup>2</sup>, P. Shih<sup>3</sup>, A. J. Lincoln<sup>4</sup> and R. A. Müller<sup>3</sup>, (1)*San Diego State University / University of California, San Diego*, (2)*University of California, Los Angeles*, (3)*San Diego State University*, (4)*Alliant International University*
- 11:00 **138 118.138**  
Investigating White Matter Abnormalities in Autism Using Voxel Based Morphometry and Voxel Based Relaxometry. Y. Gagnon\*<sup>1</sup> and R. Nicolson<sup>2</sup>, (1)*University of Western Ontario*, (2)*The University of Western Ontario*
- 10:00 **143 118.143**  
Differences in Early Symptom Presentation Between Children with a History of Autism Who Achieve An "Optimal Outcome," and Children with Persisting Autism. M. Helt\*<sup>1</sup>, T. Dumont-Mathieu<sup>1</sup>, I. M. Eigsti<sup>1</sup>, M. L. Barton<sup>1</sup>, E. Troyb<sup>1</sup>, K. E. Tyson<sup>1</sup>, M. A. Rosenthal<sup>1</sup>, A. Orinstein<sup>1</sup>, L. Naigles<sup>1</sup>, E. A. Kelley<sup>2</sup>, M. C. Stevens<sup>3</sup>, R. T. Schultz<sup>4</sup> and D. A. Fein<sup>1</sup>, (1)*University of Connecticut*, (2)*Queen's University*, (3)*Institute of Living, Hartford Hospital / Yale University*, (4)*Children's Hospital of Philadelphia and the University of Pennsylvania*
- 11:00 **144 118.144**  
Face Processing as An Endophenotype for the ASD Population. J. L. Ward-King\*<sup>1</sup>, J. J. A. Holden<sup>2</sup> and X. Liu<sup>1</sup>, (1)*Queen's University*, (2)*ASPIRE, Queen's University*
- 9:00 **145 118.145**  
Investigating the Female Profile of Autism. V. Miller, M. A. Stokes\*, J. Manjiviona and T. Attwood, *Deakin University*
- 10:00 **146 118.146**  
Male:Female Ratio Is Related to Autism Spectrum Disorder in the Family and to Maternal Age. E. Ben Itzhak\*<sup>1</sup> and D. A. Zachor<sup>2</sup>, (1)*Ariel University Center of Samaria*, (2)*Tel Aviv University / Assaf Harofeh Medical Center*
- 11:00 **147 118.147**  
Psychopathology and Adaptive Functioning in Individuals with Autism Spectrum Disorders, First Episode Schizophrenia, and Clinical-High-Risk for Psychosis. B. E. Seymour\*<sup>1</sup>, M. Solomon<sup>2</sup>, T. A. Niendam<sup>3</sup>, J. D. Ragland<sup>4</sup>, J. H. Yoon<sup>4</sup> and C. S. Carter<sup>2</sup>, (1)*UC Davis Department of Psychiatry and Behavioral Sciences, MIND Institute, Imaging Research Center*, (2)*MIND Institute, Imaging Research Center*, (3)*UC Davis Department of Psychiatry and Behavioral Sciences, Imaging Research Center*, (4)*Imaging Research Center*
- 9:00 **148 118.148**  
Relationships Between Social Functioning Among Children with ASD and Competencies/Problem Behaviors Among Siblings. C. M. Brewton\*, K. P. Nowell, M. W. Lasala, S. Peters and R. P. Goin-Kochel, *Baylor College of Medicine*
- 10:00 **149 118.149**  
Screening for Autism Spectrum Disorders in Young Children Referred for Developmental Assessment: Guiding Efficient Assessment Practices within a Tertiary Clinic Setting. S. E. O'Kelley\*, K. Guest, S. M. Munger, K. J. Bailey, F. J. Biasini and E. M. Griffith, *University of Alabama at Birmingham*
- 11:00 **150 118.150**  
Screening the Levels of Reactive Nitrogen Species, Protein Oxidation, Lipid Oxidation and Energy Metabolite (pyruvate) in Autistic Children in Sultanate of Oman. M. M. Essa\*, M. Waly, A. Ali and A. Manickavasagan, *Sultan Qaboos University, College of Agricultural and Marine Sciences*
- 9:00 **151 118.151**  
Social Responsiveness: a Quantitative Intermediate Phenotype in Parents of Children with An Autism Spectrum Disorder. W. De la Marche\*<sup>1</sup>, I. L. J. Noens<sup>2</sup>, E. M. Scholte<sup>3</sup>, S. Vertommen<sup>1</sup> and J. Steyaert<sup>1</sup>, (1)*UPC-K.U.Leuven*, (2)*Katholieke Universiteit Leuven*, (3)*Universiteit Leiden*
- 10:00 **152 118.152**  
A Comparison of Social and Communication Skills in Autistic Children, Their Clinically Unaffected Siblings and Typically Developing Subjects: Evidence for Genetic Susceptibility. A. Berken\*<sup>1</sup>, A. Voos<sup>1</sup>, D. Sugrue<sup>1</sup>, C. A. Saulnier<sup>2</sup> and K. A. Pelphrey<sup>1</sup>, (1)*Yale University*, (2)*Yale University School of Medicine*

## Poster Sessions

### 118 Clinical Phenotype

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **139 118.139**  
Clustering of Autistic Patients Based On Pathogenetic Components. R. Sacco<sup>1</sup>, P. Curatolo<sup>2</sup>, B. Manzi<sup>2</sup>, R. Militerni<sup>3</sup>, C. Bravaccio<sup>4</sup>, C. Lenti<sup>5</sup>, M. Sacconi<sup>5</sup> and A. M. Persico\*<sup>1</sup>, (1)*Univ. Campus Bio-Medico*, (2)*Tor Vergata University*, (3)*Univ. of Naples*, (4)*University Federico II*, (5)*Univ. of Milan*
- 10:00 **140 118.140**  
Cranial Width (not Macrocephaly) Is Markedly Increased in Multiplex Autism and Predicts the Extent of Craniofacial Dysmorphology. R. E. Butler\*<sup>1</sup>, C. Lajonchere<sup>1</sup>, S. S. Nazarian-Mobin<sup>2</sup>, B. S. Chambers<sup>1</sup>, R. W. Francis<sup>3</sup>, A. R. Shell<sup>3</sup>, J. R. Cuomo<sup>4</sup>, M. M. Urata<sup>2</sup> and C. Deutsch<sup>5</sup>, (1)*Autism Speaks*, (2)*Children's Hospital Los Angeles*, (3)*Eunice Kennedy Shriver Center*, (4)*Harvard University*, (5)*Shriver Center and McLean Hospital, Harvard Medical School*
- 11:00 **141 118.141**  
Diagnosing ASD in Adults: The Use of the ADOS Module 4. A. de Bildt\*<sup>1</sup>, J. A. C. J. Bastiaansen<sup>2</sup>, H. Meffert<sup>2</sup>, S. Hein<sup>3</sup>, P. Huizinga<sup>3</sup> and R. B. Minderaa<sup>1</sup>, (1)*University Medical Center Groningen*, (2)*University of Groningen*, (3)*Lentis*
- 9:00 **142 118.142**  
Diagnosing Autism in Fragile X Syndrome with the Revised ADOS Algorithms and Severity Score. A. Harris\*, M. Losh and G. E. Martin, *University of North Carolina at Chapel Hill*

# Program

- 11:00 **153 118.153**  
Broad Autism Phenotype (BAP) - Personality Styles and Preferences in a Sample of Portuguese Families of Children with Autism Spectrum Disorders. J. Almeida\*<sup>1</sup>, S. Mougá<sup>1</sup>, R. L. Abreu<sup>1</sup>, C. Café<sup>1</sup>, T. S. Miguel<sup>1</sup>, F. Duque<sup>1</sup>, L. Lapa<sup>1</sup>, I. Lucas<sup>1</sup>, A. M. Vicente<sup>2</sup> and G. Oliveira<sup>1</sup>, (1)*Hospital Pediátrico de Coimbra*, (2)*Instituto Gulbenkian de Ciência/Instituto Nacional de Saúde Dr. Ricardo Jorge*
- 9:00 **154 118.154**  
Cholesterol Levels in Young Children with Autism and Typically Developing Controls. S. J. Spence\*, A. Thurm and S. E. Swedo, *National Institute of Mental Health, National Institutes of Health*
- 10:00 **155 118.155**  
Cognitive Profiles, Phenotypic Heterogeneity and the Severity of Symptoms in Autism Spectrum Disorder. S. Brennan\*<sup>1</sup>, E. Heron<sup>2</sup>, G. Hughes<sup>1</sup>, R. J. Anney<sup>2</sup>, M. Gill<sup>2</sup> and L. Gallagher<sup>1</sup>, (1)*Trinity College Dublin*, (2)*Trinity College Dublin, Ireland*
- 11:00 **156 118.156**  
Descriptive Analysis of Autistic Regression in Families From the Autism Genetic Resource Exchange. A. Fedele\*, V. Kustanovich, J. Furr and C. Lajonchere, *Autism Speaks*
- 9:00 **157 118.157**  
Development of a Predictive Gene Classifier for Autism Spectrum Disorders Based Upon Differential Gene Expression Profiles Between Cases and Controls. V. Hu\*, *The George Washington University Medical Center*
- 10:00 **158 118.158**  
Diagnostic Instruments for EARLY IDENTIFICATION of AUTISM Spectrum Disorders. A. Mereu\*<sup>1</sup>, M. Carta<sup>1</sup>, G. Doneddu<sup>2</sup> and R. Fadda<sup>3</sup>, (1)*A.O. Brotzu*, (2)*Azienda Ospedaliera Brotzu*, (3)*University of Sheffield*
- 11:00 **159 118.159**  
Head Circumference in the Autistic Spectrum: a Comparative Study. A. K. D. Nguyen\*<sup>1</sup>, A. A. S. Meilleur<sup>1</sup>, E. Chevrier<sup>1</sup>, R. Godbout<sup>2</sup> and L. Mottron<sup>1</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Hôpital Rivière-des-Prairies*
- 9:00 **160 118.160**  
Identification of Autism Specific Impairments through Behavioral Observation of Brief Parent-Child Interactions. S. Elmsdorp\*, R. L. Koegel and L. K. Koegel, *University of California, Santa Barbara*
- 10:00 **161 118.161**  
Language Discourse Profiles in the Broad Autism Phenotype. E. F. Dillon\*<sup>1</sup>, M. Losh<sup>2</sup>, G. Goff<sup>1</sup> and E. J. Sanders<sup>1</sup>, (1)*University of North Carolina, School of Medicine*, (2)*University of North Carolina at Chapel Hill*
- 11:00 **162 118.162**  
Maternal, but Not Paternal, Interstitial Duplications of Chromosome 15q11.2-q13 Are Associated with ASD in 9 Individuals. N. Urraca\*<sup>1</sup>, J. E. Cleary<sup>2</sup>, V. Brewer<sup>1</sup>, K. Mcvcar<sup>1</sup> and L. Reiter<sup>1</sup>, (1)*University of Tennessee Health Science Center*, (2)*The University of Memphis*
- 9:00 **163 118.163**  
Preliminary Evidence of the in Vitro Effects of BDE-47 On Innate Immune Responses in Children with Autism Spectrum Disorders. P. Ashwood<sup>1</sup>, J. Schauer<sup>2</sup>, I. N. Pessah<sup>2</sup> and J. Van de Water\*<sup>2</sup>, (1)*M. I.N.D. Institute, University of California at Davis*, (2)*University of California at Davis*
- 10:00 **164 118.164**  
Regression Histories in Young Children with Autism: Timing and Associations. S. E. Swedo\*, S. Shumway, S. J. Spence and A. Thurm, *National Institute of Mental Health, National Institutes of Health*
- 11:00 **165 118.165**  
Child Characteristics Associated with Motivational Biases and Diagnostic Stability of ASD in the First Three Years of Life. A. P. Inge\* and R. Landa, *Kennedy Krieger Institute*
- 9:00 **166 118.166**  
Defining the Characteristics of Distinct Neurological Diseases in Patients with Autism Spectrum Disorders and Epilepsy. G. Barnes\*<sup>1</sup>, C. Fu<sup>1</sup>, D. Lai<sup>2</sup> and A. Popescu<sup>2</sup>, (1)*Vanderbilt*, (2)*University of Pittsburgh*
- 10:00 **167 118.167**  
Diagnostic Yield in School-Age Children Referred for Possible ASD. C. A. Molloy\*, D. Murray, R. Akers, S. L. Bishop and P. Manning-Courtney, *Cincinnati Children's Hospital Medical Center*
- 11:00 **168 118.168**  
Elevated Urinary Levels of a Known Compound Derived From the Gut Flora in a Subgroup of Autistic Children. L. Altieri<sup>1</sup>, C. Neri<sup>2</sup>, P. Curatolo<sup>3</sup>, B. Manzi<sup>3</sup>, F. Muratori<sup>4</sup>, R. Militerni<sup>5</sup>, C. Bravaccio<sup>6</sup>, C. Lenti<sup>7</sup>, M. Saccani<sup>7</sup>, A. Urbani<sup>8</sup> and A. M. Persico\*<sup>1</sup>, (1)*Univ. Campus Bio-Medico*, (2)*IRCCS Fondazione Santa Lucia*, (3)*Tor Vergata University*, (4)*University of Pisa – Stella Maris Scientific Institute*, (5)*Il Univ. of Naples*, (6)*University Federico II*, (7)*Univ. of Milan*, (8)*University G. D'Annunzio*
- 9:00 **169 118.169**  
Evaluation of Autism Spectrum Disorders in Females with Fragile X Syndrome. M. J. Leigh\*, F. Tassone, G. Mendoza-Morales, D. Nguyen, A. Boyd, J. Brodovsky, C. Ruiz, D. Hessel and R. Hagerman, *UC Davis*
- 10:00 **170 118.170**  
Face Recognition Abilities in Children with ASD, Their Unaffected Siblings and Parents. L. Berry\*<sup>1</sup>, J. Pandey<sup>1</sup>, C. Klaiman<sup>2</sup>, K. Koenig<sup>3</sup>, J. Wolf<sup>3</sup> and R. T. Schultz<sup>1</sup>, (1)*Children's Hospital of Philadelphia*, (2)*Children's Health Council*, (3)*Yale University*
- 11:00 **171 118.171**  
Facial Phenotypes and Subgroups in Children with Autism Spectrum Disorders. K. Aldridge\*, K. K. Pope, I. D. George, C. A. Hill, T. N. Takahashi, J. H. Miles and Y. Duan, *University of Missouri*
- 9:00 **172 118.172**  
Firstborn Child with Autism Spectrum Disorder: Effect of Birth Order Relative to Unaffected Sibs. R. K. Abramson\*<sup>1</sup>, A. Hall<sup>2</sup>, S. Ravan<sup>1</sup>, M. L. Cuccaro<sup>3</sup>, J. Gilbert<sup>4</sup>, J. Haines<sup>5</sup>, M. Pericak-Vance<sup>4</sup> and H. H. Wright<sup>1</sup>, (1)*University of South Carolina School of Medicine*, (2)*Univ. S. Carolina Sch. Public Health*, (3)*University of Miami*, (4)*University of Miami Miller School of Medicine*, (5)*Vanderbilt University*
- 10:00 **173 118.173**  
Gender Differences in Symptom Presentation and Emotional Comorbidities in Higher Functioning Children with Autism. N. Kojkowski\*<sup>1</sup>, D. C. Coman<sup>1</sup>, L. Mohapatra<sup>2</sup>, C. Hileman<sup>1</sup>, K. E. Ono<sup>1</sup>, M. R. Schneider<sup>1</sup>, P. C. Mundy<sup>3</sup> and H. A. Henderson<sup>1</sup>, (1)*University of Miami*, (2)*Graduate Student*, (3)*UC Davis*
- 11:00 **174 118.174**  
Global Autism Public Health Initiative Background Report: India, Chile, and South Africa. A. Simcoe-Matthews\*, (1)*Autism Speaks Etiology Department Intern*, (2)*College of the Holy Cross*
- 9:00 **175 118.175**  
Polybrominated Diphenyl Ethers, Autism, Developmental Delay, and Immune Markers: A Pilot Study. I. Hertz-Picciotto\*<sup>1</sup>, A. Bergman<sup>2</sup>, B. Fangstrom<sup>3</sup>, P. Ashwood<sup>4</sup>, J. Van de Water<sup>1</sup>, M. Rose<sup>1</sup>, D. Bennett<sup>1</sup>, I. N. Pessah<sup>1</sup>, R. L. Hansen<sup>1</sup> and P. Krakowiak<sup>1</sup>, (1)*University of California at Davis*, (2)*Lundberg Laboratory for Cancer Research*, (3)*Stockholm University*, (4)*M.I.N.D. Institute, University of California at Davis*



- 10:00 **176 118.176**  
Rapid Assessment of Autistic Social Impairment in a Taiwanese Population. J. W. Wang<sup>\*1</sup>, L. C. Lee<sup>2</sup>, J. N. Constantino<sup>3</sup> and J. W. Hsu<sup>4</sup>, (1)*Weill Cornell Medical College*, (2)*Johns Hopkins Bloomberg School of Public Health*, (3)*Washington University School of Medicine*, (4)*Taipei Veterans General Hospital*
- 11:00 **177 118.177**  
Reciprocal Social Conversation in Children and Adolescents with ASD and Asperger Syndrome. M. N. Park<sup>\*</sup>, L. K. Koegel and R. L. Koegel, *University of California, Santa Barbara*
- Poster Sessions**  
**118 Human Genetics**  
8:00 AM - 1:00 PM - Franklin Hall B Level 4
- 11:00 **28 105.003**  
RNA-Seq Studies of Gene Expression in Fronto-Insular Cortex of Autistic Subjects Reveal Gene Networks Related to Inflammation, Development and Synaptic Function. N. Tetreault<sup>\*</sup>, *California Institute of Technology*
- 9:00 **29 118.029**  
ADI-R Profiles of Individuals with Fragile X Syndrome with and without Autism. A. McDuffie<sup>\*1</sup>, S. T. Kover<sup>1</sup> and L. Abbeduto<sup>2</sup>, (1)*University of Wisconsin*, (2)*University of Wisconsin-Madison*
- 10:00 **30 118.030**  
Epigenetic Heterogeneity of Human Chromosome 15 Duplication Syndrome Brain Samples. H. A. Scoles<sup>\*1</sup>, W. T. Powell<sup>2</sup>, A. Hogart<sup>3</sup>, K. N. Leung<sup>4</sup>, N. C. Schanen<sup>5</sup> and J. M. LaSalle<sup>1</sup>, (1)*UC Davis School of Medicine*, (2)*University of California Davis*, (3)*UC Davis*, (4)*University of California, Davis*, (5)*Nemours*
- 11:00 **31 118.031**  
CNVs in Autism Spectrum Disorder. R. Canitano<sup>\*</sup>, E. Katzaki, F. T. Papa, M. Mucciolo, A. Spanhol Rosseto, M. A. Mencarelli, M. Pollazzon, V. Uliana, V. Scandurra, F. Mari and A. Renieri, *University Hospital of Siena, Italy*
- 9:00 **32 118.032**  
Exposure to Propionic Acid Induces Autistic-Like Gene Expression Profiles in Lymphoblastoid Cell Lines From Non-Autistic Individuals. T. Sarachana<sup>\*</sup> and V. Hu, *The George Washington University Medical Center*
- 10:00 **33 118.033**  
Copy Number Variants Associated with Autism Spectrum Disorder in Extended Families. D. Salyakina<sup>\*1</sup>, H. N. Cukier<sup>1</sup>, D. Ma<sup>2</sup>, J. Jaworski<sup>3</sup>, I. Konidari<sup>1</sup>, J. Gilbert<sup>3</sup>, M. L. Cuccaro<sup>1</sup> and M. A. Pericak-Vance<sup>2</sup>, (1)*University of Miami*, (2)*Hussman Institute for Human Genomics*, (3)*University of Miami Miller School of Medicine*
- 11:00 **34 118.034**  
Exploratory Sequence Analysis of Candidate Genes for Repetitive and Restricted Behaviors in Autism. E. L. Crawford<sup>\*1</sup>, A. D. McGrew<sup>1</sup>, E. Kistner-Griffin<sup>2</sup>, N. Cox<sup>3</sup>, E. H. Cook<sup>4</sup> and J. Sutcliffe<sup>1</sup>, (1)*Vanderbilt University*, (2)*Medical University of South Carolina*, (3)*University of Chicago*, (4)*University of Illinois at Chicago*
- 9:00 **35 118.035**  
Redefining Sibling "Recurrence": Language Delays Affect 21% of Otherwise-Unaffected Siblings of ASD Probands. J. N. Constantino<sup>\*1</sup>, Y. Zhang<sup>1</sup> and P. A. Law<sup>2</sup>, (1)*Washington University School of Medicine*, (2)*Kennedy Krieger Institute*
- 10:00 **36 118.036**  
Evidence of Abnormal Folate Metabolism and DNA Hypomethylation in Mothers of Children with Autism. S. J. James<sup>\*</sup>, S. Melnyk, S. Jernigan, L. Seidel, M. Lopez, J. Fussell, T. Reid, E. Schulz, D. Gaylor and M. Cleves, *University of Arkansas for Medical Sciences*
- 11:00 **37 118.037**  
FAM120C as a Novel X-Linked Candidate Gene for Autism. A. Crepel<sup>\*</sup>, V. De Wolf, H. Peeters and K. Devriendt, *Center for Human Genetics, University of Leuven*
- 9:00 **38 118.038**  
Association STUDY of Vesicle-ASSOCIATED Membrane PROTEIN 7 VAMP7/SYBL1 Gene with Autistic PATIENTS. T. Galli<sup>1</sup>, P. Gorwood<sup>2</sup>, B. Golsé<sup>3</sup>, L. Robel<sup>3</sup> and N. Ramoz<sup>\*2</sup>, (1)*INSERM U950*, (2)*INSERM U894-Team1*, (3)*AP-HP*
- 10:00 **39 118.039**  
Elucidating the Effects of Genetic Variants On Protein Coding and Noncoding Genes in Autism. C. Hicks<sup>\*</sup>, *Loyola University Medical Center*
- 11:00 **40 118.040**  
Exon-Level Expression Profiling: Evaluation of Global Alternative Splicing in Autism, a Proof of Concept Study. R. Aldenderfer<sup>\*1</sup>, B. Han<sup>2</sup>, X. W. Chen<sup>2</sup> and Z. Talebizadeh<sup>1</sup>, (1)*Children's Mercy Hospital and University of Missouri-Kansas City*, (2)*The University of Kansas*
- 9:00 **41 118.041**  
Autism Genetic Database (AGD): Using Bioinformatics to Study the Genetics of Autism. Z. Talebizadeh<sup>\*1</sup> and G. Matuszek<sup>2</sup>, (1)*Children's Mercy Hospital and University of Missouri-Kansas City*, (2)*University of Kansas*
- 10:00 **42 118.042**  
Comparison of Human Brain Persistent Organic Pollutant Levels with Epigenetic Alterations in DNA Methylation and MeCP2. M. Mitchell<sup>1</sup>, A. L. George<sup>\*2</sup>, L. - H. Chi<sup>3</sup>, P. J. Kostynaik<sup>3</sup> and J. M. LaSalle<sup>1</sup>, (1)*UC Davis School of Medicine*, (2)*University of California at Davis*, (3)*University at Buffalo*
- 11:00 **43 118.043**  
Computational Detection of Homologous Recombination Hotspots in X-Chromosome Autism Associated Genes. A. Ard<sup>1</sup>, M. LaMadrid<sup>2</sup>, S. Bwabye<sup>2</sup>, K. Koyama<sup>2</sup> and T. Deisher<sup>\*2</sup>, (1)*University of Portland*, (2)*Sound Choice Pharmaceutical Institute*
- 9:00 **44 118.044**  
Genes Involved in Neuron Migration and Centromere-Microtubule Interaction Show Enriched Association Signal in Autism: Evidence From the Autism Genome Project. R. J. Anney<sup>\*1</sup>, E. Heron<sup>1</sup>, R. Segurado<sup>1</sup>, E. Kenny<sup>1</sup>, C. O'Dushlaine<sup>1</sup>, M. Gill<sup>1</sup> and L. Gallagher<sup>2</sup>, (1)*Trinity College Dublin, Ireland*, (2)*Trinity College Dublin*
- 10:00 **45 118.045**  
Genetic Analysis of Latent Phenotypes in Autism Spectrum Disorders. X. Q. Liu<sup>\*1</sup>, S. Georgiades<sup>2</sup>, E. Duku<sup>2</sup>, A. P. Thompson<sup>2</sup>, A. D. Paterson<sup>1</sup> and P. Szatmari<sup>2</sup>, (1)*The Hospital for Sick Children*, (2)*McMaster University*
- 11:00 **46 118.046**  
Functional Annotation of ASD Susceptibility Loci. S. R. Wadhawan<sup>\*</sup>, B. Georgi, R. Liu, S. Hannenhalli and M. Bucan, *University of Pennsylvania*
- 9:00 **47 118.047**  
Analysis of Selected mTOR Pathway Genes in ASD Families Reveals a Deletion Event in PTEN. D. Yu<sup>\*</sup>, R. L. Beauchamp, S. Haddad, R. Sasanfar, J. F. Gusella, M. J. Daly, S. L. Santangelo and V. Ramesh, *Massachusetts General Hospital*

**Poster Sessions**

**118 Motor Systems and Repetitive Behavior**

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **48 118.048**  
A Comparison of Toddlers with ASD and Typical Development: Relating Repetitive Behaviors, Early Social Communication Symptoms, and Nonverbal Skills. M. V. Pouncey\*, A. B. Barber and L. G. Klinger, *University of Alabama*
- 10:00 **49 118.049**  
Graphomotor Disorders in High-Functioning Children with Autism Spectrum Disorders. T. Hellinckx\*, H. Roeyers and H. Van Waelvelde, *Ghent University*
- 11:00 **50 118.050**  
Overt Head Turning During Contingency Learning and Gross Motor Performance of Young Infants at Risk for Autism. A. Bhat\*<sup>1</sup>, K. Downing<sup>1</sup>, J. Galloway<sup>2</sup> and R. Landa<sup>3</sup>, (1)*University of Connecticut*, (2)*University of Delaware*, (3)*Kennedy Krieger Institute*
- 9:00 **51 118.051**  
Postural Development in Infants with and without Risk for Autism Spectrum Disorders. L. Nickel\*, A. Thatcher and J. M. Iverson, *University of Pittsburgh*
- 10:00 **52 118.052**  
Reduced Sensitivity to Minimum-Jerk Biological Motion in Autism Spectrum Conditions. J. Cook\*<sup>1</sup>, A. P. Saygin<sup>2</sup>, R. Swain<sup>1</sup> and S. J. Blakemore<sup>1</sup>, (1)*University College London*, (2)*University of California*
- 11:00 **53 118.053**  
Relationship Between Postural Control and Restricted, Repetitive Behaviors in Autism Spectrum Disorders. K. Radonovich\*, K. Fournier, M. Lewis and C. Hass, *University of Florida*
- 9:00 **54 118.054**  
Repetitive Behaviors and Anxiety in Children with Autism Spectrum Disorder. M. K. DeRamus\*<sup>1</sup>, L. G. Klinger<sup>1</sup> and H. R. Harwood<sup>2</sup>, (1)*University of Alabama*, (2)*University of North Carolina at Chapel Hill*
- 10:00 **55 118.055**  
Repetitive Behaviors: A Comparison of Obsessive Compulsive Disorder with and without Autism Spectrum Disorder. L. Joseph\*<sup>1</sup>, P. Grant<sup>1</sup>, A. Thurm<sup>2</sup>, C. Corbin<sup>1</sup> and S. E. Swedo<sup>2</sup>, (1)*National Institute of Mental Health*, (2)*National Institute of Mental Health, National Institutes of Health*
- 11:00 **56 118.056**  
Specificity of Praxis Impairments in Children with Autism. L. K. MacNeil\*<sup>1</sup>, L. R. Dowell<sup>1</sup>, E. M. Mahone<sup>1</sup>, M. B. Denckla<sup>2</sup> and S. H. Mostofsky<sup>2</sup>, (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 9:00 **57 118.057**  
The Presence of Restricted and Repetitive Behaviors in Infants and Toddlers with Typical Development. J. Richler\*<sup>1</sup>, R. Luyster<sup>2</sup> and C. Lord<sup>3</sup>, (1)*Indiana University*, (2)*Children's Hospital Boston/Harvard Medical School*, (3)*University of Michigan*
- 10:00 **58 118.058**  
A Stimulating Play Situation Designed to Observe Restricted Interests and Repetitive Behaviors in Young Autistic Children. C. Jacques\*, S. Mineau, S. Ferguson, D. Cousineau and L. Mottron, *Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*
- 11:00 **59 118.059**  
Catatonia in Autism: A Case Study. H. Bozkurt\*, *Istanbul Medical Faculty*
- 9:00 **60 118.060**  
Developmental Differences in Movement Planning Among Children with ASD. K. Staples\*<sup>1</sup> and G. Reid<sup>2</sup>, (1)*University of Regina*, (2)*McGill University*
- 10:00 **61 118.061**  
Dynamical Systems Analysis of Hand Movement Organization in Autism: Association of Movement Organization with Problem-Solving and Symptom Severity. I. M. Eigsti\*, J. A. Dixon, A. B. de Marchena and M. Helt, *University of Connecticut*
- 11:00 **62 118.062**  
Longitudinal Study of Repetitive Behavior and Volumes of the Caudate and Thalamus in Children with Autism Spectrum Disorder Between 3 and 9 Years of Age. M. W. Bryan\*, A. M. Estes and S. Dager, *University of Washington*
- 9:00 **63 118.063**  
Profile and Specificity of Motor Deficits in Children with Autism Spectrum Disorder. L. J. Koenig\*<sup>1</sup>, L. R. Dowell<sup>1</sup> and S. H. Mostofsky<sup>2</sup>, (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 10:00 **64 118.064**  
Restricted and Repetitive Behaviors in Young Children with ASD: Concurrent Correlates and Predictors of Change Over a One-Year Period. C. E. Ray-Subramanian\*<sup>1</sup>, S. Ellis Weismer<sup>2</sup> and N. Huai<sup>1</sup>, (1)*Waisman Center, University of Wisconsin-Madison*, (2)*University of Wisconsin-Madison*
- 11:00 **65 118.065**  
Special Skills in Autism Spectrum Disorders Are Associated with Unique Phenotypic Characteristics. G. L. Wallace\*<sup>1</sup>, N. A. Dankner<sup>1</sup> and S. J. Webb<sup>2</sup>, (1)*National Institute of Mental Health, National Institutes of Health*, (2)*University of Washington*
- 9:00 **66 118.066**  
Specificity of Handwriting Impairments in Children with Autism Spectrum Disorder. M. Adler\*<sup>1</sup>, L. R. Dowell<sup>1</sup>, A. Apostu<sup>1</sup> and S. H. Mostofsky<sup>2</sup>, (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 10:00 **67 118.067**  
Visuomotor Skill, Simple Reaction Time and Perceptual Processing Speed in Autism. A. A. Meilleur\*<sup>1</sup>, E. B. Barbeau<sup>1</sup>, L. Mottron<sup>1</sup> and T. A. Zeffiro<sup>2</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Neural Systems Group, Massachusetts General Hospital*
- 11:00 **68 118.068**  
Analysis of Unsupported Gait in Toddlers with Autism. G. Esposito\*<sup>1</sup>, P. Venuti<sup>1</sup>, S. Maestro<sup>2</sup> and F. Muratori<sup>3</sup>, (1)*University of Trento*, (2)*I. R.C.C.S. Stella Maris*, (3)*University of Pisa – Stella Maris Scientific Institute*
- 9:00 **69 118.069**  
Direct Quantitative Measurement of Motor Coordination in Sibling Pairs Discordant for Autism: New Evidence for Motor Impairment as a Core Component of Autistic Syndromes. C. L. Hilton\*, Y. Zhang, M. White, A. Babb and J. N. Constantino, *Washington University School of Medicine*
- 10:00 **70 118.070**  
Evidence for Specificity of Anomalous Motor Learning in Autism. S. H. Mostofsky\*<sup>1</sup>, J. Izawa<sup>2</sup>, S. Penky<sup>2</sup>, M. Marko<sup>2</sup>, L. R. Dowell<sup>3</sup> and R. Shadmehr<sup>2</sup>, (1)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*, (2)*Johns Hopkins University*, (3)*Kennedy Krieger Institute*

- 11:00 **71 118.071**  
Individuals with Autism Demonstrate Circumscribed Attention During Passing Viewing of Competing Social and Non-Social Stimuli. G. Dichter\*<sup>1</sup>, A. Sabatino<sup>2</sup>, N. Sasson<sup>3</sup> and J. W. Bodfish<sup>4</sup>, (1)University of North Carolina, (2)University of North Carolina at Chapel Hill, (3)University of Texas at Dallas, (4)University of North Carolina - Chapel Hill
- 9:00 **72 118.072**  
Insistence On Sameness in Asperger Syndrome Is Related to Cortisol. M. Brosnan\*<sup>1</sup>, J. Turner-Cobb<sup>1</sup>, Z. Munro-Naan<sup>1</sup> and D. Jessop<sup>2</sup>, (1)University of Bath, (2)University of Bristol
- 10:00 **73 118.073**  
Psychomotor Profiles in Autism : a Psychomotor Observation Scale. K. Yvonne\*<sup>1</sup>, C. Chatel, M. Viellard, D. DA Fonseca and F. Poinso, Centre de Ressources Autisme
- 11:00 **74 118.074**  
Repetitive and Stereotyped Behaviors From Age 2 to Age 4: A Look at the Development of High- and Low-Level Behaviors. K. Knoch\*<sup>1</sup>, L. E. Herlihy<sup>1</sup>, E. Troyb<sup>1</sup>, T. Dumont-Mathieu<sup>1</sup>, J. Green<sup>1</sup>, M. L. Barton<sup>1</sup>, D. A. Fein<sup>1</sup> and H. Boorstein<sup>2</sup>, (1)University of Connecticut, (2)Children's Mercy Hospital
- 9:00 **75 118.075**  
Response Inhibition in Manual and Oculomotor Systems in ASD. M. W. Mosconi\*<sup>1</sup>, L. Ankeny, M. E. Ragozzino and J. A. Sweeney, University of Illinois at Chicago
- 10:00 **76 118.076**  
Visual Stereotypies in Young Children with Autism Spectrum Disorders. S. Goldman\*<sup>1</sup>, D. J. Meringolo and N. Tarshis, Albert Einstein College of Medicine
- 11:00 **82 118.082**  
Implementation of a Peer-Mentored Program for College Integration of Students with Autism. E. Abrigo\*<sup>1</sup>, F. Hurewitz and S. Vass, Drexel University
- 9:00 **83 118.083**  
Medical Care Program for Autism Spectrum Disorders Population in Madrid. L. Boada\*<sup>1</sup>, J. Romo, C. Moreno, C. Llorente and M. Parellada, Hospital General Universitario Gregorio Marañón.
- 10:00 **84 118.084**  
Autism and the Family in India: An Ethnographic Study. S. Vaidya\*<sup>1</sup>, Indira Gandhi National Open University
- 11:00 **85 118.085**  
A Preliminary Study On the Treatment Initiation of Families After Their Child Received An Initial ASD Diagnosis. S. W. Duvall\*<sup>1</sup>, B. Lopez, D. Hill and L. Parks, University of New Mexico
- 9:00 **86 118.086**  
Assessing the Role of Social Work in Interdisciplinary Autism Spectrum Diagnostic Evaluations. M. Pinkett-Davis\*<sup>1</sup>, R. Whitney, L. Kalb, C. Foster and B. H. Freedman, Kennedy Krieger Institute
- 10:00 **87 118.087**  
Association Between Caregiver Factors and the Timing of Autism Spectrum Disorders Diagnosis. T. Y. Perryman\*<sup>1</sup> and L. Watson<sup>2</sup>, (1)Vanderbilt University, (2)University of North Carolina at Chapel Hill
- 11:00 **88 118.088**  
Bullying in Children with Autism Spectrum Disorders. K. P. Nowell\*<sup>1</sup>, C. M. Brewton<sup>1</sup>, M. W. Lasala<sup>1</sup>, S. U. Peters<sup>2</sup> and R. P. Goin-Kochel<sup>1</sup>, (1)Baylor College of Medicine, (2)Vanderbilt University
- 9:00 **89 118.089**  
College Programs for Students with ASD: Predictors of Successful College Transition. J. Emmons\*<sup>1</sup>, S. McCurry<sup>1</sup>, M. Ellison<sup>2</sup>, M. R. Klinger<sup>1</sup> and L. G. Klinger<sup>1</sup>, (1)University of Alabama, (2)Marshall University
- 10:00 **90 118.090**  
Differences in Processing Time, Show Rates, and Parent Perception of Autism Related Services Subsequent to Implementation of An in-Person Intake. J. Hutchison\*<sup>1</sup>, A. Kinsman, L. Burgin and D. P. Kelly, Greenville Hospital System Children's Hospital
- 11:00 **91 118.091**  
Earliest Intervention for Young Children with Risk for Autism: What Community Providers and Families Value. E. L. Lee\*<sup>1</sup>, A. Stahmer<sup>2</sup>, K. L. Searcy<sup>1</sup> and L. Cervantes<sup>1</sup>, (1)Rady Children's Hospital, San Diego, (2)Rady Children's Hospital
- 9:00 **92 118.092**  
Immunization Beliefs and Practices Among Autism Families. P. Law<sup>1</sup>, J. K. Law\*<sup>1</sup>, R. E. Rosenberg<sup>1</sup>, C. Anderson<sup>1</sup> and C. Samango-Sprouse<sup>2</sup>, (1)Kennedy Krieger Institute, (2)George Washington University
- 10:00 **93 118.093**  
A Program Evaluation of a Social Interaction and Education Group for Youth with Asperger Syndrome. M. A. Vecili\*<sup>1</sup>, Y. Lunskey<sup>2</sup> and J. A. Weiss<sup>1</sup>, (1)York University, (2)Centre for Addiction and Mental Health
- 11:00 **94 118.094**  
A Systematic Review of the Disparities in Health Care Utilization, Expenditures, and Access for Individuals with Autism Spectrum Disorders. M. K. Tregnago\*<sup>1</sup>, University of Missouri
- 9:00 **95 118.095**  
Bullying Experiences Among Children and Youth with Autism Spectrum Disorders. M. C. Cappadocia\*<sup>1</sup>, J. A. Weiss, D. Pepler and J. M. Lyons, York University

## Poster Sessions

### 118 Services

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **77 118.077**  
A Preliminary Investigation of the Relationship Between Commitment to Philosophy and Burnout Among Teachers of Preschool Children with Autism Spectrum Disorders. D. C. Coman\*<sup>1</sup>, A. Gutierrez<sup>2</sup>, M. R. Schneider<sup>1</sup>, L. Sperry<sup>2</sup>, K. Hume<sup>3</sup>, M. Alessandri<sup>1</sup>, B. Boyd<sup>4</sup> and S. Odom<sup>5</sup>, (1)University of Miami, (2)University of Colorado Denver, (3)Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill, (4)University of North Carolina at Chapel Hill, (5)University of North Carolina
- 10:00 **78 118.078**  
An Ecological Approach to the Study of the Service Dog's Effects On the Families of Children with Pervasive Development Disorder. S. Fecteau\*<sup>1</sup>, M. Trudel and M. Maurer, Sherbrooke University
- 11:00 **79 118.079**  
Evaluation of the York University Asperger Mentorship Program. M. Ames\*<sup>1</sup>, C. A. McMorris, L. N. Hancock, J. M. Bebko and Y. U. Asperger Mentorship Program, York University
- 9:00 **80 118.080**  
Examining the Relationship Between Varying Symptom Presentation in Children with Autism Spectrum Disorder and Adjustment of Their Typically Developing Siblings. K. Greenberg\*<sup>1</sup>, A. Lian, R. Hundley and E. Hanson, Children's Hospital Boston
- 10:00 **81 118.081**  
Family Impact of Raising a Child with Autism Across Different Cultures. N. Luthra\*<sup>1</sup> and A. Perry, York University

## Program

10:00 **96 118.096**

Creating Structured Teaching Classrooms: Preliminary Evaluation of a 5 Day Training Model. J. Salt\*<sup>1</sup>, C. Flint<sup>1</sup>, K. Johnsen<sup>1</sup>, M. Winnega<sup>2</sup> and B. Leventhal<sup>3</sup>, (1)*HAVE Dreams*, (2)*University of Illinois at Chicago*, (3)*New York University & Nathan Kline Institute for Psychiatric Research*

11:00 **97 118.097**

Evaluation of Autism Ontario's Realize Community Potential Program: Short-Term and Longer-Term Stress in Parents of Individuals with An ASD. K. McFee\*<sup>1</sup>, J. H. Schroeder<sup>1</sup>, J. M. Bebko<sup>1</sup>, M. Thompson<sup>2</sup>, M. Spolestra<sup>2</sup>, K. Stoner<sup>2</sup> and L. Verbeek<sup>2</sup>, (1)*York University*, (2)*Autism Ontario*

9:00 **98 118.098**

Facilitating Caregiver Adaptation to Autism Spectrum Disorders: The Role of Perceived Control. K. Voss\*<sup>1</sup>, L. C. Lee<sup>2</sup> and B. Biesecker<sup>3</sup>, (1)*Kennedy Krieger Institute*, (2)*Johns Hopkins Bloomberg School of Public Health*, (3)*National Institutes of Health*

10:00 **99 118.099**

Parent-Teacher Concordance On the Social Responsiveness Scale for Children with a Putative Diagnosis of ASD. E. M. Reisinger\*<sup>1</sup>, M. Xie<sup>2</sup>, D. S. Mandell<sup>2</sup>, S. Shin<sup>1</sup>, A. D. Sherman<sup>2</sup> and C. M. Harker<sup>2</sup>, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*

**Friday May 21 – PM**

1:15-3:15P	IES: Future Approaches to the Psychopharmacology of Autism (Grand Ballroom F Lvl 5)			1:00-5:30P Poster & Exhibits (Franklin Hall B Lvl 4) Treatment, Neuropathology, Brain Imaging, Comorbidities, Cell Culture & Animal Models
1:15-3:15P	Oral Session: Clinical Phenotype 1 (Grand Ballroom E Lvl 5)	Oral Session: Services 1 (Grand Ballroom AB Lvl 5)	Oral Session: Epidemiology 2 (Grand Ballroom CD Lvl 5)	
3:15-3:45P	Break (Franklin Hall B Lvl 4)			
3:45-4:45P	Oral Session: Human Genetics (Grand Ballroom CD Lvl 5)	Developmental Trajectories in ASD (Grand Ballroom AB Lvl 5)	Very Early Intervention for ASD: Research Challenges & Promising Results (Grand Ballroom E Lvl 5)	Earlier Is Better & More Difficult: Opportunities & Challenges in Screening for ASD in 2nd Year of Life (Grand Ballroom F Lvl 5)
4:45-5:45P		The Role of the Corpus Callosum in Autism (Grand Ballroom AB Lvl 5)	Preschool Autism Communication Trial (Grand Ballroom E Lvl 5)	Autism Instructional Methods Study: Opportunities & Challenges for Moving Intervention into Community Settings (Grand Ballroom F Lvl 5)
6:00-7:15P	Special Presidential Lecture: Autism and Society ( Grand Ballroom AB/F Lvl 5) Keynote: Jacqui Russell: "The Red Kite Project: Entertaining Children With Autism"			

**Invited Educational Symposium**

**119 Future Approaches to the Psychopharmacology of Autism**

1:15 PM - 3:15 PM - Grand Ballroom F Level 5

*Moderator: E. Anagnostou; Bloorview Research Institute*

Current approaches to pharmacological research of ASD have included exploring phenotypic similarities between autism and other neurodevelopmental/neuropsychiatric disorders and testing medications effective in such disorders in individuals with ASD. The approach has achieved some success, especially regarding reduction of interfering behaviors. It has also faced some limitations; most notably, it has not produced significant results in treatment of core symptom domains; not generated data to support the use of medications for skill acquisition; nor contributed to our understanding of the disorder. This IES will discuss alternative approaches to neuropsychopharmacology research based on the fact that new advances in basic science provide a series of molecular targets that link to the pathophysiology of autism. The three talks will introduce the concepts of translation and back translation as they relate to clinical trials, illustrate such translation using the Fragile X story, and expand the concept of back-translation using the oxidative stress theory of autism.

- 1:15 **119.001**  
Approaches to the Neuropsychopharmacology of Autism. E. Anagnostou\*, *Bloorview Research Institute, Bloorview Kids Rehab*
- 1:55 **119.002**  
Translation in psychopharmacology research: from animal model to clinical trials; the FMR1 story. R. Carpenter\*, *Seaside Therapeutics*
- 2:35 **119.003**  
Back-translating from clinical trials to neurobiology of disease. A. Y. Hardan\*, *Stanford*

**Oral Sessions**

**120 Clinical Phenotype 1**

1:15 PM - 3:15 PM - Grand Ballroom E Level 5

- 1:15 **120.001**  
Trajectory of Early Development: ASD, Broader Phenotype, Typical Development. R. Landa<sup>1</sup>, A. Gross<sup>\*2</sup>, E. Stuart<sup>3</sup> and A. Faherty<sup>1</sup>, (1)*Kennedy Krieger Institute*, (2)*The Johns Hopkins Bloomberg School of Public Health*, (3)*Johns Hopkins Univ. School of Public Health*
- 1:30 **120.002**  
A Scale to Assist the Diagnosis of Autism Spectrum Disorders in Adults: (RAADS-R) An International Multi-Center Standardization Study. R. A. Ritvo<sup>\*1</sup>, E. R. Ritvo<sup>2</sup>, M. J. Ritvo<sup>3</sup> and D. Guthrie<sup>4</sup>, (1)*Yale University School of Medicine*, (2)*UCLA School of Medicine, Professor Emeritus*, (3)*Yale University*, (4)*UCLA School of Medicine*
- 1:45 **120.003**  
Combining Information From Multiple Sources in the Diagnosis of Autism Spectrum Disorders Using the New ADI-R Algorithms for Toddlers From 12 to 47 Months of Age. S. H. Kim<sup>\*1</sup> and C. Lord<sup>2</sup>, (1)*University of Michigan Autism and Communication Disorders Center (UMACC)*, (2)*University of Michigan*
- 2:00 **120.004**  
Diagnostic Features at Time of First Diagnosis in Young Toddlers with Autism Spectrum Disorder: Clinical Observations and Parent Report. V. P. Reinhardt\* and A. M. Wetherby, *Florida State University*
- 2:15 **120.005**  
Evaluation of the DISCO-11: Comparison to ADOS, SCQ, and Clinical Classification in Young and Low Functioning Children. J. P. W. Maljaars<sup>\*1</sup>, I. L. J. Noens<sup>2</sup>, E. M. Scholte<sup>3</sup> and I. A. van Berckelaer-Onnes<sup>1</sup>, (1)*Leiden University*, (2)*Katholieke Universiteit Leuven*, (3)*Universiteit Leiden*
- 2:30 **120.006**  
Onset Patterns Prior to 36 Months in Autism Spectrum Disorders. L. Kalb\* and R. Landa, *Kennedy Krieger Institute*
- 2:45 **120.007**  
Parental Depression Appears to Influence Reporting of Offspring ASD Symptoms. T. A. Bennett<sup>\*1</sup>, P. Szatmari<sup>2</sup>, S. Georgiades<sup>2</sup>, A. P. Thompson<sup>2</sup>, E. Duku<sup>2</sup>, S. E. Bryson<sup>3</sup>, E. Fombonne<sup>4</sup>, P. Mirenda<sup>5</sup>, W. Roberts<sup>6</sup>, I. M. Smith<sup>7</sup>, T. Vaillancourt<sup>8</sup>, J. Volden<sup>9</sup>, C. Waddell<sup>10</sup> and L. Zwaigenbaum<sup>9</sup>, (1)*Offord Centre for Child Studies, McMaster University*, (2)*McMaster University*, (3)*Dalhousie University/IWK Health Centre*, (4)*Montreal Children's Hospital*, (5)*University of British Columbia*, (6)*University of Toronto*, (7)*Dalhousie University & IWK Health Centre*, (8)*University of Ottawa*, (9)*University of Alberta*, (10)*Simon Fraser University*

Friday -PM

## Program

- 3:00 **120.008**  
Using the Childhood Autism Rating Scale (CARS) to Diagnose Autism Spectrum Disorders. C. Chlebowski\*, J. Green, M. L. Barton and D. A. Fein, *University of Connecticut*

### Oral Sessions

#### 121 Epidemiology 2

1:15 PM - 3:15 PM - Grand Ballroom CD Level 5

- 1:15 **121.001**  
Racial Disparities in Community Identification of Autism Spectrum Disorder Overtime: Metropolitan Atlanta 2000-2006. V. G. Jarquin<sup>\*1</sup>, L. D. Wiggins<sup>2</sup>, L. A. Schieve<sup>2</sup> and K. Van Naarden Braun<sup>2</sup>, (1)*CDC*, (2)*Centers for Disease Control and Prevention*
- 1:30 **121.002**  
Relationship Status Among Parents of Children with Autism Spectrum Disorders: A Population-Based Study. B. H. Freedman<sup>\*1</sup>, L. Kalb<sup>1</sup>, B. Zablotsky<sup>2</sup> and E. Stuart<sup>3</sup>, (1)*Kennedy Krieger Institute*, (2)*Johns Hopkins University, School of Public Health*, (3)*Johns Hopkins Univ. School of Public Health*
- 1:45 **121.003**  
Diagnostic Practices and Awareness of Autism Among Indian Pediatricians: A Decade of Data. T. C. Daley\*, *Westat*
- 2:00 **121.004**  
Features of Autism Spectrum Disorders Vary by Race and Ethnicity. U. Obi<sup>\*1</sup>, L. C. Lee<sup>1</sup>, K. Van Naarden Braun<sup>2</sup>, L. D. Wiggins<sup>2</sup>, C. E. Rice<sup>3</sup>, C. DiGuseppi<sup>4</sup>, J. Nicholas<sup>5</sup>, F. J. Meaney<sup>6</sup>, L. King<sup>5</sup>, J. Charles<sup>5</sup>, E. Giarelli<sup>7</sup> and M. Yeargin-Allsopp<sup>2</sup>, (1)*Johns Hopkins Bloomberg School of Public Health*, (2)*Centers for Disease Control and Prevention*, (3)*National Center on Birth Defects and Developmental Disabilities*, (4)*University of Colorado, Denver*, (5)*Medical University of South Carolina*, (6)*The University of Arizona Health Sciences Center*, (7)*University of Pennsylvania*
- 2:15 **121.005**  
Autism and Distribution of Hazardous Air Pollutants at Birth in Southern California. G. Windham<sup>\*1</sup>, G. King<sup>2</sup>, E. Roberts<sup>3</sup> and J. K. Grether<sup>3</sup>, (1)*CA Department of Public Health*, (2)*Public Health Institute*, (3)*California Department of Public Health*
- 2:30 **121.006**  
Familial Aggregation of Regression Status and ADOS Parameters Among Individuals with ASD From the AGRE Collection. R. P. Goin-Kochel<sup>\*1</sup>, A. Abbacchi<sup>2</sup>, E. Duku<sup>3</sup> and J. N. Constantino<sup>2</sup>, (1)*Baylor College of Medicine*, (2)*Washington University School of Medicine*, (3)*McMaster University*
- 2:45 **121.007**  
Prevalence of Autism Spectrum Disorder in Venezuelan Children Attending An Outpatient Facility. A Preliminary Analysis. C. Montiel-Nava\*, J. Pena, J. A. Chacin, Z. Gonzalez and V. Toledo, *La Universidad del Zulia*
- 3:00 **121.008**  
Autism in a Psychiatric Inpatient Population. L. J. Lawer<sup>\*1</sup>, K. S. Branch<sup>1</sup>, E. S. Brodtkin<sup>1</sup>, R. Gur<sup>1</sup> and D. S. Mandell<sup>2</sup>, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*

### Oral Sessions

#### 122 Services 1

1:15 PM - 3:15 PM - Grand Ballroom AB Level 5

- 1:15 **122.001**  
Presence of Quality Indicators On Autism Websites. B. Reichow<sup>\*1</sup>, J. Halpern<sup>2</sup> and F. R. Volkmar<sup>3</sup>, (1)*Yale Child Study Center*, (2)*Fordham University*, (3)*Yale School of Medicine*
- 1:30 **122.002**  
The Impact of the Popular Media On Awareness: *Aap Ki Antara*. N. Singhal\*, *Action For Autism National Research Centre for Advocacy, Research, Rehabilitation and Training (AFANCART)*
- 1:45 **122.003**  
Implementation of the Autism Diagnostic Observation Schedule by School Assessment Professionals. N. Akshoomoff<sup>\*1</sup>, C. Corsello<sup>2</sup> and L. A. Palinkas<sup>3</sup>, (1)*University of California, San Diego*, (2)*Rady Children's Hospital - San Diego*, (3)*University of Southern California*
- 2:00 **122.004**  
Effective Disclosure and Parent Reaction to ASD Diagnosis. Z. Warren<sup>\*1</sup>, J. L. Taylor<sup>2</sup> and J. L. Cordle<sup>1</sup>, (1)*Vanderbilt University*, (2)*Vanderbilt Kennedy Center*
- 2:15 **122.005**  
An Examination of the Support Needs Experienced by Families of School-Aged Children with An Autism Spectrum Disorder. H. K. Brown\*, H. Ouellette-Kuntz, D. Hunter and E. A. Kelley, *Queen's University*
- 2:30 **122.006**  
Efficacy of the Early Start Denver Model Parent Intervention for Toddlers with ASD Delivered Via Internet Technology. L. A. Vismara\* and S. J. Rogers, *M.I.N.D. Institute, University of California at Davis*
- 2:45 **122.007**  
Changes in Educational Placements for Children with Autism Spectrum Disorders (ASDs) in a Population-Based Sample in a US Metropolitan Area. M. J. Morrier<sup>\*1</sup>, C. E. Rice<sup>2</sup>, J. Baio<sup>2</sup>, S. J. Wagner<sup>1</sup> and J. Nicholas<sup>3</sup>, (1)*Emory Autism Center, Emory University School of Medicine*, (2)*National Center on Birth Defects and Developmental Disabilities*, (3)*Medical University of South Carolina*
- 3:00 **122.008**  
Education Placement of Preschool-Aged Children with Autism Spectrum Disorders. W. Jenner\*, L. Carpenter, J. Charles, L. King and J. Nicholas, *Medical University of South Carolina*

## Scientific Panels

### 123 Developmental Trajectories of Children with Autism Spectrum Disorder

3:45 PM - 4:45 PM - Grand Ballroom AB Level 5

*Organizer: S. Georgiades; McMaster University*

Many longitudinal studies in ASD have documented considerable variation in outcome, ranging from remarkable improvement in some children to a decline in others. However, these results are limited by issues such as employment of convenience sampling frames, data collection from few time points, and use of small sample sizes. More recent data suggest a new way of thinking about the developmental course of ASD, in which children are described using distinct homogeneous trajectories, rather than a single heterogeneous group. This panel presents findings from two new longitudinal studies that benefit from large sample sizes, ascertainment of inception cohorts, data acquisition at multiple time-points, use of several outcomes including social-communication symptoms and functioning and problem behaviors, and novel statistical techniques. The findings emphasize that children with ASD follow distinct trajectories both over the short and long term and that this heterogeneity in developmental course needs to be taken into account in treatment planning.

3:45 **123.001**

Developmental Course of Social Communication Symptoms and Functioning in Young Children with ASD. P. Szatmari<sup>\*1</sup>, T. A. Bennett<sup>2</sup>, S. Georgiades<sup>1</sup>, E. Duku<sup>1</sup>, S. E. Bryson<sup>3</sup>, E. Fombonne<sup>4</sup>, P. Mirenda<sup>5</sup>, W. Roberts<sup>6</sup>, I. M. Smith<sup>7</sup>, T. Vaillancourt<sup>8</sup>, J. Volden<sup>9</sup>, C. Waddell<sup>10</sup>, L. Zwaigenbaum<sup>9</sup> and A. P. Thompson<sup>1</sup>, (1)McMaster University, (2)Offord Centre for Child Studies, McMaster University, (3)Dalhousie University/IWK Health Centre, (4)McGill University, (5)University of British Columbia, (6)University of Toronto, (7)Dalhousie University & IWK Health Centre, (8)University of Ottawa, (9)University of Alberta, (10)Simon Fraser University

4:00 **123.002**

Developmental Trajectories of Internalizing and Externalizing Behaviours in Young Children with ASD. T. Vaillancourt<sup>\*1</sup>, P. Szatmari<sup>2</sup>, S. Georgiades<sup>2</sup>, E. Duku<sup>2</sup>, S. E. Bryson<sup>3</sup>, E. Fombonne<sup>4</sup>, P. Mirenda<sup>5</sup>, W. Roberts<sup>6</sup>, I. M. Smith<sup>7</sup>, J. Volden<sup>8</sup>, C. Waddell<sup>9</sup>, L. Zwaigenbaum<sup>8</sup> and A. P. Thompson<sup>2</sup>, (1)University of Ottawa, (2)McMaster University, (3)Dalhousie University/IWK Health Centre, (4)McGill University, (5)University of British Columbia, (6)University of Toronto, (7)Dalhousie University & IWK Health Centre, (8)University of Alberta, (9)Simon Fraser University

4:15 **123.003**

Longitudinal Change in Social Affect and Restricted and Repetitive Behavior Severity Using the ADOS. V. Hus<sup>\*1</sup>, K. Gotham<sup>1</sup>, A. Pickles<sup>2</sup> and C. Lord<sup>3</sup>, (1)University of Michigan Autism & Communication Disorders Center, (2)University of Manchester, (3)University of Michigan

4:30 **123.004**

Growth Trajectories of Problem Behaviors Utilizing the Aberrant Behavior Checklist. M. Maye<sup>\*1</sup>, D. K. Anderson<sup>1</sup> and C. Lord<sup>2</sup>, (1)University of Michigan Autism & Communication Disorders Center, (2)University of Michigan

## Scientific Panels

### 124 Earlier Is Better and More Difficult: Opportunities and Challenges in Screening Children for An Autism Spectrum Disorder (ASD) in the General Population During the Second Year of Life

3:45 PM - 4:45 PM - Grand Ballroom F Level 5

*Moderator: C. E. Rice; National Center on Birth Defects and Developmental Disabilities*

*Organizer: C. E. Rice; National Center on Birth Defects and Developmental Disabilities*

Recently, there have been advances in understanding the early signs of ASDs with increased public health focus on early developmental screening. The American Academy of Pediatrics now recommends that all children be screened for developmental disabilities throughout the first few years of life and for ASDs at 18 and 24 months. Despite wide consensus that "earlier is better," knowledge gaps exist in what "early" means and how this is successfully implemented in general population settings. Although several screening instruments have been developed for use in the 2nd year of life, data on their utility in general population settings are limited. Unlike families in clinically-referred or sibling research projects who may have heightened concern, families in the general population may be confronted with positive screening results before they have raised concern themselves. This panel presents the latest data on early ASD screening tools used in general population settings and explores opportunities and challenges in the during the 2nd year of life.

3:45 **124.001**

Identifying Young Children with Autism Spectrum Disorder through General Population Screening. A. M. Wetherby<sup>\*</sup>, Florida State University

4:05 **124.002**

M-CHAT Best7: A New Scoring Algorithm Improves Positive Predictive Power of the M-CHAT. D. L. Robins<sup>\*1</sup>, J. Pandey<sup>2</sup>, C. Chlebowski<sup>3</sup>, K. Carr<sup>3</sup>, J. L. Zaj<sup>4</sup>, M. Arroyo<sup>1</sup>, M. L. Barton<sup>3</sup>, J. Green<sup>3</sup> and D. A. Fein<sup>3</sup>, (1)Georgia State University, (2)Children's Hospital of Philadelphia, (3)University of Connecticut, (4)Radford University

4:25 **124.003**

Population Screening for ASD: a Comparison of M-CHAT and ESAT. J. Buitelaar<sup>\*</sup>, Karakter Child and Adolescent Psychiatry University Center

**Scientific Panels**

**129 Very Early Interventions for ASD: Research Challenges and Promising Results**

3:45 PM - 4:45 PM - Grand Ballroom E Level 5

*Moderator:* A. Wagner; *National Institute of Mental Health*

*Organizer:* A. Wagner; *National Institute of Mental Health*

It has been shown that many children with ASD can be reliably identified by two years of age. It is generally accepted that early intervention takes advantage of brain plasticity in early development, but there is a need for empirical evidence of the efficacy of such interventions. This panel presents three early intervention studies from the NIH-funded Studies to Advance Autism Research and Treatment (STAART) Centers that address this need. Results will be presented from a pilot pharmacology trial for children ages 30 – 58 months (Sikich et al), a nursery-school based intervention with children ages 23 – 33 months (Landa et al), and a home-based intervention for 18- to 30-month-olds (Dawson et al). In the context of describing their studies and results, the investigators will discuss the special design and measurement challenges encountered when conducting treatment studies in toddlers and very young children, and the ways in which they each addressed those challenges. Ann Wagner, Ph.D., Chair of the NIH Autism Coordinating Committee, will introduce each of the studies and discuss implications.

- 4:45 **129.001**  
A Feasibility Study of Year-Long Placebo-Controlled Fluoxetine Treatment in Young Children with Autism. L. Sikich\*<sup>1</sup>, E. Hollander<sup>2</sup>, E. Anagnostou<sup>3</sup>, K. G. Lapp<sup>4</sup>, T. C. Bethea<sup>5</sup>, L. Soorya<sup>6</sup>, L. Sullivan<sup>7</sup>, D. Hirtz<sup>8</sup> and A. Wagner<sup>9</sup>, (1)*University of North Carolina*, (2)*Albert Einstein College of Medicine*, (3)*Bloorview Research Institute, Bloorview Kids Rehab*, (4)*University of North Carolina, Chapel Hill*, (5)*University of North Carolina, Chapel Hill*, (6)*Mount Sinai School of Medicine*, (7)*Boston University*, (8)*National Institutes of Health*, (9)*National Institute of Mental Health*
- 5:05 **129.002** Short and Longer Term Outcomes for Toddlers with ASD Enrolled in Early Intervention. R. Landa\*<sup>1</sup>, A. Faherty<sup>1</sup> and E. Stuart<sup>2</sup>, (1)*Kennedy Krieger Institute*, (2)*Johns Hopkins Univ. School of Public Health*
- 5:25 **129.003** The Early Start Denver Model: Moderators of Response to An Early Intervention for Toddlers with Autism Spectrum Disorder. G. Dawson\*<sup>1</sup>, S. J. Rogers<sup>2</sup>, J. Munson<sup>3</sup>, M. Smith<sup>3</sup>, J. Winter<sup>3</sup>, J. Greenson<sup>3</sup>, A. Donaldson<sup>4</sup> and J. Varley<sup>3</sup>, (1)*UNC Chapel Hill*, (2)*M.I.N.D. Institute, University of California at Davis*, (3)*University of Washington*, (4)*Portland State University*

**Oral Sessions**

**126 Human Genetics 1**

3:45 PM - 5:45 PM - Grand Ballroom CD Level 5

- 3:45 **126.001**  
A Population-Based Twin Study of Autism in California. J. Hallmayer\*<sup>1</sup>, J. M. Phillips<sup>1</sup>, S. Cleveland<sup>1</sup>, A. Torres<sup>1</sup>, L. Lotspeich<sup>1</sup>, C. Lajonchere<sup>2</sup>, A. Fedele<sup>2</sup>, J. Miller<sup>2</sup>, T. Torigoe<sup>2</sup>, J. K. Grether<sup>3</sup>, K. S. Smith<sup>3</sup>, J. Collins<sup>4</sup>, S. Ozonoff<sup>5</sup>, L. A. Croen<sup>6</sup> and N. Risch<sup>7</sup>, (1)*Stanford University*, (2)*Autism Speaks*, (3)*California Department of Public Health*, (4)*CA Department of Public Health*, (5)*M.I.N.D. Institute, University of California at Davis*, (6)*Kaiser Permanente*, (7)*University of California San Francisco*
- 4:00 **126.002**  
CNV Atlas for Autism: A Gene Discovery and Clinical Research Tool. D. H. Ledbetter\*<sup>1</sup>, E. B. Kaminsky<sup>1</sup>, D. Pickering<sup>2</sup>, D. Golden<sup>2</sup>, E. Aston<sup>3</sup>, T. J. Gliem<sup>4</sup>, T. Ackley<sup>5</sup>, S. Huang<sup>6</sup>, J. C. Barber<sup>6</sup>, J. A. Crolla<sup>6</sup>, R. K. Iyer<sup>5</sup>, E. C. Thorland<sup>7</sup>, A. R. Brothman<sup>3</sup>, W. G. Sanger<sup>2</sup>, S. Aradhya<sup>4</sup> and C. L. Martin<sup>1</sup>, (1)*Emory University*, (2)*University of Nebraska Medical Center*, (3)*ARUP Laboratories*, (4)*GeneDx*, (5)*Michigan Medical Genetics Laboratories*, (6)*Wessex Regional Genetics Laboratory*, (7)*Mayo Clinic*
- 4:15 **126.003**  
Decreased Serum Hepatocyte Growth Factor (HGF) in Autistic Children with Severe Gastrointestinal Disease. A. J. Russo\*<sup>1</sup>, *Health Research Institute/Pfeiffer Treatment Center*
- 4:30 **126.004**  
Embryologically-Derived Measures of Dysmorphology Among AGRE Multiplex Autism Probands. C. Deutsch\*<sup>1</sup>, R. E. Butler<sup>2</sup>, S. S. Nazarian-Mobin<sup>3</sup>, B. S. Chambers<sup>2</sup>, A. R. Shell<sup>4</sup>, J. R. Cuomo<sup>5</sup>, R. W. Francis<sup>4</sup>, J. M. Stoler<sup>6</sup>, M. M. Urata<sup>3</sup> and C. Lajonchere<sup>2</sup>, (1)*Shriver Center and McLean Hospital, Harvard Medical School*, (2)*Autism Speaks*, (3)*Children's Hospital Los Angeles*, (4)*Eunice Kennedy Shriver Center*, (5)*Harvard University*, (6)*Children's Hospital Boston*
- 4:45 **126.005**  
Genome-Wide Analysis Identifies Global Rare Variation in Autism. ... Autism Genome Project Consortium\*<sup>1</sup>, *AGP Institutions in*
- 5:00 **126.006**  
Sex-Specific Genetic Effects of Autism Spectrum Disorders in a Genome-Wide Association Analysis. S. C. Chang\*<sup>1</sup>, C. Lange<sup>2</sup>, J. Lasky-Su<sup>3</sup>, M. J. Daly<sup>4</sup> and S. L. Santangelo<sup>4</sup>, (1)*Department of Epidemiology, Harvard School of Public Health*, (2)*Department of Biostatistics, Harvard School of Public Health*, (3)*Channing Laboratories, Brigham and Women's Hospital and Harvard Medical School*, (4)*Massachusetts General Hospital*
- 5:15 **126.007**  
Systematic Resequencing of X-Linked Synaptic Genes: Identification of Damaging Mutations in Autistic Spectrum Individuals. A. Piton\*<sup>1</sup>, J. Gauthier<sup>1</sup>, F. F. Hamdan<sup>1</sup>, S. 2. D. Team<sup>1</sup>, L. Mottron<sup>3</sup>, R. Joobers<sup>3</sup>, E. Fombonne<sup>4</sup>, P. Drapeau<sup>5</sup> and G. A. Rouleau<sup>1</sup>, (1)*CENUM*, (2)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (3)*Institut Douglas*, (4)*McGill University*, (5)*Groupe de recherche sur le système nerveux central*



- 5:30 **126.008**  
Whole Genome Brain Gene Expression in Autism Reveals Signatures of Multiple Ongoing Processes. M. L. Chow<sup>\*1</sup>, H. R. Li<sup>1</sup>, J. B. Fan<sup>2</sup>, C. April<sup>2</sup>, M. E. Winn<sup>3</sup>, A. Wynshaw-Boris<sup>4</sup>, N. Schork<sup>3</sup>, X. D. Fu<sup>1</sup> and E. Courchesne<sup>1</sup>, (1)University of California San Diego, (2)Illumina, Inc., (3)Scripps Genomic Medicine & The Scripps Translational Sciences Institute (STSI), (4)UCSF School of Medicine

## Scientific Panels

### 127 Preschool Autism Communication Trial (PACT)

4:45 PM - 5:45 PM - Grand Ballroom E Level 5

Organizer: J. Green; *The University of Manchester*

PACT is the first large scale RCT to be completed to date on psychosocial intervention for autism. This panel provides a timely overview for the field of the rich clinical dataset and scientific material generated by this large trial. In addition to answering primary questions of treatment effectiveness, PACT was also designed as a developmental experiment, testing key aspects of early psychopathology of autism through innovative analysis of mediation. The presentations focus on primary ITT analysis of the trial and implications for current autism intervention practice and research; investigations of causal relationships between parent-child dyadic communication and autism development; and the value of patient-nominated outcome measures. We present a new quality of life family measure developed and validated during the PACT trial.

- 4:45 **127.001**  
Parent-Mediated Communication-Focused Treatment for Preschool Children with Autism (MRC PACT); A Randomised Controlled Trial. J. Green<sup>\*1</sup>, T. Charman<sup>2</sup>, H. McConachie<sup>3</sup>, C. R. Aldred<sup>4</sup>, V. Slonims<sup>5</sup>, P. Howlin<sup>6</sup>, A. Le Couteur<sup>7</sup>, K. Leadbitter<sup>4</sup>, K. Hudry<sup>8</sup>, S. Byford<sup>9</sup>, B. Barrett<sup>9</sup>, K. Temple<sup>10</sup>, W. MacDonald<sup>1</sup>, A. Pickles<sup>4</sup> and T. PACT Consortium<sup>4</sup>, (1)*The University of Manchester*, (2)*Institute of Education, University of London*, (3)*The University of Newcastle*, (4)*University of Manchester*, (5)*Guy's and St. Thomas' NHS Trust*, (6)*Institute of Psychiatry, King's College London*, (7)*Newcastle University*, (8)*Department of Psychology and Human Development, Institute of Education*, (9)*Institute of Psychiatry*, (10)*University of Newcastle*
- 5:10 **127.002**  
Analysing the Impact of Parent Communication Training On the Child with Autism: Learning From Trials. A. Pickles<sup>\*1</sup>, J. Green<sup>2</sup>, H. McConachie<sup>3</sup>, T. Charman<sup>4</sup>, C. R. Aldred<sup>1</sup> and T. PACT Consortium<sup>1</sup>, (1)*University of Manchester*, (2)*The University of Manchester*, (3)*The University of Newcastle*, (4)*Institute of Education, University of London*
- 5:30 **127.003**  
The Family Life Questionnaire: The Development of An Autism-Specific Measure of Family Life Functioning. D. Kapadia<sup>\*1</sup>, K. Leadbitter<sup>2</sup>, W. MacDonald<sup>1</sup>, R. Emsley<sup>1</sup>, H. McConachie<sup>3</sup>, J. Green<sup>1</sup> and T. PACT Consortium<sup>2</sup>, (1)*The University of Manchester*, (2)*University of Manchester*, (3)*The University of Newcastle*

## Scientific Panels

### 128 The Role of the Corpus Callosum in Autism

4:45 PM - 5:45 PM - Grand Ballroom AB Level 5

Moderator: E. Marco; *UC San Francisco*

Organizer: E. Sherr; *UCSF*

The corpus callosum is the brain's major cortical white matter tract with nearly 200 million axons connecting the right and left cerebral hemispheres. Emerging evidence suggests that individuals with ASD have small or anatomically atypical corpus callosa. Furthermore, individuals with congenital absence of the corpus callosum (AgCC) can have communication, executive function and social disabilities that are within the autism spectrum. Both groups experience sensory sensitivities that may play a role in learning and behavioral difficulties. In this session, we show that AgCC individuals have profound social deficits associated with decreased sensory processing. Moreover, AgCC participants have deficits in recognition of facial emotion that appears related to not looking at the eyes and the mouth, as found in ASD generally. We also provide important insights from MEG-based functional connectivity: resting state connectivity is decreased in frontal lobe regions and correlates with both executive function and overall social cognition performance. These findings underscore the role that disrupted long-range connectivity plays in autism.

- 4:45 **128.001**  
Agenesis of the Corpus Callosum and the Autism Spectrum. Y. Lau<sup>\*1</sup>, E. Marco<sup>2</sup>, L. B. N. Hinkley<sup>1</sup>, Z. Strominger<sup>1</sup>, R. Jeremy<sup>1</sup>, P. Mukherjee<sup>1</sup>, S. Nagarajan<sup>1</sup> and E. Sherr<sup>3</sup>, (1)*University of California, San Francisco*, (2)*UC San Francisco*, (3)*UCSF*
- 5:00 **128.002**  
Facial Emotion Recognition in Primary Agenesis of the Corpus Callosum. L. K. Paul<sup>\*1</sup>, M. W. Bridgman<sup>1</sup>, W. S. Brown<sup>2</sup>, M. L. Spezio<sup>1</sup> and R. Adolphs<sup>1</sup>, (1)*Caltech*, (2)*Fuller Graduate School of Psychology*
- 5:15 **128.003**  
Individuals with Agenesis of the Corpus Callosum Show Atypical Sensory Processing. M. Arroyo<sup>\*1</sup>, Z. Strominger<sup>1</sup>, W. Dunn<sup>2</sup>, R. Jeremy<sup>1</sup>, A. J. Barkovich<sup>1</sup>, E. Sherr<sup>3</sup> and E. Marco<sup>4</sup>, (1)*University of California, San Francisco*, (2)*University of Kansas*, (3)*UCSF*, (4)*UC San Francisco*
- 5:30 **128.004**  
Functional Connectivity and Executive Function in Agenesis of the Corpus Callosum. L. B. N. Hinkley<sup>\*1</sup>, E. Marco<sup>2</sup>, A. M. Findlay<sup>1</sup>, R. Jeremy<sup>1</sup>, Z. Strominger<sup>1</sup>, M. Wakahiro<sup>1</sup>, P. Mukherjee<sup>1</sup>, S. Nagarajan<sup>1</sup> and E. Sherr<sup>3</sup>, (1)*University of California, San Francisco*, (2)*UC San Francisco*, (3)*UCSF*

## Scientific Panels

### 125 Autism Instructional Methods Study: Opportunities & Challenges for Moving Intervention into Community Settings

4:45 PM - 5:45 PM - Grand Ballroom F Level 5

*Organizer:* D. S. Mandell; *University of Pennsylvania School of Medicine*

In the past few decades, >20 randomized controlled trials have shown the efficacy of behavioral interventions for young children with autism. While findings are promising, little attention has been given as to how interventions might be moved successfully to community settings so that they are effective and sustain. Efforts to transport interventions are hampered by lack of knowledge of real-world context, including teachers' training and resources, their ability and willingness to implement complex programs with fidelity, the school climate for embracing new interventions, and the heterogeneity of the children they serve. The Autism Instructional Methods Study (AIMS) is a four-year, large-scale randomized field trial designed to examine factors associated with the effective implementation and student outcomes of two evidence-based interventions – Strategies for Teaching based on Autism Research (STAR) and Structured Teaching – for students in kindergarten-through-second-grade autism support classrooms in an urban setting. This panel presents early results of the trial, including: the ability and willingness of education staff to implement these programs with fidelity (Stahmer), first-year student outcomes and moderators of outcome (Shin), the role of classroom climate in program fidelity (Dingfelder), and lessons learned in conducting research in partnership with a large school district (Mandell).

- 3:45 **125.001**  
The Autism Instructional Methods Study: What We Planned and Why We Were Wrong. D. S. Mandell<sup>\*1</sup>, S. Shin<sup>2</sup>, A. Stahmer<sup>3</sup> and S. C. Marcus<sup>4</sup>, (1)*University of Pennsylvania School of Medicine*, (2)*University of Pennsylvania*, (3)*Rady Children's Hospital*, (4)*University of Pennsylvania School of Social Policy and Practice*
- 4:00 **125.002**  
Fidelity of Implementation of Evidence-Based Practice in Community Classrooms. A. Stahmer<sup>\*1</sup>, S. Reed<sup>1</sup>, S. Shin<sup>2</sup> and D. S. Mandell<sup>3</sup>, (1)*Rady Children's Hospital*, (2)*University of Pennsylvania*, (3)*University of Pennsylvania School of Medicine*
- 4:15 **125.003**  
Student, Teacher and Classroom-Level Mediators of Outcomes for Children with Autism Spectrum Disorders. S. Shin<sup>\*1</sup>, A. Stahmer<sup>2</sup>, S. C. Marcus<sup>3</sup> and D. S. Mandell<sup>4</sup>, (1)*University of Pennsylvania*, (2)*Rady Children's Hospital*, (3)*University of Pennsylvania School of Social Policy and Practice*, (4)*University of Pennsylvania School of Medicine*
- 4:30 **125.004**  
The Relationship Between Classroom Climate and Intervention Fidelity. H. E. Dingfelder<sup>\*1</sup>, S. Shin<sup>1</sup> and D. S. Mandell<sup>2</sup>, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*

## Special Presidential Lecture: Autism and Society

6:00-7:30P Grand Ballroom AB/F

*Speaker:* Jacqueline Russell, *Artistic Director, Chicago Children's Theatre*

In this presentation, Jacqueline Russell shares how she and Chicago Children's Theatre have succeeded in creating a new type of theatre for children with Autism Spectrum Disorder (ASD). This bold and unique theatre initiative began three years ago and is known as **The Red Kite Project**. At the heart of The Red Kite Project is interactive, multi-sensory theatre specifically tailored to meet the special needs of children with ASD and their families. For more than a decade, Jacqui Russell has used theatre games in the classroom to enhance communication and interpersonal skills in children with autism. As co-founder of Chicago Children's Theatre, Russell's longstanding commitment to special education turned that passion and experience into live theatre specifically for children on the spectrum. Russell has spent years studying, developing, and rehearsing this immersive form of theatre by teaming up with colleagues from the UK, educators, actors, designers, therapists and doctors, and most importantly, with the children who inspired her personal and professional journey---the students in the autism classes at Agassiz Elementary School in Chicago. The result has been the first of its kind production in the United States for these children, their families and caregivers who at last can come together to experience the elusive joys of live theatre.

## Poster Sessions

### 130 Animal Models

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **142 130.121**  
Effect of Maternal Omega-6 Rich Diets and Prenatal Stress On Autistic-Like Sociability Deficits in Mice. K. L. Jones<sup>\*</sup>, M. J. Will, P. M. Hecht, C. L. Parker, K. M. Morman and D. Q. Beversdorf, *University of Missouri*
- 2:00 **143 130.122**  
Functional Dissection of the Autism Susceptibility Gene Slc25a12 in Model Systems. T. Sakurai<sup>\*1</sup>, N. Ramoz<sup>2</sup>, M. Gazdoui<sup>1</sup>, N. Takahashi<sup>1</sup>, N. P. Dorr<sup>1</sup>, M. A. Gama Sosa<sup>1</sup>, R. De Gasperi<sup>1</sup>, G. A. Elder<sup>3</sup> and J. D. Buxbaum<sup>1</sup>, (1)*Mount Sinai School of Medicine*, (2)*INSERM*, (3)*Mount Sinai School of Medicine, James J. Peters VA Medical Center*
- 3:00 **144 130.123**  
Influence of Partner Cues On Social Behaviors in the BTBR Mouse Model of Autism. M. Yang<sup>\*</sup>, A. M. Katz, M. Weber and J. N. Crawley, *National Institute of Mental Health, National Institutes of Health*
- 1:00 **145 130.124**  
Modeling An Autism Risk Factor in Mice Leads to Permanent Changes in the Immune System. E. Hsiao<sup>\*</sup>, *California Institute of Technology*

- 2:00 **146 130.125**  
Neonatal Administration of Propionic Acid Alters Startle Response Magnitude in Adolescent Rats. K. A. Foley\*, L. J. Tichenoff, K. - P. Ossenkopp and D. F. MacFabe, *University of Western Ontario*
- 3:00 **147 130.126**  
Neuroigin-Deficient Mutants of *C. Elegans* Have Sensory Deficits and Are Hypersensitive to Oxidative Stress. J. B. Rand\*<sup>1</sup>, J. W. Hunter<sup>2</sup>, G. P. Mullen<sup>1</sup> and J. M. Heatherly<sup>2</sup>, (1)*Oklahoma Medical Research Foundation*, (2)*Oklahoma Medical Research Foundation/University of Oklahoma Health Sciences Center*
- 1:00 **148 130.127**  
Scent Marking as a Measure of Olfactory Communication in Shank1 Null Mutant Mice. F. I. Roulet\*<sup>1</sup>, R. Saxena<sup>1</sup>, M. Wöhr<sup>1</sup>, A. Y. Hung<sup>2</sup>, M. Sheng<sup>2</sup> and J. N. Crawley<sup>3</sup>, (1)*National Institute of Mental Health*, (2)*Massachusetts Institute of Technology*, (3)*National Institute of Mental Health, National Institutes of Health*
- 2:00 **149 130.128**  
The Dog as a Genetic Model to Investigate Overlap in Social, Attention, and Activity Behaviors. L. Lit\*, D. Bannasch and J. Schweitzer, *University of California at Davis*
- 3:00 **150 130.129**  
A Role for HGF/SF-Met Signaling in the Developing Cortex. J. M. Smith\*, G. J. Martins, C. Plachez and E. M. Powell, *University of Maryland School of Medicine*
- 1:00 **151 130.130**  
Comprehensive Behavioral Phenotyping of Neuroigin 2 Mutant Mice. S. Turner\*, D. D. Diagne, M. J. Harris, R. Saxena, J. L. Silverman and J. N. Crawley, *National Institute of Mental Health, National Institutes of Health*
- 2:00 **152 130.131**  
Development and Temporal Dynamics of Repetitive Behavior. M. Lewis\*, Y. Tanimura and M. Yang, *University of Florida*
- 3:00 **153 130.132**  
Effects of Acute Serotonin Reuptake Inhibitor Treatment and Serotonin Depletion On Sociability in Juvenile BALB/Cj and C57BL/6J Mice. A. H. Fairless\*<sup>1</sup>, E. Gordon<sup>1</sup>, R. Y. Shah<sup>1</sup>, H. C. Dow<sup>1</sup>, S. C. Allen<sup>1</sup> and E. S. Brodtkin<sup>2</sup>, (1)*University of Pennsylvania School of Medicine*, (2)*University of Pennsylvania*
- 1:00 **154 130.133**  
Longitudinal Assessment of Fgf17-/- Mouse Social Behavior On the C57Bl/6 Background. E. C. Ihle\*<sup>1</sup>, K. Searce-Levie<sup>2</sup>, N. Devidze<sup>3</sup>, R. Hoch<sup>1</sup> and J. L. Rubenstein<sup>1</sup>, (1)*UCSF*, (2)*Genentech*, (3)*Gladstone Institute*
- 2:00 **155 130.134**  
Pharmacological Treatment of Repetitive Behavior in Deer Mice: Targeting Striatal Heteromeric Receptor Complexes. A. M. Van Matre\* and M. Lewis, *University of Florida*
- 3:00 **156 130.135**  
The Impact of Gabrb3 Expression Variation On Autism Spectrum Disorder Related Phenotypes in Mouse. L. Herzing\*, S. Zeng, N. Chiu, M. Yasvoina and K. Kugle, *Northwestern University Feinberg School of Medicine*
- 1:00 **157 130.136**  
Behavioral Phenotypes of Shank1 Mutant Mice. J. L. Silverman\*<sup>1</sup>, C. L. Barkan<sup>1</sup>, S. S. Tolu<sup>1</sup>, S. Turner<sup>1</sup>, R. Saxena<sup>1</sup>, D. D. Diagne<sup>1</sup>, A. Y. Hung<sup>2</sup>, M. Sheng<sup>2</sup> and J. N. Crawley<sup>1</sup>, (1)*National Institute of Mental Health, National Institutes of Health*, (2)*Massachusetts Institute of Technology*
- 2:00 **158 130.137**  
Constructing a Transgenic Mouse Model Based On SLC25A12, MARK1 and PRKCB1 Gene Dosage Imbalance Mimicking Gene Expression Changes Found in Brain of ASD Patients. A. M. Lepagnol-Bestel<sup>1</sup>, J. M. Moalic<sup>1</sup>, J. Hager<sup>2</sup> and M. J. Simonneau\*<sup>1</sup>, (1)*INSERM U894*, (2)*IntegraGen*
- 3:00 **159 130.138**  
Intraventricular Infusions of Enteric Short Chain Fatty Acids Induce Behavioural, Neuropathological and Epigenetic Changes in Rats-Further Development of a Novel Rodent Model of Autism. D. F. MacFabe\*<sup>1</sup>, R. Agarwal<sup>2</sup>, L. J. Tichenoff<sup>1</sup>, A. R. Taylor<sup>1</sup>, E. LaGamma<sup>2</sup> and B. B. Nankova<sup>2</sup>, (1)*University of Western Ontario*, (2)*New York Medical College/Westchester Medical Centre, Valhalla NY, USA*
- 1:00 **160 130.139**  
The Human AVPR1A BAC Transgenic Mouse: Generation and Validation of a Preclinical Model for Elucidating the Role of AVPR1A in Autism Spectrum Disorders. R. A. Charles\*<sup>1</sup>, T. Sakurai<sup>2</sup>, M. A. Gama Sosa<sup>2</sup>, G. A. Elder<sup>3</sup>, L. J. Young<sup>4</sup> and J. D. Buxbaum<sup>2</sup>, (1)*Mount Sinai School of Medicine, Seaver Autism Center*, (2)*Mount Sinai School of Medicine*, (3)*Mount Sinai School of Medicine, James J. Peters VA Medical Center*, (4)*Emory University*
- 2:00 **161 130.140**  
Transient Expression of Serotonin 5-HT4 Receptors in the Developing Thalamocortical Projections. S. Janusonis\*, E. Slaten, M. Hernandez, A. Chen, R. Albay and R. Lavian, *University of California, Santa Barbara*
- 3:00 **162 130.141**  
Changing GABAergic Tone Influences Prefrontal Mediated Cognition. G. B. Bissonette\*<sup>1</sup>, M. Bae<sup>1</sup>, T. Suresh<sup>1</sup>, G. Schoenbaum<sup>1</sup> and E. M. Powell<sup>2</sup>, (1)*University of Maryland, Baltimore*, (2)*University of Maryland School of Medicine*
- 1:00 **163 130.142**  
Preferential Differentiation of TH17 Cells in Offspring of Immune-Activated Dams in a Prenatal Mouse Model of Autism. M. Mandal\*<sup>1</sup>, A. Marzouk<sup>2</sup>, R. Donnelly<sup>3</sup> and N. M. Ponzio<sup>2</sup>, (1)*UMDNJ - Graduate School of Biomedical Sciences*, (2)*UMDNJ - New Jersey Medical School*, (3)*UMDNJ - New Jersey Medical School and Graduate School of Biomedical Sciences*

## Poster Sessions

### 130 Brain Imaging

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **22 130.001**  
fMRI of Citalopram Treatment in Autism. S. Greeter<sup>1</sup>, L. Sikich<sup>2</sup>, C. Alderman<sup>2</sup>, A. Rittenberg<sup>2</sup>, L. Turner-Brown<sup>3</sup>, T. Holtzclaw\*<sup>4</sup>, J. W. Bodfish<sup>5</sup>, J. Richey<sup>4</sup> and G. Dichter<sup>2</sup>, (1)*University of North Carolina School of Medicine*, (2)*University of North Carolina*, (3)*UNC-Chapel Hill*, (4)*Carolina Institute for Developmental Disabilities*, (5)*University of North Carolina - Chapel Hill*
- 2:00 **23 130.002**  
Meta-Analysis of Functional Neuroimaging Studies Reveals Enhanced Engagement of Visual System in Autism. F. Samson\*<sup>1</sup>, T. A. Zeffiro<sup>2</sup>, I. Soulières<sup>1</sup> and L. Mottron<sup>1</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Neural Systems Group, Massachusetts General Hospital*

# Program

- 3:00 **24 130.003**  
Microstructural Changes in Face Processing Pathways in Autism: Diffusion Tensor Tracking (DTT) with Behavioral Comparison. T. E. Conturo<sup>\*1</sup>, D. L. Williams<sup>2</sup>, E. L. Williams<sup>3</sup>, C. D. Smith<sup>4</sup>, E. Gultepe<sup>1</sup>, E. Akbudak<sup>1</sup>, M. S. Strauss<sup>5</sup> and N. J. Minshew<sup>6</sup>, (1)Washington University School of Medicine, (2)Duquesne University, (3)University of Louisville, (4)University of Kentucky, (5)University of Pittsburgh, (6)University of Pittsburgh School of Medicine
- 1:00 **25 130.004**  
Neural Correlates of Response Inhibition and Response Monitoring in Autism. S. Spinelli<sup>\*</sup>, M. C. Goldberg, S. E. Joel, J. J. Pekar and S. H. Mostofsky, Kennedy Krieger Institute, Johns Hopkins University School of Medicine
- 2:00 **26 130.005**  
Quantitative Analysis of the Shape of the Corpus Callosum in Autism. M. F. Casanova<sup>\*1</sup>, A. S. El-Baz<sup>3</sup>, A. E. Switala<sup>1</sup>, E. L. Williams<sup>1</sup>, D. L. Williams<sup>2</sup>, N. J. Minshew<sup>3</sup> and T. E. Conturo<sup>4</sup>, (1)University of Louisville, (2)Duquesne University, (3)University of Pittsburgh School of Medicine, (4)Washington University School of Medicine
- 3:00 **27 130.006**  
Reduced Differentiation of Functional Networks Suberved by Posterior Superior Temporal Sulcus in Autism Spectrum Disorder. P. Shih<sup>1</sup>, B. Keehn<sup>2</sup>, J. Oram<sup>1</sup>, K. M. Leyden<sup>1</sup> and R. A. Müller<sup>\*1</sup>, (1)San Diego State University, (2)San Diego State University / University of California, San Diego
- 1:00 **28 130.007**  
Reduced Inter-Hemispheric Functional Connectivity in Toddlers with Autism. I. Dinstein<sup>\*1</sup>, L. T. Eyley<sup>2</sup>, R. Malach<sup>1</sup>, M. Behrmann<sup>3</sup>, E. Courchesne<sup>4</sup> and K. Pierce<sup>4</sup>, (1)Weizmann Institute of Science, (2)University of California San Diego, (3)Carnegie Mellon University, (4)University of California, San Diego
- 2:00 **29 130.008**  
Statistical 3D Shape Analysis of Lateral Ventricles in Autism. Q. He, Y. Duan<sup>\*</sup> and J. H. Miles, University of Missouri
- 3:00 **30 130.009**  
Structural Brain Changes and Attention-Deficit Hyperactivity Symptom Severity in Young Persons with Autism Spectrum Disorder. C. Ravichandran<sup>\*1</sup>, J. E. Lainhart<sup>2</sup>, A. Froelich<sup>2</sup>, M. B. DuBray<sup>2</sup>, T. Abildskov<sup>3</sup>, E. D. Bigler<sup>3</sup>, A. L. Alexander<sup>4</sup> and N. Lange<sup>5</sup>, (1)McLean Hospital/Harvard Medical School, (2)University of Utah, (3)Brigham Young University, (4)University of Wisconsin, (5)Harvard University
- 1:00 **31 130.010**  
The Development of Amygdala-Fusiform Structural Connectivity and Face Processing in High Functioning Autism. N. Tottenham<sup>\*</sup> and K. Gillespie, UCLA
- 2:00 **32 130.011**  
Viewing Images of Restricted Interests Elicits BOLD Response in Neural Reward System. C. Cascio<sup>\*1</sup>, J. H. Foss-Feig<sup>2</sup>, A. A. Cosby<sup>3</sup>, C. P. Burnette<sup>3</sup>, M. Blanco<sup>1</sup> and S. M. Bolton<sup>3</sup>, (1)Vanderbilt University School of Medicine, (2)Vanderbilt University, (3)Vanderbilt School of Medicine/Kennedy Center for Research on Human Development
- 3:00 **33 130.012**  
WHITE MATTER Parcellation IN LOW-IQ CHILDREN with and without Autistic Disorder. M. R. Herbert<sup>\*1</sup>, L. O'Brien<sup>2</sup>, N. Shetty<sup>1</sup> and D. Ziegler<sup>3</sup>, (1)Massachusetts General Hospital, (2)Colby College, (3)MIT
- 1:00 **34 130.013**  
MRI Measurement of Intracranial MPAs (minor physical anomalies) in Autism. G. Fung<sup>\*1</sup>, Y. Y. Fung<sup>2</sup>, C. Cheung<sup>1</sup>, Y. You<sup>1</sup>, G. M. McAlonan<sup>1</sup> and S. E. Chua<sup>1</sup>, (1)University of Hong Kong, (2)Harvard University
- 2:00 **35 130.014**  
Music, More Than Language, Engages Typical Language Pathways in Autism Spectrum Disorder (ASD). G. Lai<sup>\*1</sup>, A. Newhouse<sup>1</sup>, H. Hancock<sup>1</sup>, E. Huang<sup>1</sup>, J. Briones<sup>1</sup>, E. Mandel<sup>1</sup>, H. D. Schneider<sup>1</sup>, J. Schwarzenberger<sup>2</sup>, W. S. Millar<sup>1</sup> and J. Hirsch<sup>1</sup>, (1)Columbia University, (2)University of California Los Angeles
- 3:00 **36 130.015**  
Neural Activation to Emotional Faces in Adolescents with Autism Spectrum Disorders. S. J. Weng<sup>\*</sup>, M. Carrasco, J. R. Swartz, J. L. Wiggins, N. Kurapati, I. Liberzon, S. Risi, C. Lord and C. S. Monk, University of Michigan
- 1:00 **37 130.016**  
Neural Bases of Implicit Learning in Young Adults with Autism Spectrum Disorder. C. L. Klein<sup>\*1</sup>, L. G. Klinger<sup>1</sup>, R. K. Kana<sup>2</sup>, B. G. Travers<sup>1</sup>, R. Montague<sup>3</sup> and M. R. Klinger<sup>1</sup>, (1)University of Alabama, (2)University of Alabama at Birmingham, (3)Baylor College of Medicine
- 2:00 **38 130.017**  
Reduced Right Frontoinsular Activity in Novelty Detection in Autism. M. A. Ferguson<sup>\*1</sup>, J. S. Anderson<sup>1</sup>, T. J. Druzgal<sup>1</sup>, A. L. Froelich<sup>1</sup>, M. B. DuBray<sup>1</sup>, J. A. Nielsen<sup>1</sup>, E. D. Bigler<sup>2</sup> and J. E. Lainhart<sup>1</sup>, (1)University of Utah, (2)Brigham Young University
- 3:00 **39 130.018**  
Social Mirroring: The Role of Mirror Neurons in Decoding Emotions and Intentions From Actions in Autism. R. K. Kana<sup>\*</sup> and H. D. Deshpande, University of Alabama at Birmingham
- 1:00 **40 130.019**  
Sub-Linear Response in the Autistic Brain to Paired Finger Stimulation. M. A. Coskun<sup>\*1</sup>, S. L. Reddoch<sup>2</sup>, D. A. Pearson<sup>3</sup>, K. A. Loveland<sup>3</sup>, E. M. Castillo<sup>2</sup>, A. C. Papanicolaou<sup>2</sup> and B. R. Sheth<sup>1</sup>, (1)University of Houston, (2)Univ. of Texas Med. Sch. at Houston, (3)University of Texas Medical School at Houston
- :00 **41 130.020**  
The Cingulum Bundle in Developing Children and Adolescents with Autism Spectrum Disorders: A Diffusion Tensor Tractography Study. S. Ameis<sup>\*1</sup>, C. Rockel<sup>1</sup>, L. Soorya<sup>2</sup>, E. Hollander<sup>3</sup>, J. Fan<sup>2</sup> and E. Anagnostou<sup>4</sup>, (1)The Hospital for Sick Children, University of Toronto, (2)Mount Sinai School of Medicine, (3)Albert Einstein College of Medicine, (4)Bluebird Research Institute, Bluebird Kids Rehab
- 3:00 **42 130.021**  
The Neural Basis of Pronoun Selection in Autism. A. Mizuno<sup>\*1</sup>, Y. Liu<sup>1</sup>, D. L. Williams<sup>2</sup>, T. A. Keller<sup>1</sup>, N. J. Minshew<sup>3</sup> and M. A. Just<sup>1</sup>, (1)Carnegie Mellon University, (2)Duquesne University, (3)University of Pittsburgh School of Medicine
- 1:00 **43 130.022**  
The Neural Mechanisms Underlying Global and Local Information Processing in High-Functioning Children with Autism. H. M. Wadsworth<sup>\*1</sup>, S. L. Kumar<sup>2</sup> and R. K. Kana<sup>2</sup>, (1)Department of Psychology, University of Alabama at Birmingham, (2)University of Alabama at Birmingham
- 2:00 **44 130.023**  
Understanding Sarcasm in a Speaker's Remark: An fMRI Study in Children and Adolescents with ASD. N. Colich<sup>\*1</sup>, J. D. Rudie<sup>1</sup>, A. T. Wang<sup>2</sup> and M. Dapretto<sup>1</sup>, (1)University of California, Los Angeles, (2)Mount Sinai School of Medicine

- 3:00 **45 130.024**  
Volumetric Brain Differences in Adults with Autistic Spectrum Disorder - the Result of Two Distinct Neuropathological Mechanisms?. C. M. Murphy<sup>\*1</sup>, C. Ecker<sup>2</sup>, P. Johnston<sup>1</sup>, E. Daly<sup>3</sup>, D. Robertson<sup>4</sup>, D. Murphy<sup>3</sup> and M. R. C. AIMS Consortium<sup>5</sup>, (1)*King's College London, Institute of Psychiatry*, (2)*Institute of Psychiatry, King's College London*, (3)*Institute of Psychiatry*, (4)*Institute of Psychiatry, King's College*, (5)*Institute of Psychiatry, London; University of Oxford; University of Cambridge, UK*
- 1:00 **46 130.025**  
fMRI Correlates of Relational Memory Difficulties in Autism Spectrum Disorder. S. B. Gaigg<sup>\*1</sup>, D. M. Bowler<sup>2</sup>, C. Ecker<sup>3</sup>, B. Calvo-Merino<sup>1</sup> and D. G. Murphy<sup>3</sup>, (1)*City University London*, (2)*City University, London*, (3)*Institute of Psychiatry, King's College London*
- 2:00 **47 130.026**  
Neural Bases of Inferring Emotional and Perceptual Information From Body Postures in High-Functioning Children with Autism. S. L. Kumar<sup>\*</sup>, M. R. Pennick, E. M. Griffith and R. K. Kana, *University of Alabama at Birmingham*
- 3:00 **48 130.027**  
Neuro-Functional Networks Supporting Cross-Sensory Emotion Processing in Teens with Autism Spectrum Disorder. K. A. Doyle<sup>\*</sup>, J. Goldberg, P. Szatmari and G. Hall, *McMaster University*
- 1:00 **49 130.028**  
No Longer Massively Univariate: Quantifying Individual and Group Differences in White Matter Microstructure in Autism Vs. Typical Development. J. Scott<sup>\*1</sup>, J. E. Lainhart<sup>2</sup>, M. Lazar<sup>3</sup>, A. L. Alexander<sup>4</sup> and N. Lange<sup>5</sup>, (1)*U.S. Food and Drug Administration*, (2)*University of Utah*, (3)*New York University School of Medicine*, (4)*University of Wisconsin*, (5)*Harvard University*
- 2:00 **50 130.029**  
Organizational Effects of Fetal Testosterone On Human Corpus Callosum Size and Asymmetry: Potential Implications for Autism Spectrum Conditions. L. R. Chura<sup>\*1</sup>, M. V. Lombardo<sup>2</sup>, E. Ashwin<sup>3</sup>, B. Auyeung<sup>4</sup>, B. Chakrabarti<sup>2</sup>, E. Bullmore<sup>5</sup>, R. Holt<sup>1</sup>, M. D. Spencer<sup>1</sup> and S. Baron-Cohen<sup>4</sup>, (1)*Autism Research Centre, Cambridge University*, (2)*Autism Research Centre, Department of Psychiatry, University of Cambridge*, (3)*Autism Research Centre, University of Cambridge*, (4)*University of Cambridge*, (5)*Brain Mapping Unit, Department of Psychiatry, University of Cambridge*
- 3:00 **51 130.030**  
Prototype LEARNING IN AUTISM Spectrum Disorders. B. G. Travers<sup>\*1</sup>, M. Wheelock<sup>1</sup>, C. L. Klein<sup>1</sup>, L. G. Klinger<sup>1</sup>, R. Montague<sup>2</sup> and M. R. Klinger<sup>1</sup>, (1)*University of Alabama*, (2)*Baylor College of Medicine*
- 1:00 **52 130.031**  
Reduced White Matter Integrity of the Default Mode Network in Children with Autism Spectrum Disorder. D. K. Shukla<sup>\*1</sup>, B. Keehn<sup>2</sup> and R. A. Müller<sup>1</sup>, (1)*San Diego State University*, (2)*San Diego State University / University of California, San Diego*
- 2:00 **53 130.032**  
Sex-Related Brain Differences and Heterogeneity in the Autism Spectrum. K. A. Loveland<sup>\*1</sup>, L. Cirilli<sup>2</sup>, D. A. Pearson<sup>1</sup> and J. Bachevalier<sup>2</sup>, (1)*University of Texas Medical School at Houston*, (2)*Emory University*
- 3:00 **54 130.033**  
Structural Abnormalities in School-Aged Children with High Functioning Autism Using Voxel-Based Morphometry. D. Shook<sup>\*1</sup>, B. Yerys<sup>2</sup>, A. M. Bollich<sup>3</sup>, J. James<sup>3</sup>, W. D. Gaillard<sup>3</sup>, L. Kenworthy<sup>3</sup> and C. J. Vaidya<sup>1</sup>, (1)*Georgetown University*, (2)*Children's National Medical Center, George Washington University*, (3)*Children's National Medical Center*
- 1:00 **55 130.034**  
The Neural Correlates of Gaze Perception in Adolescents with Autism Spectrum Disorder (ASD). E. Redcay<sup>\*1</sup>, J. Cloutier<sup>1</sup>, T. Meagher<sup>1</sup>, D. R. O'Young<sup>1</sup>, B. Joseph<sup>2</sup>, P. L. Mavros<sup>1</sup>, V. Vogel-Farley<sup>3</sup>, J. M. Moran<sup>1</sup>, H. Tager-Flusberg<sup>2</sup>, C. A. Nelson<sup>3</sup> and J. D. E. Gabrieli<sup>1</sup>, (1)*MIT*, (2)*Boston University*, (3)*Children's Hospital Boston*
- 2:00 **56 130.035**  
Visuo-Spatial Function Pertaining to the Parietal Region Compared to Verbal Function within the Autism Spectrum. A. Cariello<sup>\*1</sup>, E. Bigler<sup>1</sup>, N. Lange<sup>2</sup>, A. L. Alexander<sup>3</sup>, A. Froehlich<sup>1</sup>, T. Abildskov<sup>4</sup>, M. B. DuBray<sup>1</sup> and J. E. Lainhart<sup>1</sup>, (1)*University of Utah*, (2)*Harvard University*, (3)*University of Wisconsin*, (4)*Brigham Young University*
- 3:00 **57 130.036**  
White Matter Abnormalities in Autism Spectrum Disorders: Evidence of Abnormal Neural Connectivity. R. J. Jou<sup>\*</sup>, N. Mateljevic, C. M. Hudac and K. A. Pelphrey, *Yale University*

## Poster Sessions

### 130 Cell Culture Models

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **164 130.143**  
Homologous Pairing of Chromosome 15q11-q13 Is Associated with Significant Disruption of Gene Expression in Human Maternal Chromosome 15 Microcell Transferred Neurons. M. Meguro-Horike<sup>1</sup>, K. N. Leung<sup>2</sup>, D. H. Yasui<sup>2</sup>, J. M. LaSalle<sup>3</sup> and S. I. Horike<sup>\*1</sup>, (1)*Kanazawa University*, (2)*UC Davis School of Medicine*, (3)*University of California at Davis*
- 2:00 **165 130.144**  
CD8+ T Cell Activation in Children with Autism. A. M. Enstrom<sup>\*1</sup>, J. Van de Water<sup>2</sup> and P. Ashwood<sup>1</sup>, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*University of California at Davis*
- 3:00 **166 130.145**  
Bisphenol-A, An Environmental Risk Factor, Decreases Fluidity and Phosphatidylethanolamine Levels in the Membrane: Potential Role in Autism. V. Chauhan<sup>\*</sup>, K. Kaur and A. Chauhan, *NYS Institute for Basic Research in Developmental Disabilities*
- 1:00 **167 130.146**  
Prenatal Exposure to PBDE47 Alters Motor Behaviors and Spatial Learning in C57BL/6J Mice. R. F. Berman<sup>\*</sup>, T. A. Ta, C. Koenig, M. S. Golub and I. N. Pessah, *University of California at Davis*
- 2:00 **168 130.147**  
The Presence of Antibodies against Differentiating Neuronal Progenitors in Sera From Children with Autism. B. Mazur-Kolecka<sup>\*1</sup>, I. L. Cohen<sup>1</sup>, E. C. Jenkins<sup>1</sup>, E. Marchi<sup>2</sup>, W. T. Brown<sup>1</sup> and J. Frackowiak<sup>1</sup>, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*New York State Institute for Basic Research in Developmental Disabilities*
- 3:00 **169 130.148**  
Chromosomal Engineering of a 15q11-13 Duplication Mouse Model of Autism. T. Takumi<sup>\*</sup>, *Hiroshima University*

**Poster Sessions**

**130 Comorbidities**

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **71 130.050**  
Neuroglial and Innate Neuroimmunity Contribution to the Pathogenesis of Autism and Other Neurodevelopmental Disorders. C. A. Pardo\*<sup>1</sup>, A. Azhagiri<sup>1</sup> and S. Wills<sup>2</sup>, (1)*Johns Hopkins University School of Medicine*, (2)*Johns Hopkins University Departement of Neurology*
- 2:00 **72 130.051**  
Behavioral Improvements with Fever in Children with Autism: Immune Effects On Synaptic Connectivity?. A. W. Zimmerman\*, *Kennedy Krieger Institute*
- 3:00 **73 130.052**  
Biomarkers of Immunological and Metabolic Comorbidities in Autism Spectrum Disorders. J. Bradstreet\*<sup>1</sup> and R. F. Palmer<sup>2</sup>, (1)*International Child Development Resource Center*, (2)*University of Texas Health Science Center at San Antonio*
- 1:00 **74 130.053**  
Biopsychosocial Model of ADHD in Autism Spectrum Disorder. K. Gadow\*, *State University of New York*
- 2:00 **75 130.054**  
Comorbid Psychopathology in Children with ASD and An Age- and IQ-Matched Control Group. N. Skokauskas\* and L. Gallagher, *Trinity College Dublin*
- 3:00 **76 130.055**  
Autism Spectrum Disorder and Cri Du Chat Syndrome. D. R. E. Emerich<sup>1</sup>, C. S. Paula\*<sup>2</sup>, R. C. R. Rimério<sup>1</sup> and M. C. Teixeira<sup>1</sup>, (1)*Mackenzie P University*, (2)*Universidade Presbiteriana Mackenzie*
- 1:00 **77 130.056**  
Characteristics of Anxiety in Children with Co-Occurring Autism Spectrum and Anxiety Disorders. F. Cruz\*, A. Pulido, L. Ampolos, K. La Marca, R. McNally Keehn and A. J. Lincoln, *Alliant International University*
- 2:00 **78 130.057**  
Depressive Symptoms in Children with Autism Spectrum Disorder. L. Thornton\* and G. Benson, *Cheshire and Wirral Partnership NHS Trust*
- 3:00 **79 130.058**  
A Large Scale Study of the Psychometric Characteristics of the Ibr Modified Overt Aggression Scale: Findings and Evidence for Increased Self-Destructive Behaviors in Adult Females with Autism Spectrum Disorder. I. Cohen\*<sup>1</sup>, J. A. Tsiouris<sup>1</sup>, M. J. Flory<sup>1</sup>, S. Kim<sup>1</sup>, R. L. Freedland<sup>1</sup>, G. Heaney<sup>1</sup>, J. Pettinger<sup>2</sup> and W. T. Brown<sup>1</sup>, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*NYS OMRDD*
- 1:00 **80 130.059**  
Case Report: Event Related Potentials in An Adolescent with Autism Prior to Onset of Schizophrenia. L. L. Sears\*, E. M. Sokhadze, G. Mathai and T. Erwin, *University of Louisville*
- 2:00 **81 130.060**  
Associations Between Early Measures of Medical Complications and Neurobehavioral Integrity with Later Dimensional Measures of Autism Traits in NICU Infants. I. L. Cohen\*<sup>1</sup>, B. Z. Karmel<sup>1</sup>, J. M. Gardner<sup>1</sup>, E. M. Lennon<sup>1</sup>, L. D. Swensen<sup>2</sup> and T. Rovito Gomez<sup>1</sup>, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*Institute of Professional Practice*
- 3:00 **82 130.061**  
Anxiety and Depression in Children with HFASDs: Symptom Levels and Source Differences. C. Lopata\*<sup>1</sup>, J. A. Toomey<sup>2</sup>, J. D. Fox<sup>3</sup>, M. A. Volker<sup>4</sup> and M. L. Thomeer<sup>1</sup>, (1)*Canisius College*, (2)*Summit Educational Resources*, (3)*Autistic Services*, (4)*University at Buffalo, SUNY*
- 1:00 **83 130.062**  
Cognition in ADHD and Autism. H. M. Geurts\*, *University of Amsterdam*
- 2:00 **84 130.063**  
The Relationship Between Prenatal Stressors, Autism Diagnosis, and Autism Severity. K. D. Ward\*, K. C. Salava and E. R. Hahn, *Furman University*
- 3:00 **85 130.064**  
Psychiatric Symptoms and Comorbidities in Children with a History of Autism Who Achieve An "Optimal Outcome". K. E. Tyson\*<sup>1</sup>, E. Troyb<sup>1</sup>, M. A. Rosenthal<sup>1</sup>, M. Helt<sup>1</sup>, I. M. Eigsti<sup>1</sup>, M. L. Barton<sup>1</sup>, L. Naigles<sup>1</sup>, E. A. Kelley<sup>2</sup>, A. Orinstein<sup>1</sup>, M. C. Stevens<sup>3</sup>, R. T. Schultz<sup>4</sup> and D. A. Fein<sup>1</sup>, (1)*University of Connecticut*, (2)*Queen's University*, (3)*Institute of Living, Hartford Hospital / Yale University*, (4)*Children's Hospital of Philadelphia and the University of Pennsylvania*
- 1:00 **86 130.065**  
Exploring the Relationship Between the Neuromodulator Adenosine and Behavioral Symptoms of Autism. S. A. Masino\*<sup>1</sup>, M. Kawamura<sup>1</sup>, J. Svedova<sup>1</sup>, L. M. Plotkin<sup>1</sup>, F. J. DiMario<sup>2</sup> and I. M. Eigsti<sup>3</sup>, (1)*Trinity College*, (2)*Connecticut Children's Medical Center*, (3)*University of Connecticut*
- 2:00 **87 130.066**  
Low Ferritin in Children with ASD: Association with Pica and ADHD Symptoms. K. A. Johnson\*, J. Roesser, S. Hyman, L. Cole, A. Diehl, C. Murray and T. Smith, *University of Rochester*
- 3:00 **88 130.067**  
Anxiety Symptoms in Children with Autism Spectrum Disorders and Their Siblings. R. A. Libove\*<sup>1</sup>, J. Hallmayer<sup>2</sup>, J. M. Phillips<sup>2</sup>, K. J. Parker<sup>2</sup> and A. Y. Hardan<sup>1</sup>, (1)*Stanford University School of Medicine/Lucile Packard Children's Hospital*, (2)*Stanford University*
- 1:00 **89 130.068**  
Increased Mid-Gestational IFN-g, IL-4, and IL-5 in Mothers Giving Birth to a Child with Autism. P. E. Goines\*<sup>1</sup>, D. Braunschweig<sup>2</sup>, C. Yoshida<sup>3</sup>, J. K. Grether<sup>4</sup>, R. L. Hansen<sup>2</sup>, M. Kharrazi<sup>5</sup>, P. Ashwood<sup>6</sup>, J. Van de Water<sup>2</sup> and L. A. Croen<sup>3</sup>, (1)*University of California, Davis*, (2)*University of California at Davis*, (3)*Kaiser Permanente*, (4)*California Department of Public Health*, (5)*Genetic Disease Branch, California Department of Health Services*, (6)*M.I.N.D. Institute, University of California at Davis*
- 2:00 **90 130.069**  
Nutrient Intake, Gastrointestinal Symptoms and Intestinal Microflora in Children with Autism Spectrum Disorder. M. Geraghty\*, A. E. Lane, L. Wang, J. E. Wall, J. Altenburger and K. Klug, *The Ohio State University*
- 3:00 **91 130.070**  
Autism Symptoms in ADHD. A. M. Reiersen\*, *Washington University School of Medicine*
- 1:00 **92 130.071**  
Screening for Autism Spectrum Disorders in Epilepsy and Tuberous Sclerosis Complex with the SRS and SCQ. Y. Granader\*<sup>1</sup>, H. Bender<sup>2</sup>, R. Nass<sup>3</sup> and W. MacAllister<sup>2</sup>, (1)*Yeshiva University & New York University Comprehensive Epilepsy Center*, (2)*New York University Comprehensive Epilepsy Center*, (3)*New York University*

- 2:00 **93 130.072**  
Using the Anxiety Disorders Interview Schedule to Assess Social Phobia in Autistic Adolescents. N. L. Kreiser\*, C. Pugliese and S. White, *Virginia Polytechnic Institute and State University*
- 3:00 **94 130.073**  
Intestinal Inflammation, Impaired Carbohydrate Metabolism and Transport, and Microbial Dysbiosis in Autism. B. L. Williams\*<sup>1</sup>, M. Hornig<sup>1</sup>, T. Buie<sup>2</sup>, M. L. Bauman<sup>3</sup>, A. Bennett<sup>1</sup>, O. Jabado<sup>1</sup>, C. Street<sup>1</sup>, D. L. Hirschberg<sup>1</sup> and W. I. Lipkin<sup>1</sup>, (1)*Columbia University*, (2)*Massachusetts General Hospital*, (3)*MassGeneral Hospital for Children/Harvard Medical School; Boston University School of Medicine*
- 1:00 **95 130.074**  
Autistic Symptoms in a Traumatized Child: A Natural Experiment in Trauma and Resilience— Part II. B. Siegel\*<sup>1</sup>, A. Bernard<sup>2</sup>, E. C. Ihle<sup>3</sup> and E. Marco<sup>1</sup>, (1)*UC San Francisco*, (2)*University of Denver*, (3)*UCSF*
- 2:00 **96 130.075**  
A Twin Study of Anxiety in Autism Spectrum Disorders: Investigating Prevalence and Associations with the Autistic Triad. V. Hallett\*<sup>1</sup>, A. Ronald<sup>2</sup>, E. Colvert<sup>3</sup>, E. Woodhouse<sup>1</sup>, N. Gillan<sup>3</sup>, S. Lietz<sup>1</sup>, P. Bolton<sup>1</sup> and F. Happé<sup>3</sup>, (1)*Institute of Psychiatry, King's College London*, (2)*Birkbeck College, University of London*, (3)*Institute of Psychiatry, KCL*
- 3:00 **97 130.076**  
Clinical Genetic Clues to the Origins and Outcomes of Autism Spectrum Disorders. E. Lopez\*<sup>1</sup>, L. Kaspara<sup>1</sup>, M. J. Hildebrand<sup>1</sup>, P. Carrion<sup>1</sup>, L. Swinton<sup>1</sup>, C. Tyson<sup>2</sup>, M. A. Hrynchak<sup>2</sup>, J. J. A. Holden<sup>3</sup>, E. Rajcan-Separovic<sup>4</sup> and S. M. Lewis<sup>5</sup>, (1)*BC Child & Family Research Institute, University of British Columbia*, (2)*Royal Columbian Hospital*, (3)*ASPIRE, Queen's University*, (4)*Molecular Cytogenetic and Array Research Lab, ASPIRE & the BC Child & Family Research Institute*, (5)*University of British Columbia*
- 1:00 **98 130.077**  
Microbial Translocation as a Factor for Immune Activation in Autism. C. A. Pardo\*<sup>1</sup>, S. J. Spence<sup>2</sup>, M. Kimura<sup>1</sup>, A. Thurm<sup>2</sup>, L. C. Lee<sup>3</sup> and S. E. Swedo<sup>2</sup>, (1)*Johns Hopkins University School of Medicine*, (2)*National Institute of Mental Health, National Institutes of Health*, (3)*Johns Hopkins Bloomberg School of Public Health*
- 1:00 **61 130.040**  
Neuronal Growth Delay within the Claustrum of Autistic Subjects. S. Y. Ma\*<sup>1</sup>, I. Kuchna<sup>1</sup>, K. Nowicki<sup>1</sup>, J. Wegiel<sup>1</sup>, H. Imaki<sup>1</sup>, I. Cohen<sup>2</sup>, E. London<sup>2</sup>, M. Flory<sup>2</sup>, W. T. Brown<sup>3</sup>, T. Wisniewski<sup>1</sup> and J. Wegiel<sup>1</sup>, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*, (3)*NYS Institute for Basic Research*
- 2:00 **62 130.041**  
The Anatomy and Aging of the Amygdala-Hippocampal Complex in Autism Spectrum Disorder. D. Murphy\*, *Institute of Psychiatry*
- 3:00 **63 130.042**  
Corticostriatal Circuitry and Inhibitory Control in Autism: Findings From Diffusion Tensor Imaging Tractography. M. Langen\*<sup>1</sup>, P. Johnston<sup>2</sup>, A. Leemans<sup>3</sup>, C. Ecker<sup>2</sup>, E. Daly<sup>2</sup>, C. M. Murphy<sup>2</sup>, M. Catani<sup>2</sup>, F. dell'Acqua<sup>2</sup>, S. Durston<sup>1</sup>, H. van Engeland<sup>1</sup>, D. G. Murphy<sup>2</sup> and M. R. C. - A. I. M. S. Consortium<sup>4</sup>, (1)*Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht*, (2)*Institute of Psychiatry, King's College London*, (3)*University Medical Center Utrecht*, (4)*Institute of Psychiatry, London; University of Oxford; University of Cambridge*
- 1:00 **64 130.043**  
Brain Region-Specific Neurotrophin Changes in Autism. E. M. Sajdel-Sulkowska\*, *Harvard Medical School, Harvard Institute of Medicine, BWH*
- 2:00 **65 130.044**  
Epigenetic Investigations of 15q11-13 Using Autism Post-Mortem Brain. J. M. LaSalle\*<sup>1</sup>, H. A. Scoles<sup>1</sup>, K. N. Leung<sup>1</sup>, W. Powell<sup>1</sup>, A. Hogart<sup>2</sup>, R. Nagarajan<sup>1</sup>, M. Martin<sup>1</sup> and D. Schroeder<sup>1</sup>, (1)*UC Davis School of Medicine*, (2)*UC Davis*
- 3:00 **66 130.045**  
Dystrophy with Calcification within Brains of Autistic and Control Subjects. I. Kuchna\*<sup>1</sup>, K. Nowicki<sup>1</sup>, H. Imaki<sup>1</sup>, J. Wegiel<sup>1</sup>, S. Y. Ma<sup>1</sup>, E. Marchi<sup>1</sup>, I. Cohen<sup>2</sup>, E. London<sup>2</sup>, W. T. Brown<sup>3</sup>, T. Wisniewski<sup>1</sup> and J. Wegiel<sup>1</sup>, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*, (3)*NYS Institute for Basic Research*
- 1:00 **67 130.046**  
Sensory Filtering Abnormalities in Autism Spectrum Disorder (ASD). J. M. Baruth\*, E. M. Sokhadze, L. L. Sears and M. F. Casanova, *University of Louisville*
- 2:00 **68 130.047**  
Inflammatory Cytokines, Bcl2 and Cathepsin D Are Abnormally Regulated in Lymphoblasts of Autistic Subjects. X. Li\*, A. Sheikh, G. Wen, W. T. Brown and M. Malik, *NYS Institute for Basic Research in Developmental Disabilities*
- 3:00 **69 130.048**  
Cytoarchitectural and Gene Expression Abnormalities in Prefrontal Cortex in Autism. E. Courchesne\*<sup>1</sup>, M. L. Chow<sup>2</sup>, M. P. Boyle<sup>3</sup>, A. Wynshaw-Boris<sup>4</sup>, S. Roy<sup>5</sup>, M. Calhoun<sup>6</sup>, P. Mouton<sup>7</sup>, S. Colamarino<sup>8</sup> and E. Lein<sup>3</sup>, (1)*University of California, San Diego*, (2)*University of California San Diego*, (3)*Allen Institute for Brain Science*, (4)*UCSF School of Medicine*, (5)*UCSD, La Jolla*, (6)*Sinq Stems*, (7)*Stereology Resource Center*, (8)*Cure Autism Now*
- 1:00 **70 130.049**  
Repetitive and Stereotyped Behaviors in Autism Are Driven by Abnormal Development of the Striatum but Not of the Substantia Nigra. K. Nowicki\*<sup>1</sup>, T. Wisniewski<sup>1</sup>, I. Kuchna<sup>1</sup>, J. Wegiel<sup>1</sup>, H. Imaki<sup>1</sup>, S. Y. Ma<sup>1</sup>, I. Cohen<sup>2</sup>, E. London<sup>2</sup>, M. Flory<sup>2</sup>, W. T. Brown<sup>2</sup> and J. Wegiel<sup>1</sup>, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*

## Poster Sessions

### 130 Neuropathology

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **58 130.037**  
Brain Levels of Methionine Synthase mRNA Are Decreased in Autism. R. Deth\* and C. Muratore, *Northeastern University*
- 2:00 **59 130.038**  
Fetal Microglia Become Activated Following Maternal Immune Challenge. L. Pratt\*<sup>1</sup>, N. M. Ponzio<sup>2</sup>, L. Ni<sup>3</sup>, I. Sheng<sup>1</sup> and G. M. Jonakait<sup>3</sup>, (1)*Rutgers University/Newark*, (2)*UMDNJ - New Jersey Medical School*, (3)*Rutgers University/Newark and New Jersey Institute of Technology*
- 3:00 **60 130.039**  
Morphine and Gluten/Casein-Derived Opiate Peptides Inhibit Cysteine Uptake and Decrease Glutathione in Human Neuronal Cells: Implications for the Redox/Methylation Theory of Autism. M. S. Trivedi\*, N. Hodgson and R. Deth, *Northeastern University*

**Poster Sessions**

**130 Treatment**

1:00 PM - 5:30 PM - Franklin Hall B Level 4

- 1:00 **99 130.078**  
Parents of Preschoolers with ASD: Stress, Burnout, and Social Support During 3-Month ABA Training. V. A. Bruce\*, M. N. Gragg, K. Stefanovich and A. Tiede, *University of Windsor*
- 2:00 **100 130.079**  
Pilot Study of Minocycline Treatment for Autism. S. E. Swedo\*<sup>1</sup>, A. W. Buckley<sup>1</sup>, A. Thurm<sup>1</sup>, L. C. Lee<sup>2</sup>, A. Azhagiri<sup>3</sup> and C. A. Pardo<sup>4</sup>, (1)*National Institute of Mental Health, National Institutes of Health*, (2)*Johns Hopkins Bloomberg School of Public Health*, (3)*Johns Hopkins University School of Medicine*, (4)*Johns Hopkins University School of Medicine*
- 3:00 **101 130.080**  
Prediction of Differential Treatment Outcomes of ASD After EIBI. J. Knapp\*, A. Sinoff, T. Frazier and A. Newman, *Cleveland Clinic*
- 1:00 **102 130.081**  
Promoting Imitation and Joint Attention in Preschoolers with Autism Spectrum Disorder. P. Warreyn\* and H. Roeyers, *Ghent University*
- 2:00 **103 130.082**  
Psychotropic Medication Use in Autism Spectrum Disorders (ASD): An Autism Treatment Network Study. P. Manning\*<sup>1</sup>, E. Anagnostou<sup>2</sup>, A. M. Reynolds<sup>3</sup>, L. Cole<sup>4</sup>, R. McCoy<sup>5</sup>, D. Treadwell-Deering<sup>6</sup>, A. Whitaker<sup>7</sup>, J. M. Perrin<sup>8</sup> and D. L. Coury<sup>9</sup>, (1)*Cincinnati Children's Hospital Medical Center*, (2)*Bloorview Research Institute, Bloorview Kids Rehab*, (3)*The Children's Hospital/University of Colorado Denver*, (4)*University of Rochester*, (5)*Oregon Health & Sciences University*, (6)*Baylor College of Medicine*, (7)*Columbia University Medical Center*, (8)*MassGeneral Hospital for Children*, (9)*Nationwide Children's Hospital*
- 3:00 **104 130.083**  
Social Robots Encourage Social Engagement in Children with ASD. E. Kim<sup>1</sup>, D. Leyzberg<sup>1</sup>, B. Scassellati\*<sup>1</sup> and R. Paul<sup>2</sup>, (1)*Yale University*, (2)*Yale University School of Medicine*
- 1:00 **105 130.084**  
The Classroom Practice Inventory: Psychometric Evaluation of a Rating Scale of Early Intervention Practices for Children with Autism Spectrum Disorders. L. Sperry\*<sup>1</sup>, K. Hume<sup>2</sup>, M. McBee<sup>2</sup>, B. Boyd<sup>3</sup>, A. Gutierrez<sup>4</sup>, S. Odom<sup>5</sup> and M. Alessandri<sup>4</sup>, (1)*University of Colorado Denver*, (2)*Frank Porter Graham Child Development Institute, University of North Carolina, Chapel Hill*, (3)*University of North Carolina at Chapel Hill*, (4)*University of Miami*, (5)*University of North Carolina*
- 2:00 **106 130.085**  
The Effects of Olanzapine On QTc in Children with Autistic Disorder. M. Ghaffari\*, S. H. West, R. P. Malone, H. H. Hardison, M. A. Delaney, M. Lech and A. Fuscellaro, *Drexel University College of Medicine*
- 3:00 **107 130.086**  
The Impact of Multisystemic Therapy on Youths with Autism Spectrum Disorder. D. V. Wagner\*<sup>1</sup>, S. M. Kanne<sup>2</sup>, M. O. Mazurek<sup>3</sup>, J. E. Farmer<sup>4</sup> and C. M. Bordin<sup>5</sup>, (1)*University of Missouri, Columbia*, (2)*Thompson Center for Autism and Neurodevelopmental Disorders*, (3)*University of Missouri - Columbia*, (4)*University of Missouri*, (5)*University of Missouri-Columbia*
- 1:00 **108 130.087**  
The Parental Experience of a Home-Based Joint Attention Intervention for Preschoolers with Autism. S. Ferguson\*, *University of Canberra (ACT)*
- 2:00 **109 130.088**  
Understanding Treatment Response in a Pivotal Response Treatments-Based Program for Children with Autistic Spectrum Disorder. K. Fossum<sup>1</sup>, I. M. Smith\*<sup>2</sup> and S. E. Bryson<sup>3</sup>, (1)*Dalhousie University*, (2)*Dalhousie University & IWK Health Centre*, (3)*Dalhousie University/IWK Health Centre*
- 3:00 **110 130.089**  
Use of Complementary and Alternative Medicine (CAM) in Children with Autism Spectrum Disorders (ASD): An Autism Treatment Network (ATN) Study. D. L. Coury\*<sup>1</sup>, E. Anagnostou<sup>2</sup> and P. Manning<sup>3</sup>, (1)*Nationwide Children's Hospital*, (2)*Bloorview Research Institute, Bloorview Kids Rehab*, (3)*Cincinnati Children's Hospital Medical Center*
- 1:00 **111 130.090**  
Using Computer Aided Instruction to Improve Motivation and Learning. C. Whalen\*, *Jigsaw Learning*
- 2:00 **112 130.091**  
Using the Vineland - II to Screen for Psychopathology in Individuals with Autism. K. Wells\*, A. Perry, J. M. Bebko and N. Luthra, *York University*
- 3:00 **113 130.092**  
Visual Attention to Faces Among Preschool Children with Autism Spectrum Disorders: Preliminary Findings From a Randomized Control Trial of a Parent Training Program. D. Ostfield\*<sup>1</sup>, L. Tidmarsh<sup>2</sup>, E. Fombonne<sup>1</sup> and K. Cornish<sup>3</sup>, (1)*McGill University*, (2)*Fraser Health Authority*, (3)*Monash University*
- 1:00 **114 130.093**  
Metabolic Effects of Olanzapine in Children with Autistic Disorder. R. P. Malone\*, M. Ghaffari, S. H. West, H. H. Hardison, M. A. Delaney, M. Lech and A. Fuscellaro, *Drexel University College of Medicine*
- 2:00 **115 130.094**  
Parents of Preschoolers with ASD: Weekly Changes in Feelings of Competency throughout Twelve-Week ABA Training. D. D. Barrie\*, M. N. Gragg, T. M. Carey, B. E. Drouillard and J. L. Scammell, *University of Windsor*
- 3:00 **116 130.095**  
Pilot Study of Mind Reading and in-Vivo Rehearsal for Children with HFASDs. M. L. Thomeer\*<sup>1</sup>, J. D. Rodgers<sup>2</sup>, C. Lopata<sup>1</sup>, M. A. Volker<sup>2</sup> and J. A. Toomey<sup>3</sup>, (1)*Canisius College*, (2)*University at Buffalo, SUNY*, (3)*Summit Educational Resources*
- 1:00 **117 130.096**  
Role of Complementary & Alternative Medicine (CAM) Using Acupuncture (AC) for Autism Spectrum Disorder (ASD). V. C. N. Wong\*, *The University of Hong Kong*,
- 2:00 **118 130.097**  
SENSE Theatre: a Promising Intervention for Children with Autism Spectrum Disorders. B. Corbett\*<sup>1</sup>, J. Gunther<sup>1</sup>, D. Comins<sup>2</sup>, J. Price<sup>3</sup>, N. Ryan<sup>1</sup>, D. Simon<sup>1</sup> and T. Rios<sup>2</sup>, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*M.I.N.D. Institute*, (3)*Davis Musical Theatre*
- 3:00 **119 130.098**  
Social Skills Groups for College Students On the Autism Spectrum. C. D. Jones\*, M. Manzella and C. Oldewage, *University of Puget Sound*
- 1:00 **120 130.099**  
Stress in Parents of 6-Month-Old Infants with Older Siblings with Autism Spectrum Disorders. A. M. Estes\*<sup>1</sup>, S. L. Alvarez<sup>1</sup>, E. Dupont<sup>1</sup>, K. M. Burner<sup>1</sup>, J. Kelly<sup>1</sup>, G. Dawson<sup>2</sup>, J. Munson<sup>1</sup>, B. King<sup>3</sup> and S. J. Webb<sup>1</sup>, (1)*University of Washington*, (2)*UNC Chapel Hill*, (3)*University of Washington and Children's Hospital and Regional Medical Center*



- 2:00 **121 130.100**  
The Double ABCX Model of Adaptation in Racially Diverse Families with a School-Age Child with Autism. M. Manning<sup>\*1</sup> and L. Wainwright<sup>2</sup>, (1)*University of Massachusetts Medical School*, (2)*University of Massachusetts Boston*
- 3:00 **122 130.101**  
The Dyadic Psychoanalytic Treatment of Young Children with Autism Spectrum Disorder. S. P. Sherkow<sup>\*1</sup> and W. Singletary<sup>2</sup>, (1)*New York Psychoanalytic Institute*, (2)*Margaret S. Mahler Psychiatric Research Foundation*
- 1:00 **123 130.102**  
The Effectiveness of Medication Combined with Intensive Behavioral Intervention for Reducing Aggression in Youth with Autism Spectrum Disorder. T. W. Frazier<sup>\*1</sup>, E. Youngstrom<sup>2</sup>, T. Haycook<sup>1</sup>, A. Sinoff<sup>1</sup>, F. Dimitriou<sup>1</sup>, J. Knapp<sup>1</sup> and L. Sinclair<sup>1</sup>, (1)*Cleveland Clinic*, (2)*University of North Carolina at Chapel Hill*
- 2:00 **124 130.103**  
Training in Evidence-Based Pivotal Response Treatments: Exploring Different Models of Parent-Training and Direct Implementation. S. A. Northington<sup>\*</sup> and R. E. Daniels, *Chicago Children's Clinic*
- 3:00 **125 130.104**  
Treatment of Children and Adolescents with Autism Spectrum Disorders with Omega-3 Polyunsaturated Fatty Acids. Description of the Methodology of a Multicenter Randomized Double-Blind Crossover Placebo-Controlled Trial. C. Moreno<sup>\*1</sup>, R. Calvo Escalona<sup>2</sup>, M. Graell Berna<sup>3</sup>, P. M. Ruiz Lazaro<sup>4</sup>, C. Llorente<sup>1</sup> and M. Parellada<sup>1</sup>, (1)*Hospital General Universitario Gregorio Marañón*, (2)*Hospital Clinic i Provincial*, (3)*Hospital Infantil Universitario Niño Jesús*, (4)*Hospital Clínico Lozano Blesa*
- 1:00 **126 130.105**  
Using the Revised ADOS Algorithm to Evaluate a Behavioral Intervention in a Large Public School District. C. M. Harker<sup>\*1</sup>, E. M. Reisinger<sup>2</sup>, A. D. Sherman<sup>1</sup>, S. Shin<sup>2</sup> and D. S. Mandell<sup>1</sup>, (1)*University of Pennsylvania School of Medicine*, (2)*University of Pennsylvania*
- 2:00 **127 130.106**  
You Lead, I'll Follow: Parent-Child Interactions with Infants at Risk for Autism Spectrum Disorder. A. J. Smith<sup>\*1</sup>, A. M. Steiner<sup>2</sup>, G. W. Gengoux<sup>3</sup> and K. Chawarska<sup>1</sup>, (1)*Yale University School of Medicine*, (2)*Yale University*, (3)*Stanford School of Medicine*
- 3:00 **128 130.107**  
Parent-Mediated Intervention for Infants at-Risk for ASD. L. Watson<sup>\*</sup>, G. T. Baranek, L. T. Brown, E. R. Crais, J. S. Reznick, L. Wakeford, L. M. Little, L. Boyd and C. Tashjian, *University of North Carolina at Chapel Hill*
- 1:00 **129 130.108**  
Puberty and Relationships 101: Evaluation of a Group Psycho-Education and Skill Building Curriculum for High Functioning Adolescent Males with Autism Spectrum Disorders. S. Nichols<sup>\*1</sup>, M. Roth<sup>2</sup> and G. Reilly<sup>1</sup>, (1)*Advantage Care Diagnostic and Treatment Center*, (2)*Contemporary Guidance Services*
- 2:00 **130 130.109**  
Recommended Practices for Toddler Autism Intervention: Current Research and Future Needs. H. Schertz<sup>\*1</sup>, C. Baker<sup>2</sup>, S. Hurwitz<sup>3</sup> and L. Benner<sup>1</sup>, (1)*Indiana University*, (2)*University of Northern Colorado*, (3)*University of North Carolina at Chapel Hill*
- 3:00 **131 130.110**  
Systematic Review and Multi-Metric Meta-Analysis of Social Stories™ Research. C. R. Peterson<sup>1</sup>, D. B. McAdam<sup>2</sup>, D. A. Napolitano<sup>2</sup> and J. Breidbord<sup>\*3</sup>, (1)*University of Wisconsin–Stout*, (2)*University of Rochester School of Medicine*, (3)*University of Cambridge*
- 1:00 **132 130.111**  
Systematic Review of Single Subject Design Research On Parent and Teacher Training in ASD. P. Mirenda<sup>\*1</sup>, V. Smith<sup>2</sup>, S. Patterson<sup>2</sup>, L. Mark<sup>1</sup> and S. Verheyden<sup>1</sup>, (1)*University of British Columbia*, (2)*University of Alberta*
- 2:00 **133 130.112**  
Teaching Parents of Children with Autism to Empirically Evaluate Their Child's Interventions. K. L. Berquist<sup>\*1</sup> and M. H. Charlop<sup>2</sup>, (1)*Stanford University School of Medicine*, (2)*Claremont McKenna College*
- 3:00 **134 130.113**  
Teaching Social Skills to Preschool Children with Autism Spectrum Disorders: Examining Treatment Efficacy and Benefit of Continued Participation in the UCLA PALS Program. J. Sanderson<sup>\*</sup>, Y. C. Chang, S. Mallam, R. W. Ellingsen, C. Ferber and E. Laugeson, *UCLA Semel Institute for Neuroscience & Human Behavior*
- 1:00 **135 130.114**  
The Importance of Early Intensive Behavioral Intervention in Very Young Children with ASDs for Core Symptoms and Cognitive Development. M. Foscoliano<sup>\*1</sup>, P. M. Peruzzi<sup>1</sup>, F. Casano<sup>1</sup>, L. Ferretti<sup>1</sup>, R. Fadda<sup>2</sup> and G. Doneddu<sup>3</sup>, (1)*A.O. Brotzu*, (2)*University of Sheffield*, (3)*Azienda Ospedaliera Brotzu*
- 2:00 **136 130.115**  
The Picture Exchange Communication System: More Than a Menu?. J. Koudys<sup>\*</sup>, A. Perry and K. McFee, *York University*
- 3:00 **137 130.116**  
Therapeutic Horseback Riding in Children with Autism Spectrum Disorders. J. A. Agnew<sup>\*1</sup>, R. Gabriels<sup>1</sup>, Z. Pan<sup>1</sup>, K. Holt<sup>1</sup>, S. Martin<sup>1</sup>, G. H. Clayton<sup>1</sup>, S. Ruzzano<sup>1</sup>, H. Bosler<sup>1</sup>, R. Howard<sup>1</sup> and G. Mesibov<sup>2</sup>, (1)*The Children's Hospital/University of Colorado Health Sciences Center*, (2)*University of North Carolina at Chapel Hill*
- 1:00 **138 130.117**  
Treatment Needs of Adolescents with High-Functioning Autism: An Interpretative Phenomenological Analysis Incorporating Multiple Perspectives. T. D. Perry<sup>\*</sup>, B. M. Rupp, L. M. Turner Brown and D. L. Penn, *University of North Carolina*
- 2:00 **139 130.118**  
Use of Complementary and Alternative Medicine in Children with Autism and Controls: Associations with Ethnicity, Child Co-Morbid Symptoms and Parental Stress. M. D. Valicenti-McDermott<sup>\*</sup>, B. Burrows, L. Bernstein, K. Hottinger, K. Lawson, R. M. Seijo, M. Schechtman, L. Shulman and S. Shinnar, *Albert Einstein College of Medicine*
- 3:00 **140 130.119**  
Using Commercially Produced Videos to Teach Receptive Body Part Identification to Young Children with Autism: Pilot Data. K. A. Kroeger<sup>\*1</sup>, A. W. Duncan<sup>1</sup>, L. S. Srivorakiat<sup>2</sup>, S. Breving<sup>2</sup> and K. C. Currans<sup>1</sup>, (1)*Cincinnati Children's Hospital Medical Center*, (2)*Xavier University*
- 1:00 **141 130.120**  
Pilot Testing of a Sleep Training Program for Children with Autism Spectrum Disorders. C. Johnson<sup>\*1</sup> and B. Handen<sup>2</sup>, (1)*University of Pittsburgh*, (2)*Univ of Pittsburgh School of Medicine*

Saturday May 22 – AM			
6:30-1:30P	Registration (Registration Desk One Lvl 5)		
7:00-8:00A	Coffee & Pastries (Grand Ballroom Pre-Function Area Lvl 5)		
8:00-8:15A 8:15-9:15A	Introduction: Simons Foundation (Grand Ballroom A-F Lvl 5) Keynote : Amanda Woodward: "Infants' grasp of others' intentions"		8:00-1:00P Posters & Exhibits (Franklin Hall B Lvl 4) Services, Human Genetics, Neurophysiology, Cognition & Epidemiology
9:15-9:45A	Break (Franklin Hall B Lvl 4)		
9:45-11:45A	IES: Medical Care of Children and Adolescents with ASD: Findings From the Autism Treatment Network (Grand Ballroom F Lvl 5)		
9:45-11:45A	Oral Session: Brain Imaging 2 (Grand Ballroom ELvl 5)	Oral Session: Neuropathology (Grand Ballroom AB Lvl 5)	
11:45-1:00P	Lunch Break		

## Keynote Address

### 131 Infants' Grasp of Others' Intentions

8:15 AM - 9:15 AM - Grand Ballroom A-F Level 5

*Speaker: A. Woodward; University of Maryland*

This talk will consider the early development of social perception in typically developing infants. The perception of others as intentional agents is fundamental to human experience and foundational to development. Recent research reveals that this cornerstone of social perception has its roots early in infancy, and that it draws structure from the universal, early emerging human experience of engaging in goal-directed action. Infants' own action capabilities correlate with their emerging tendency to view others' actions as organized by goals. Moreover, interventions that facilitate new goal-directed actions alter infants' perception of those same actions in others. These effects seem to depend on the first-person aspects of infants' experience. These findings open new questions about how doing leads to knowing in the social domain.

## Invited Educational Symposium

### 132 Medical Care of Children and Adolescents with Autism Spectrum Disorders: Findings From the Autism Treatment Network

9:45 AM - 11:45 AM - Grand Ballroom F Level 5

*Moderator: C. Lajonchere; Autism Genetic Resource Exchange/ Cure Autism Now*

Knowledge of medical conditions that accompany ASD is limited. Recommendations for evaluation and management are often based on small case series and reports, and supporting data have not been consistent. Common medical problems include gastrointestinal symptoms, sleep problems, and seizures. The Autism Treatment Network (ATN) was formed to advance understanding of medical comorbidities of ASD and to use this knowledge to shape best practices. This session will (1) describe common medical comorbidities seen in children and adolescents with ASD using data from the ATN patient registry of over 1200 individuals, and (2) discuss approaches to treatment. Panelists will discuss methods of screening,

evaluation, and treatment of gastrointestinal, sleep and EEG abnormalities; development of evidence-based guidelines for managing medical co-morbidities; and newly initiated research studies regarding the physical health of children and adolescents with ASD.

- 9:45 **132.001**  
Introductory Remarks.
- 10:00 **132.002**  
ASD and GI Co-morbidities: What do we know?. G. J. Fuchs\*,  
*University of Arkansas for Medical Sciences*
- 10:25 **132.003**  
Sleep disorders in ASD - Diagnosis and Treatment. B. A. Malow\*,  
*Vanderbilt University*
- 10:50 **132.004**  
EEG Abnormalities: Identification and significance. S. E. Swedo\*,  
*National Institute of Mental Health, National Institutes of Health*
- 11:15 **132.005**  
Next Steps: Clinical Guidelines and Research in Progress. D. L. Coury\*,  
*Nationwide Children's Hospital*

## Oral Sessions

### 133 Brain Imaging 2

9:45 AM - 11:45 AM - Grand Ballroom E Level 5

- 9:45 **133.001**  
Growth Curves for Longitudinal Regional Brain Volumes in Autism Vs. Typical Development. J. E. Lainhart\*<sup>1</sup>, C. Ravichandran<sup>2</sup>, A. Froehlich<sup>1</sup>, M. B. DuBray<sup>1</sup>, T. Abildskov<sup>3</sup>, E. Bigler<sup>1</sup>, A. L. Alexander<sup>4</sup> and N. Lange<sup>5</sup>, (1)*University of Utah*, (2)*McLean Hospital/Harvard Medical School*, (3)*Brigham Young University*, (4)*University of Wisconsin*, (5)*Harvard University*
- 10:00 **133.002**  
An Examination of Brain Size in Infants at High Risk for Autism: Preliminary Findings From the Infant Brain Imaging Study. H. C. Hazlett\*<sup>1</sup>, K. Botteron<sup>2</sup>, H. Gu<sup>3</sup>, R. McKinstry<sup>4</sup>, S. Paterson<sup>5</sup>, M. Styner<sup>6</sup> and J. Piven<sup>3</sup>, (1)*University of NC*, (2)*Washington University*, (3)*University of North Carolina*, (4)*Washington University in St. Louis*, (5)*University of Pennsylvania and Children's Hospital of Philadelphia*, (6)*UNC*
- 10:15 **133.003**  
Subgroups of Abnormal Growth Trajectories: A Longitudinal Analysis of Amygdala Growth in Young Children with Autism. C. W. Nordahl\*, R. C. Scholz, T. J. Simon, S. J. Rogers and D. G. Amaral,  
*M.I.N.D. Institute, University of California at Davis*

- 10:30 **133.004**  
Multimodal MRI Analysis of White Matter in Young Children with Autism: A Diffusion Tensor Imaging, Tractography, and Structural MRI Study. M. Shen<sup>\*1</sup>, C. W. Nordahl<sup>1</sup>, R. C. Scholz<sup>1</sup>, L. M. Perry<sup>2</sup>, R. F. Dougherty<sup>2</sup>, T. J. Simon<sup>1</sup>, S. J. Rogers<sup>1</sup>, B. A. Wandell<sup>2</sup> and D. G. Amaral<sup>1</sup>, (1)*M.I.N.D. Institute, University of California at Davis*, (2)*Stanford University*
- 10:45 **133.005**  
Brain Anatomy in Adult Autism: a Multi-Centre Neuroimaging Study. C. Ecker<sup>\*1</sup> and M. R. C. AIMS Consortium<sup>2</sup>, (1)*Institute of Psychiatry, King's College London*, (2)*University of Cambridge; Institute of Psychiatry, King's College London; University of Oxford*
- 11:00 **133.006**  
Atypical Asymmetry of Superior Temporal Gyrus and Temporal Stem White Matter Microstructure in Autism. N. Lange<sup>\*1</sup>, M. B. DuBray<sup>2</sup>, J. E. Lee<sup>3</sup>, M. P. Froimowitz<sup>4</sup>, A. Froehlich<sup>2</sup>, N. Adluru<sup>5</sup>, B. Wright<sup>2</sup>, C. Ravichandran<sup>6</sup>, P. T. Fletcher<sup>2</sup>, E. Bigler<sup>2</sup>, A. L. Alexander<sup>3</sup> and J. E. Lainhart<sup>2</sup>, (1)*Harvard University*, (2)*University of Utah*, (3)*University of Wisconsin*, (4)*McLean Hospital*, (5)*University of Wisconsin-Madison*, (6)*McLean Hospital/Harvard Medical School*
- 11:15 **133.007**  
Altered Functional Connectivity During Rest is Related to 5-HTTLPR Genotype in Autism Spectrum Disorders. J. L. Wiggins<sup>\*</sup>, S. J. Peltier, J. K. Bedoyan, S. Ashinoff, S. J. Weng, M. Carrasco, R. C. Welsh, C. Lord, D. M. Martin and C. S. Monk, *University of Michigan*
- 11:30 **133.008**  
A Preliminary Investigation of GAD65 and Cortical Morphometry in ASD. P. Johnston<sup>\*</sup>, C. Ecker, E. Daly, C. M. Murphy, J. Powell and D. G. Murphy, *Institute of Psychiatry, King's College London*
- 10:45 **134.005**  
GI Symptoms in Autism Spectrum Disorders(ASD): An Autism Treatment Network Study. K. C. Williams<sup>\*1</sup>, G. J. Fuchs<sup>2</sup>, G. T. Furuta<sup>3</sup>, M. Marcon<sup>4</sup>, D. L. Coury<sup>5</sup> and A. T. N. GI Subcommittee<sup>6</sup>, (1)*Vanderbilt University Medical Center*, (2)*University of Arkansas for Medical Sciences*, (3)*University of Colorado at Denver*, (4)*Hospital for Sick Children*, (5)*Nationwide Children's Hospital*, (6)*N/A*
- 11:00 **134.006**  
Genetic and Environmental Influences On the Overlap Between Autistic-Like Traits and ADHD Behaviors in Early Childhood. A. Ronald<sup>\*1</sup>, L. R. Edelson<sup>2</sup>, P. Asherson<sup>3</sup> and K. J. Saudino<sup>2</sup>, (1)*Birkbeck College, University of London*, (2)*Boston University*, (3)*Institute of Psychiatry*
- 11:15 **134.007**  
Screening for Autism Spectrum Disorders in Children with Down Syndrome in New York State. E. S. Kuschner<sup>\*1</sup>, S. Hyman<sup>2</sup>, E. van Wijngaarden<sup>2</sup>, C. I. Magyar<sup>1</sup>, S. B. Sulkes<sup>1</sup>, A. Diehl<sup>2</sup>, N. J. Roizen<sup>3</sup> and C. M. Druschel<sup>4</sup>, (1)*University of Rochester Medical Center*, (2)*University of Rochester*, (3)*Case Western Reserve*, (4)*New York State Department of Health Congenital Malformations Registry*
- 11:30 **134.008**  
Testing Epilepsy Candidate Genes in Autism. M. L. Cuccaro<sup>\*1</sup>, R. Tuchman<sup>1</sup>, D. Ma<sup>2</sup>, E. R. Martin<sup>2</sup>, R. K. Abramson<sup>3</sup>, H. H. Wright<sup>3</sup>, J. Gilbert<sup>4</sup>, J. P. Hussman<sup>5</sup> and M. A. Pericak-Vance<sup>2</sup>, (1)*University of Miami*, (2)*Hussman Institute for Human Genomics*, (3)*University of South Carolina School of Medicine*, (4)*University of Miami Miller School of Medicine*, (5)*Hussman Foundation*

## Oral Sessions

### 134 Comorbidities

9:45 AM - 11:45 AM - Grand Ballroom CD Level 5

- 9:45 **134.001**  
A Genetic Epidemiological Approach to the Sensory Over-Responsivity Phenotype. H. H. Goldsmith<sup>\*</sup>, C. Van Hulle and N. L. Schmidt, *The University of Wisconsin-Madison*
- 10:00 **134.002**  
Association Between Inherited and Congenital Diseases and Autism Spectrum Disorders: A Nation-Wide Register-Based Study. M. B. Lauritsen<sup>\*1</sup> and E. Parner<sup>2</sup>, (1)*Regional Centre for Child and Adolescent Psychiatry, Aarhus University Hospital*, (2)*University of Aarhus*
- 10:15 **134.003**  
Co-Occurring Epilepsy Among Children with Autistic Spectrum Disorder: Results From the Missouri ADDM Epilepsy Surveillance System. R. Fitzgerald<sup>\*1</sup>, E. Trevathan<sup>2</sup>, C. Soke<sup>1</sup>, A. Hoog<sup>1</sup> and J. N. Constantino<sup>1</sup>, (1)*Washington University School of Medicine*, (2)*Centers for Disease Control and Prevention*
- 10:30 **134.004**  
Decreased Levels of Total Immunoglobulin in Children with Autism Is Not a Result of B-Cell Dysfunction. L. S. Heuer<sup>\*1</sup>, M. Rose<sup>2</sup>, P. Ashwood<sup>3</sup> and J. Van de Water<sup>2</sup>, (1)*University of California, Davis*, (2)*University of California at Davis*, (3)*M.I.N.D. Institute, University of California at Davis*

## Oral Sessions

### 135 Neuropathology 1

9:45 AM - 11:45 AM - Grand Ballroom AB Level 5

- 9:45 **135.001**  
Altered Cytoarchitecture, Decreased GABA and Serotonin Receptor Subtypes, but Normal Density of Neurons and Interneurons in the Posterior Cingulate Cortex and Fusiform Gyrus in Autism. A. Oblak<sup>\*1</sup>, T. Gibbs<sup>1</sup>, T. Kemper<sup>1</sup>, M. L. Bauman<sup>2</sup> and G. Blatt<sup>1</sup>, (1)*Boston University School of Medicine*, (2)*MassGeneral Hospital for Children/Harvard Medical School; Boston University School of Medicine*
- 10:00 **135.002**  
Association of Autism with Polyomavirus Infection in Postmortem Brains. C. Lintas, L. Altieri, F. Lombardi, R. Sacco and A. M. Persico<sup>\*</sup>, *Univ. Campus Bio-Medico*
- 10:15 **135.003**  
Cathepsin D and Apoptosis Related Proteins Are Altered in the Brain of Autistic Subjects. A. Sheikh<sup>\*</sup>, X. Li, G. Wen, Z. Tauqeer, W. T. Brown and M. Malik, *NYS Institute for Basic Research in Developmental Disabilities*
- 10:30 **135.004**  
Decreased GABAergic Biomarkers in Cerebellar, Limbic and Cortical Areas in Autism: Neuropathological and Developmental Implications. G. Blatt<sup>\*</sup>, A. Oblak, T. Gibbs and J. J. Soghomonian, *Boston University School of Medicine*

# Program

- 10:45 **135.005**  
Defects of Neurogenesis, Neuronal Migration and Dysplastic Changes in the Brains of Autistic Subjects. J. Wegiel\*<sup>1</sup>, I. Kuchna<sup>1</sup>, K. Nowicki<sup>1</sup>, H. Imaki<sup>1</sup>, J. Wegiel<sup>1</sup>, E. Marchi<sup>1</sup>, S. Y. Ma<sup>1</sup>, A. Chauhan<sup>2</sup>, V. Chauhan<sup>2</sup>, I. Cohen<sup>2</sup>, E. London<sup>2</sup>, W. T. Brown<sup>2</sup> and T. Wisniewski<sup>1</sup>, (1)*New York State Institute for Basic Research in Developmental Disabilities*, (2)*NYS Institute for Basic Research in Developmental Disabilities*
- 11:00 **135.006**  
Increased Protein Oxidation in Cerebellum, Frontal and Temporal Cortex in Autism. A. Chauhan\*<sup>1</sup>, M. M. Essa<sup>2</sup>, B. Muthaiyah<sup>1</sup>, W. T. Brown<sup>1</sup>, J. Wegiel<sup>3</sup> and V. Chauhan<sup>1</sup>, (1)*NYS Institute for Basic Research in Developmental Disabilities*, (2)*Sultan Qaboos University, College of Agricultural and Marine Sciences*, (3)*New York State Institute for Basic Research in Developmental Disabilities*
- 11:15 **135.007**  
Quantification of the Gray/White Matter Boundary in ASD. T. A. Avino\* and J. J. Hutsler, *University of Nevada, Reno*
- 11:30 **135.008**  
The Relationship Between Foetal Testosterone Exposure, Head Circumference, and Repetitive Behaviours in Typically Developing Preschool and Older Children. J. C. Sullivan\*, B. Auyeung, T. Tavassoli, V. Pütz, S. Suessenbachers, A. Humphrey and S. Baron-Cohen, *University of Cambridge*
- ## Poster Sessions
- ### 136 Cognition
- 8:00 AM - 1:00 PM - Franklin Hall B Level 4
- 9:00 **1 136.001**  
Executive Functioning Profiles in Children with Autism Spectrum Disorders. K. D. Tsatsanis\*, J. Tirrell, M. Levine and P. Ventola, *Yale University*
- 10:00 **2 136.002**  
Gesture as a Methodological Tool? Adolescents with ASD Use Their Hands to Explain Balance. C. V. Dombrowski\*, A. B. de Marchena and I. M. Eigsti, *University of Connecticut*
- 11:00 **3 136.003**  
High/Low Autism Spectrum Behaviors and Executive Function. R. Pytlik\*, F. R. Ferraro, R. Brindley and K. Schroeder, *University of North Dakota*
- 9:00 **4 136.004**  
Impaired Detection of Temporal Synchrony for Social and Nonsocial Events in Children with Autism Spectrum Disorders. L. E. Bahrick, J. T. Todd, M. Vaillant-Molina, B. M. Sorondo\* and C. H. Ronacher, *Florida International University*
- 10:00 **5 136.005**  
No Autistic Advantage in Inspection Time When Groups Are Matched Using the Raven's Progressive Matrices. E. B. Barbeau\*<sup>1</sup>, I. Soulières<sup>1</sup>, T. A. Zeffiro<sup>2</sup> and L. Mottron<sup>1</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Neural Systems Group, Massachusetts General Hospital*
- 11:00 **6 136.006**  
Non-Spatial Auditory Information Does Not Improve Complex Visual Search for Persons with Autism and Asperger Syndrome : « Pip » but No « Pop ». O. Collignon\*<sup>1</sup>, G. Charbonneau<sup>1</sup>, M. Nassim<sup>2</sup>, F. Peters<sup>3</sup>, M. Lassonde<sup>1</sup>, L. Mottron<sup>2</sup>, F. Lepore<sup>1</sup> and A. Bertone<sup>2</sup>, (1)*Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Canada*, (2)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (3)*Centre de Recherche, Institut Universitaire de Gériatrie de Montréal (CRIUGM), Canada*
- 9:00 **7 136.007**  
Perception in Autism, 2006 - 2009: Updating the Enhanced Perceptual Functioning Model. L. Mottron\*<sup>1</sup>, I. Soulières<sup>1</sup>, F. Samson<sup>1</sup>, A. C. Bonne<sup>1</sup>, J. A. Burack<sup>1</sup>, A. Bertone<sup>1</sup>, T. A. Zeffiro<sup>2</sup> and M. Dawson<sup>1</sup>, (1)*Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)*, (2)*Neural Systems Group, Massachusetts General Hospital*
- 10:00 **8 136.008**  
Relationship Between Executive Functioning, Autistic Symptomatology, and Adaptive Behavior. P. Ventola\*, M. Levine, J. Tirrell and K. D. Tsatsanis, *Yale University*
- 11:00 **9 136.009**  
Remembering and Knowing Old-New Word Effects in Autism Spectrum Disorder. E. Massand\* and D. M. Bowler, *City University, London*
- 9:00 **10 136.010**  
Social and Non-Social Memory in Children and Adolescents with ASD. R. S. Brezis\*<sup>1</sup>, O. L. T. Wong<sup>2</sup> and J. Piggot<sup>2</sup>, (1)*University of Chicago*, (2)*University of California, Los Angeles*
- 10:00 **11 136.011**  
Social Versus Memory Demands On Cognitive Set Shifting. O. Johnston\*, S. E. White, A. Clawson, E. Krauskopf, M. J. Larson and M. South, *Brigham Young University*
- 11:00 **12 136.012**  
Strategic Influences On Face Processing in Autism Spectrum Conditions, Dyslexia and Typical Development. C. A. Palmer\*, K. Plaisted Grant and G. J. Davis, *University of Cambridge*
- 10:00 **14 136.014**  
The Role of Integration in the Memory Deficits of ASC. L. Maister\* and K. C. Plaisted-Grant, *University of Cambridge*
- 11:00 **15 136.015**  
An Understanding of Sharing, Following, and Directing Attention and Behaviour in Children with Autism. J. M. Normand\* and B. D'Entremont, *University of New Brunswick*
- 9:00 **16 136.016**  
Anticipatory Capacity for Social Interactions and Verbal Communication in Individuals with Autism. E. Poljac\*<sup>1</sup>, K. Dahlslätt<sup>1</sup>, J. K. Buitelaar<sup>2</sup> and H. Bekkering<sup>1</sup>, (1)*Radboud University Nijmegen*, (2)*Radboud University Nijmegen Medical Centre, Nijmegen Centre for Evidence-Based Practice*
- 10:00 **17 136.017**  
Deficit in Visual Temporal Integration in Autism Spectrum Disorders. T. Nakano\*<sup>1</sup>, H. Ota<sup>2</sup>, N. Kato<sup>2</sup> and S. Kitazawa<sup>1</sup>, (1)*Juntendo University School of Medicine*, (2)*Showa University School of Medicine*
- 11:00 **18 136.018**  
Exploring Alexithymia in Autism Via Musically Induced Emotions. R. J. Allen\*<sup>1</sup>, P. Heaton<sup>2</sup> and E. Hill<sup>1</sup>, (1)*Goldsmiths, University of London*, (2)*Goldsmiths College, University of London*

- 9:00 **19 136.019**  
Eye Gaze Patterns of Young Children with Autism and the Broader Autism Phenotype During a Dynamic Social Interaction Task. L. Sepeta\*, K. Quach, T. Hutman, M. Dapretto, M. Sigman, S. P. Johnson and S. Y. Bookheimer, *University of California, Los Angeles*
- 10:00 **20 136.020**  
Is Source Memory Impairment Specific to Social Stimuli in High Functioning Autism Spectrum Disorder?. E. Gilbert\*<sup>1</sup>, K. Morasse<sup>2</sup> and N. Rouleau<sup>3</sup>, (1)*Centre de recherche Université Laval Robert-Giffard*, (2)*Hôtel-Dieu de Lévis*, (3)*Université Laval*
- 11:00 **21 136.021**  
Nature of Explicit Learning Differences in ASC: Deficits in Applying Explicit Sequence Knowledge. J. Brown\*<sup>1</sup>, L. Jiménez<sup>2</sup> and K. C. Plaisted<sup>1</sup>, (1)*University of Cambridge*, (2)*University of Santiago*
- 9:00 **22 136.022**  
Speed of Responding in ASDs: A Look at the First Seconds of Processing. J. M. Bebko\*, S. M. Brown and C. A. McMorris, *York University*
- 10:00 **23 136.023**  
Temporo-Spatial Gaze Patterns in Autistic Children and Adults While Viewing Video Stories. T. Nakano<sup>1</sup>, K. Tanaka<sup>1</sup>, H. Ota<sup>2</sup>, N. Kato<sup>2</sup> and S. Kitazawa\*<sup>1</sup>, (1)*Juntendo University School of Medicine*, (2)*Showa University School of Medicine*
- 11:00 **24 136.024**  
The Cognitive Interview for Witnesses with Autism Spectrum Disorder. K. L. Maras\* and D. M. Bowler, *City University, London*
- 9:00 **25 136.025**  
The Perception and Pose of Emotional Expressions in Adolescents with Autism. E. Back\*<sup>1</sup>, H. Hunt<sup>1</sup> and A. Lindell<sup>2</sup>, (1)*Kingston University London*, (2)*La Trobe University*
- 10:00 **26 136.026**  
The Role of Secondary Executive Function Demands in the Manifestation of Inhibitory Difficulties in Individuals with Autism. A. Moffitt\*, K. E. Bodner, L. Brubaker, J. H. Miles and S. E. Christ, *University of Missouri*
- 11:00 **27 136.027**  
To What Extent is Poor Theory of Mind Task Performance in Autism Due to Diminished Theory of Mind Competence? The Importance of Control Tasks. S. E. Lind\* and D. M. Bowler, *City University, London*
- 10:00 **29 136.029**  
Emotion Understanding in Children with Autistic Spectrum Disorders From a Longitudinal Perspective. S. Wiesendanger\*<sup>1</sup>, E. Thommen<sup>2</sup>, B. Cartier-Nelles<sup>3</sup>, A. Guidoux<sup>3</sup> and F. Pons<sup>4</sup>, (1)*University of Applied Sciences Western Switzerland of Lausanne (EESP)*, (2)*University of Fribourg and University of Applied Sciences Western Switzerland of Lausanne (EESP), Switzerland*, (3)*University of Applied Sciences Western Switzerland of Lausanne*, (4)*University of Oslo*
- 11:00 **30 136.030**  
Executive Functions in Asperger's Disorder: An Empirical Investigation of Verbal and Nonverbal Skills. A. McCrimmon\*<sup>1</sup>, V. Schwan<sup>1</sup>, D. Saklofske<sup>1</sup>, J. Montgomery<sup>2</sup>, D. Brady<sup>1</sup>, K. Thorne<sup>1</sup> and Y. Hindes<sup>1</sup>, (1)*University of Calgary*, (2)*University of Manitoba*
- 9:00 **31 136.031**  
From Test Scores to ASD Diagnosis: A Bayesian Approach. S. V. Huemer\*, *University of California, Irvine*
- 10:00 **32 136.032**  
Intact and Impaired Conceptual Reasoning Abilities in High Functioning Autism. R. X. Glosser\*<sup>1</sup>, D. L. Williams<sup>2</sup>, C. A. Mazefsky<sup>1</sup>, N. J. Minshew<sup>3</sup> and G. Goldstein<sup>4</sup>, (1)*University of Pittsburgh-Center for Excellence in Autism Research*, (2)*Duquesne University*, (3)*University of Pittsburgh School of Medicine*, (4)*VA Pittsburgh Healthcare System*
- 11:00 **33 136.033**  
Memory for Detail in High-Functioning Children and Adults with Autism. J. M. Griebeling\*<sup>1</sup>, C. A. Mazefsky<sup>1</sup>, D. L. Williams<sup>2</sup> and N. J. Minshew<sup>1</sup>, (1)*University of Pittsburgh School of Medicine*, (2)*Duquesne University*
- 9:00 **34 136.034**  
No Difficulties in Extracting Subtle Emotional Cues From Social Contexts in Children with An Autism Spectrum Disorder. K. Evers\*<sup>1</sup>, J. Steyaert<sup>2</sup>, I. L. J. Noens<sup>1</sup> and J. Wagemans<sup>1</sup>, (1)*Katholieke Universiteit Leuven*, (2)*UPC-K.U.Leuven*
- 10:00 **35 136.035**  
Sensory Integration From Different Perspectives. M. Boman\*<sup>1</sup>, G. R. Mancil<sup>2</sup> and Z. Mailloux<sup>3</sup>, (1)*Kelly Autism Program at Western Kentucky University*, (2)*University of Louisville*, (3)*Pediatric Therapy Network*
- 11:00 **36 136.036**  
The Influence of Communicative Cues On Short-Term Memory in Children with ASD and TD. E. J. H. Jones\*, K. M. Venema, R. T. Lowy and R. Bernier, *University of Washington*
- 9:00 **37 136.037**  
The Mid-Band Spatial Frequency Bias in Face Recognition: A Cross-Syndrome Developmental Study of Autism and Williams Syndrome. H. C. Leonard\*<sup>1</sup>, D. Annaz<sup>2</sup>, A. Karmiloff-Smith<sup>1</sup> and M. H. Johnson<sup>1</sup>, (1)*Birkbeck, University of London*, (2)*Middlesex University*
- 10:00 **38 136.038**  
The Predictability of Eye Movements in ASD. M. Freeth\*<sup>1</sup>, T. Foulsham<sup>2</sup> and P. Chapman<sup>3</sup>, (1)*University of Sheffield*, (2)*University of British Columbia*, (3)*University of Nottingham*
- 11:00 **39 136.039**  
The Relationship Between Executive Function and Social Competence Intervention (SCI) Outcomes Among Adolescents with An Autism Spectrum Disorder. S. E. Christ\*<sup>1</sup>, J. Stichter<sup>2</sup>, K. Visovsky<sup>1</sup>, A. Moffitt<sup>1</sup> and M. Herzog<sup>1</sup>, (1)*University of Missouri*, (2)*Department of Special Education*
- 9:00 **40 136.040**  
Unsystematic and Non-Optimal Large-Scale Search in Autism Spectrum Disorder. E. Pellicano\*<sup>1</sup>, A. D. Smith<sup>2</sup>, F. Cristino<sup>3</sup>, J. Briscoe<sup>3</sup>, B. Hood<sup>3</sup> and I. D. Gilchrist<sup>3</sup>, (1)*Institute of Education*, (2)*University of Nottingham*, (3)*University of Bristol*
- 10:00 **41 136.041**  
"Thinking in Speech" Amongst Individuals with Autism Spectrum Disorder (ASD): The Relations Between Inner Speech and Short-Term Memory, Executive Functioning, and Clinical Features. D. M. Williams\*<sup>1</sup>, C. Jarrold<sup>2</sup> and D. M. Bowler<sup>3</sup>, (1)*City University*, (2)*University of Bristol*, (3)*City University, London*

**Poster Sessions**

**136 Epidemiology**

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **69 136.069**  
Autism Spectrum Disorders Among 4, 8, and 15 Year Olds in 2006-2007. L. King\*, L. A. Carpenter, J. Charles, W. Jenner and J. Nicholas, *Medical University of South Carolina*
- 10:00 **70 136.070**  
Epidemiological Study of Autism in Tianjin, China. C. Y. Wang\*, *Nankai University*
- 11:00 **71 136.071**  
Finnish Prenatal Study of Autism and Autism Spectrum Disorders (FIPS-A): Design and Overview. K. M. Lampi\*<sup>1</sup>, P. N. Banerjee<sup>2</sup>, M. Ikonen<sup>1</sup>, S. Hinkka-Yli-Salomäki<sup>1</sup>, H. Helenius<sup>1</sup>, I. W. McKeague<sup>3</sup>, A. S. Brown<sup>2</sup> and A. Sourander<sup>1</sup>, (1)*University of Turku*, (2)*Columbia University/NYSPI*, (3)*Columbia University*
- 9:00 **72 136.072**  
Parenting Stress Associated with Autism Spectrum Disorders, 2007 National Survey of Children's Health. L. A. Schieve\*<sup>1</sup>, S. Boulet<sup>1</sup>, M. D. Kogan<sup>2</sup>, M. Yeargin-Allsopp<sup>1</sup>, C. A. Boyle<sup>1</sup>, S. Visser<sup>1</sup>, S. J. Blumberg<sup>1</sup> and C. E. Rice<sup>3</sup>, (1)*Centers for Disease Control and Prevention*, (2)*HRSA*, (3)*National Center on Birth Defects and Developmental Disabilities*
- 10:00 **73 136.073**  
Paternal Age and Autism Spectrum Disorder (ASD) Versus ADHD in the Offspring. L. Gabis\*, R. Raz, Y. Kesner Baruch and B. Reichman, *Sheba Medical Center*
- 11:00 **74 136.074**  
Pharmacotherapy of ASD Children in 2006: Findings From the New Jersey Autism Study. J. Shenouda\*<sup>1</sup>, D. Rosivack<sup>1</sup>, B. Peng<sup>1</sup>, R. Baltus<sup>1</sup> and W. Zahorodny<sup>2</sup>, (1)*New Jersey Medical School - University of Medicine and Dentistry of New Jersey*, (2)*University of Medicine and Dentistry of New Jersey*
- 9:00 **75 136.075**  
Prescription Drug Rates Among Children with Autism Spectrum Disorders (ASD). S. L. Logan\*, L. King, J. Nicholas, J. Charles, L. Carpenter and T. Hulsey, *Medical University of South Carolina*
- 10:00 **76 136.076**  
Prevalence of Autism Spectrum Disorders In a Population of Children with Intellectual Disabilities. J. Charles\*, J. Nicholas, L. Carpenter, L. King and W. Jenner, *Medical University of South Carolina*
- 11:00 **77 136.077**  
Response Inhibition to Emotional Facial Expressions in Children with Autism Spectrum Disorders. K. F. Jankowski\*<sup>1</sup>, J. Phillips<sup>1</sup>, G. L. Wallace<sup>2</sup>, L. Kenworthy<sup>1</sup>, R. Oliveras-Rentas<sup>3</sup> and B. Yerys<sup>4</sup>, (1)*Children's National Medical Center*, (2)*National Institute of Mental Health, National Institutes of Health*, (3)*Ponce Center for Autism*, (4)*Children's National Medical Center, George Washington University*
- 9:00 **78 136.078**  
The Association of Maternal Infection Requiring Hospitalization During Pregnancy and Autism Spectrum Disorder: An Exploratory Danish Cohort Study. H. O. Atladóttir\*<sup>1</sup>, P. Thorsen<sup>2</sup>, L. Østergaard<sup>3</sup>, D. E. Schendel<sup>4</sup>, S. Lemcke<sup>5</sup>, M. Abdallah<sup>6</sup> and E. Parner<sup>7</sup>, (1)*Institut of Public Health, Department of Epidemiology*, (2)*Atlanta*, (3)*Skejby Hospital*, (4)*Centers for Disease Control & Prevention*, (5)*Aarhus University Hospital*, (6)*Aarhus University*, (7)*University of Aarhus*
- 10:00 **79 136.079**  
ASD Diagnosed and Then Ruled out by Community Professionals in a Population-Based Study. J. Baio<sup>1</sup>, L. D. Wiggins\*<sup>2</sup> and C. E. Rice<sup>1</sup>, (1)*National Center on Birth Defects and Developmental Disabilities*, (2)*Centers for Disease Control and Prevention*
- 11:00 **80 136.080**  
Association Between Assisted Reproductive Technology and Autism Spectrum Disorders. P. A. Davis\*<sup>1</sup>, K. Hollenbach<sup>2</sup>, K. Schmidt<sup>1</sup>, C. Ferrone<sup>1</sup> and M. L. Bauman<sup>3</sup>, (1)*MassGeneral Hospital for Children/Harvard Medical School*, (2)*University of California, San Diego*, (3)*MassGeneral Hospital for Children/Harvard Medical School; Boston University School of Medicine*
- 9:00 **81 136.081**  
Associations Between Maternal Affective Disorders and Specific Characteristics in Children with Autism Spectrum Disorder. R. A. Vasa\*, C. Anderson, J. M. Thorn, A. R. Marvin, G. Sarphare, K. Law and P. Law, *Kennedy Krieger Institute*
- 10:00 **82 136.082**  
Breastfeeding and Autism. P. G. Williams\* and L. L. Sears, *University of Louisville*
- 11:00 **83 136.083**  
Clinical and Neuro-Psychological Profile of Autism in Saudi Arabia: A Systematic Approach. A. Almuslamani\*, L. J. Al-Sharif, D. S. Khalil, J. M. Shinwari, H. Khalak, N. A. Al Tassan, B. F. Meyer, M. Nester and M. Aldosari, *King Faisal Specialist Hospital and Research Center*
- 9:00 **84 136.084**  
Factor Structure of the Q-CHAT, a Revised Screening Instrument for Autism Spectrum Conditions in Toddlers Between 18 - 24 Months. C. Allison\*<sup>1</sup>, G. Pasco<sup>1</sup>, S. J. Wheelwright<sup>1</sup>, T. Charman<sup>2</sup>, C. Brayne<sup>1</sup> and S. Baron-Cohen<sup>1</sup>, (1)*University of Cambridge*, (2)*Institute of Education, University of London*
- 10:00 **85 136.085**  
Gene-Environment Related Epidemiological Research On Autism in Jamaica. M. H. Rahbar\*<sup>1</sup>, K. A. Loveland<sup>2</sup>, M. Samms-Vaughan<sup>3</sup>, E. Boerwinkle<sup>4</sup>, J. Bressler<sup>4</sup>, D. del Junco<sup>5</sup>, D. A. Pearson<sup>2</sup>, P. Assassi<sup>5</sup>, S. Pellington<sup>3</sup>, M. L. Grove<sup>4</sup>, K. Bloom<sup>5</sup>, C. Beecher<sup>3</sup>, K. Brooks<sup>6</sup> and M. Ardjomand-Hessabi<sup>5</sup>, (1)*University of Texas School of Public Health*, (2)*University of Texas Medical School at Houston*, (3)*The University of the West Indies*, (4)*The University of Texas School of Public Health*, (5)*The University of Texas Health Science Center at Houston*, (6)*Tropical Metabolism Research Institute*
- 11:00 **86 136.086**  
Parental and Grandparental Ages in the Autistic Spectrum Disorders. C. D. Steer, J. Golding\* and M. Pembrey, *University of Bristol*
- 9:00 **87 136.087**  
Prevalence Rates of Autism Spectrum Disorders Among the Old Order Amish. J. L. Robinson\*<sup>1</sup>, L. Nations<sup>1</sup>, N. Suslowitz<sup>2</sup>, M. L. Cuccaro<sup>3</sup>, J. Haines<sup>2</sup> and M. Pericak-Vance<sup>1</sup>, (1)*University of Miami Miller School of Medicine*, (2)*Vanderbilt University*, (3)*University of Miami School of Medicine*
- 10:00 **88 136.088**  
Season of Birth and Risk of Autism in a Finnish National Birth Cohort. P. N. Banerjee\*<sup>1</sup>, K. M. Lampi<sup>2</sup>, M. Ikonen<sup>2</sup>, S. Hinkka-Yli-Salomäki<sup>2</sup>, S. Niemelä<sup>2</sup>, H. Helenius<sup>2</sup>, I. W. McKeague<sup>3</sup>, A. S. Brown<sup>1</sup> and L. A. Sourander<sup>2</sup>, (1)*Columbia University/NYSPI*, (2)*University of Turku*, (3)*Columbia University*

- 11:00 **89 136.089**  
AUTISM Spectrum Disorder: The BRAZILIAN Research Capacity. M. C. Teixeira<sup>1</sup>, M. T. Mercadante<sup>2</sup> and C. S. Paula<sup>3</sup>, (1)*Mackenzie P University*, (2)*Federal University of São Paulo*, (3)*Universidade Presbiteriana Mackenzie*
- 9:00 **90 136.090**  
Demographic Distribution of Children with Autism Spectrum Disorder in Qatar. O. M. Ghoneim\*, R. A. Al-Okka and S. J. Al-Naimi, *Qatar University*
- 10:00 **91 136.091**  
Frequency of Interventions to Children with ASD in the Pre-School Period: Findings From the New Jersey Autism Study. D. Rosivack<sup>1</sup>, J. Shenouda<sup>1</sup>, B. Peng<sup>1</sup> and W. Zahorodny<sup>2</sup>, (1)*New Jersey Medical School - University of Medicine and Dentistry of New Jersey*, (2)*University of Medicine and Dentistry of New Jersey*
- 11:00 **92 136.092**  
Identification of Asperger Disorder (AD): a Pilot Study in Gipuzkoa, Spain. J. Fuentes<sup>1</sup>, A. Altxu<sup>2</sup>, N. Tamayo<sup>3</sup>, A. Porcel<sup>3</sup>, I. Isasa<sup>3</sup>, I. Gallano<sup>4</sup>, R. Canal<sup>5</sup> and M. Posada<sup>6</sup>, (1)*Policlinica Gipuzkoa and GAUTENA*, (2)*APNABI*, (3)*Policlinica Gipuzkoa*, (4)*GAUTENA*, (5)*University of Salamanca*, (6)*Carlos III Health Institute*
- 9:00 **93 136.093**  
Incidence and Time Trends in Autism Spectrum Disorders - a Finnish Cohort Study. M. Ikonen<sup>1</sup>, P. N. Banerjee<sup>2</sup>, S. Hinkka-Yli-Salomäki<sup>1</sup>, K. M. Lampi<sup>1</sup>, H. Helenius<sup>1</sup>, I. W. McKeague<sup>3</sup>, A. S. Brown<sup>2</sup> and A. Sourander<sup>1</sup>, (1)*University of Turku*, (2)*Columbia University/NYSPI*, (3)*Columbia University*
- 10:00 **94 136.094**  
Maternal Education as a Differentiating Factor for Willingness to Participate in ASD Diagnostic Evaluations. M. Khowaja\* and D. L. Robins, *Georgia State University*
- 11:00 **95 136.095**  
MCHAT Screening for Autism in Hispanic Toddlers: Fail Rates of the 23 Item Instrument. N. J. Rosen<sup>1</sup>, G. Windham<sup>2</sup>, M. Anderson<sup>3</sup>, K. S. Smith<sup>1</sup>, R. B. Coolman<sup>4</sup> and S. J. Harris<sup>4</sup>, (1)*California Department of Public Health*, (2)*CA Department of Public Health*, (3)*Impact Assessment, Inc.*, (4)*Santa Clara Valley Health and Hospital System*
- 9:00 **96 136.096**  
Pitocin and the Risk for Autism Spectrum Disorder. M. Rissenberg\*, *Center for Neuropsychology*
- 10:00 **97 136.097**  
Pregnancy Complications and Obstetric Suboptimality as Risk Factors for Autism Spectrum Disorders in Children of the Nurses' Health Study II. K. Lyall<sup>1</sup>, D. L. Pauls<sup>2</sup>, D. Spiegelman<sup>1</sup>, A. Ascherio<sup>1</sup> and S. L. Santangelo<sup>2</sup>, (1)*Harvard School of Public Health*, (2)*Massachusetts General Hospital*
- 11:00 **98 136.098**  
Quantitative Evaluation of Sociologic Factors That Can Lead to Apparent Increases in Autism Prevalence. M. LaMadrid\*, C. Brown and T. Deisher, *Sound Choice Pharmaceutical Institute*
- 10:00 **100 136.100**  
Mutation and Expression Analyses of the Ribosomal Protein Gene RPL10 in An Extended German Sample of Patients with Autism Spectrum Disorder. G. Pakalapati<sup>1</sup>, A. Chiocchetti<sup>1</sup>, E. Duketis<sup>2</sup>, S. Wiemann<sup>1</sup>, F. Poustka<sup>2</sup>, L. Breitenbach-Koller<sup>3</sup> and S. M. Klauck<sup>1</sup>, (1)*German Cancer Research Center (DKFZ)*, (2)*Goethe University*, (3)*Paris-Lodron University*
- 11:00 **101 136.101**  
Maternal Cytokine Gene Regulation in the Pathogenesis of Autism. H. Fernandes<sup>1</sup>, M. Ramanathan<sup>1</sup>, F. Limson<sup>1</sup>, S. Shah<sup>1</sup> and N. M. Ponzio<sup>2</sup>, (1)*UMDNJ / New Jersey Medical School*, (2)*UMDNJ - New Jersey Medical School*
- 9:00 **102 136.102**  
Phenotypic Outcome of Aetiologically Relevant Copy Number Variation in Autism Spectrum Disorders. A. K. Merikangas<sup>1</sup>, E. Heron<sup>2</sup>, R. J. Anney<sup>2</sup>, S. Brennan<sup>1</sup> and L. Gallagher<sup>1</sup>, (1)*Trinity College Dublin*, (2)*Trinity College Dublin, Ireland*
- 10:00 **103 136.103**  
Glutathione Pathway Genes and Risk for ASD. M. D. Fallin<sup>1</sup>, K. Bowers<sup>1</sup>, C. Newschaffer<sup>2</sup>, J. P. Bressler<sup>3</sup>, Q. Li<sup>1</sup> and D. Avramopoulos<sup>4</sup>, (1)*Johns Hopkins School of Public Health*, (2)*Drexel University School of Public Health*, (3)*Kennedy Krieger Institute & Johns Hopkins School of Public Health*, (4)*Johns Hopkins School of Medicine*
- 11:00 **104 136.104**  
Interaction Between Glutathione Genes and Maternal Oxidative Stress On Risk for ASD. K. Bowers<sup>1</sup>, C. Newschaffer<sup>2</sup>, J. P. Bressler<sup>3</sup> and M. D. Fallin<sup>1</sup>, (1)*Johns Hopkins School of Public Health*, (2)*Drexel University School of Public Health*, (3)*Kennedy Krieger Institute & Johns Hopkins School of Public Health*
- 9:00 **105 136.105**  
Genome-Wide SNP Genotyping Reveals Novel Autism Candidate Genes within a Microdeletion On Chromosome 14q23. A. J. Griswold<sup>1</sup>, D. Ma<sup>2</sup>, S. J. Sacharow<sup>3</sup>, J. L. Robinson<sup>1</sup>, J. Jaworski<sup>1</sup>, H. H. Wright<sup>4</sup>, R. K. Abramson<sup>4</sup>, J. L. Haines<sup>5</sup>, J. Gilbert<sup>1</sup> and M. Pericak-Vance<sup>1</sup>, (1)*University of Miami Miller School of Medicine*, (2)*Hussman Institute for Human Genomics*, (3)*University of Miami*, (4)*University of South Carolina School of Medicine*, (5)*Center for Human Genetics*
- 10:00 **106 136.106**  
Identification of Rare Coding Variation in Autism Spectrum Disorders by Deep Resequencing. G. Cai\*, T. Sakurai, J. Keaney and J. D. Buxbaum, *Mount Sinai School of Medicine*
- 11:00 **107 136.107**  
Heterogeneity in Autism Spectrum Disorders (ASD): Linkage Analysis of Four ASD Subsets Defined by ADI-R Clustering. E. Moore<sup>1</sup>, V. Hu<sup>2</sup> and Z. Talebizadeh<sup>1</sup>, (1)*Children's Mercy Hospital and University of Missouri-Kansas City*, (2)*The George Washington University Medical Center*
- 9:00 **108 136.108**  
A Preliminary Investigation of Parent and Clinician Agreement in the Diagnosis of An Autism Spectrum Disorder. T. De Jesus, L. Kalb\* and K. Patel, *Kennedy Krieger Institute*
- 10:00 **109 136.109**  
Transcriptional Analysis of Cytokines in the Cerebral Cortex of Autistic Patients. M. C. Mott\*, M. F. Casanova, G. R. Fernandez-Botran, L. Sears, C. R. Tillquist and F. Crespo, *University of Louisville*

## Poster Sessions

### 136 Human Genetics

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **99 136.099**  
Hypocholesterolemia in Autism Spectrum Disorder. E. Tierney<sup>1</sup>, I. Bukelis<sup>1</sup>, J. Teng<sup>1</sup>, C. Wheeler<sup>1</sup>, W. E. Kaufmann<sup>1</sup>, C. Wassif<sup>2</sup>, S. K. Conley<sup>3</sup>, R. W. Y. Lee<sup>1</sup> and F. D. Porter<sup>4</sup>, (1)*Kennedy Krieger Institute*, (2)*NIH*, (3)*NICHD/ NIH*, (4)*National Institutes of Health/NICHD*

# Program

- 11:00 **110 136.110**  
Oxytocin Biology and Social Impairments in Autism Spectrum Disorders. K. J. Parker<sup>\*1</sup>, R. A. Libove<sup>2</sup>, S. Hyde<sup>1</sup>, P. Liao<sup>1</sup>, J. M. Phillips<sup>1</sup>, J. Hallmayer<sup>1</sup> and A. Y. Hardan<sup>2</sup>, (1)*Stanford University*, (2)*Stanford University School of Medicine/Lucile Packard Children's Hospital*
- 9:00 **111 136.111**  
Genome-Wide Association Analysis of Susceptibility Genes in Autism Using with a Gene-Centric Approach. T. R. Magalhães<sup>\*1</sup>, J. Casey<sup>2</sup>, C. Correia<sup>1</sup>, F. Sequeira<sup>1</sup>, M. Espada<sup>1</sup>, S. Ennis<sup>2</sup>, A. M. Vicente<sup>1</sup> and A. G. Project<sup>3</sup>, (1)*Instituto Gulbenkian de Ciência/ Instituto Nacional de Saúde Dr. Ricardo Jorge*, (2)*National Center for Medical Genetics/UCD*, (3)*Autism Genome Project*
- 10:00 **112 136.112**  
Prediction of SRS From Genotype in Autism. G. Guzzetta<sup>1</sup>, G. Esposito<sup>2</sup>, G. Jurman<sup>1</sup>, P. Venuti<sup>2</sup> and C. Furlanello<sup>\*1</sup>, (1)*Fondazione Bruno Kessler - FBK*, (2)*University of Trento*
- 11:00 **113 136.113**  
Genomic Imprinting of the X-Linked Gene Transketolase-Like 1 in Mouse and Human. A. M. I. Nesbitt<sup>\*1</sup>, J. J. LoTurco<sup>1</sup>, D. H. Skuse<sup>2</sup>, R. J. O'Neill<sup>1</sup> and M. J. O'Neill<sup>1</sup>, (1)*University of Connecticut*, (2)*Institute of Child Health*
- 9:00 **114 136.114**  
In Vitro and In Vivo Functional Characterization of the ENGRAILED 2 ASD-Associated Haplotype. J. Choi<sup>1</sup>, S. Kamdar<sup>1</sup>, P. G. Matteson<sup>1</sup>, L. Brzustowicz<sup>2</sup> and J. H. Millonig<sup>\*1</sup>, (1)*UMDNJ-Robert Wood Johnson Medical School*, (2)*Rutgers University*
- 10:00 **115 136.115**  
Population- and Family-Based Studies Suggest An Epigenetic Role for the MTHFR Gene in the Etiology of Autism. X. Liu<sup>\*1</sup>, F. Solehdin<sup>2</sup>, I. L. Cohen<sup>3</sup>, M. Gonzalez<sup>4</sup>, E. C. Jenkins<sup>3</sup>, S. M. Lewis<sup>2</sup> and J. J. A. Holden<sup>5</sup>, (1)*Queen's University*, (2)*University of British Columbia*, (3)*NYS Institute for Basic Research in Developmental Disabilities*, (4)*New York State Institute for Basic Research in Developmental Disabilities*, (5)*ASPIRE, Queen's University*
- 11:00 **116 136.116**  
Positive Association of Engrailed 2 (EN2) Gene with Autism in the Indian Population. B. Sen<sup>\*1</sup>, A. S. Singh<sup>1</sup>, S. Sinha<sup>1</sup>, A. Chatterjee<sup>1</sup>, S. Ahmed<sup>2</sup>, S. Ghosh<sup>3</sup> and R. Usha<sup>1</sup>, (1)*Manovikas Kendra Rehabilitation & Research Institute for the Handicapped*, (2)*Assam Autism Foundation*, (3)*Indian Statistical Institute*
- 9:00 **117 136.117**  
Linkage On Chromosome 7 for Language Onset in Utah Pedigrees. M. Villalobos<sup>\*</sup>, D. Cannon, G. Miles, J. Miller, N. Wahmoff, R. Robison, W. M. McMahon and H. Coon, *University of Utah*
- 10:00 **118 136.118**  
Genomic Copy Number Variation in Pediatric Patients with Autism Spectrum Disorders. E. A. Varga<sup>\*1</sup>, D. Lamb-Thrush<sup>2</sup>, C. Astbury<sup>2</sup>, R. Pyatt<sup>2</sup>, S. Reshmi<sup>2</sup>, J. Gastier-Foster<sup>2</sup> and G. E. Herman<sup>1</sup>, (1)*The Research Institute at Nationwide Children's Hospital*, (2)*Nationwide Children's Hospital*
- 11:00 **119 136.119**  
ITGB3 Gene Variants Double the Risk of An Autism Spectrum Disorder Diagnosis. R. Sacco<sup>1</sup>, F. Lombardi<sup>1</sup>, P. Curatolo<sup>2</sup>, B. Manzi<sup>2</sup>, R. Militerni<sup>3</sup>, C. Bravaccio<sup>4</sup>, C. Lenti<sup>5</sup>, M. Saccani<sup>5</sup>, K. Fontaine<sup>6</sup>, F. Rousseau<sup>6</sup>, P. Lewin<sup>6</sup> and A. M. Persico<sup>\*1</sup>, (1)*Univ. Campus Bio-Medico*, (2)*Tor Vergata University*, (3)*Univ. of Naples*, (4)*University Federico II*, (5)*Univ. of Milan*, (6)*IntegraGen*
- 9:00 **120 136.120**  
Importance of in Depth Genotyping for Chromosome 15q13.3 and CHRNA7 in Evaluation of AUTISM, Mental Retardation, Schizophrenia, Bipolar Disorder, and Epilepsy. A. Hall<sup>\*</sup>, C. P. Schaaf, R. Person, Z. Ou, S. Mahadevan, L. Stewart, P. B. S. C. Soper, P. Szafranski, I. Gibson, P. Stankiewicz and A. L. Beaudet, *Baylor College of Medicine*
- 10:00 **121 136.121**  
Using Ingenuity Pathway Analysis to Study Gene Relationships Under Linkage Peaks of Interest in ASD. A. Hare<sup>\*1</sup>, M. Azaro<sup>1</sup>, V. Vieland<sup>2</sup>, J. Flax<sup>1</sup> and L. Brzustowicz<sup>1</sup>, (1)*Rutgers University*, (2)*The Research Institute at Nationwide Children's Hospital*
- 11:00 **122 136.122**  
Two Major Possible Mechanisms Emerge for Maternally Acting Gene Alleles That Contribute to Autism and Other Neurodevelopmental Disorders. W. G. Johnson<sup>\*1</sup>, S. Buyske<sup>2</sup> and E. S. Stenroos<sup>1</sup>, (1)*UMDNJ - Robert Wood Johnson Medical School*, (2)*Rutgers University*
- 9:00 **123 136.123**  
Molecular Analysis of Multiplex , Highly Inbred ASD Families in Saudi Arabia. M. Aldosari<sup>\*</sup>, L. J. Al-Sharif, D. S. Khalil, J. M. Shinwari, A. Almuslamani, M. Nester, B. F. Meyer, H. Khalak and N. A. Al Tassan, *King Faisal Specialist Hospital and Research Center*
- 10:00 **124 136.124**  
Molecular Investigation of An Autism Risk Region On Chromosome 12. H. N. Cukier<sup>\*1</sup>, I. Konidari<sup>1</sup>, M. Y. Rayner-Evans<sup>1</sup>, D. Ma<sup>2</sup>, R. K. Abramson<sup>3</sup>, H. H. Wright<sup>3</sup>, J. Haines<sup>4</sup>, M. L. Cuccaro<sup>1</sup>, J. Gilbert<sup>5</sup> and M. A. Pericak-Vance<sup>2</sup>, (1)*University of Miami*, (2)*Hussman Institute for Human Genomics*, (3)*University of South Carolina School of Medicine*, (4)*Vanderbilt University*, (5)*University of Miami Miller School of Medicine*

## Poster Sessions

### 136 Neurophysiology

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **42 136.042**  
A Longitudinal Study Using ERPS to Predict Later Outcome in Toddlers with Autism. S. Coffey-Corina<sup>\*1</sup>, D. Padden<sup>2</sup> and P. Kuhl<sup>2</sup>, (1)*University of California, Davis*, (2)*University of Washington*
- 10:00 **43 136.043**  
Atypical Pupillary Light Reflex in Children with Autism Spectrum Disorders. C. Daluwatte<sup>\*1</sup>, X. Fan<sup>2</sup>, J. H. Miles<sup>1</sup>, T. N. Takahashi<sup>3</sup> and G. Yao<sup>2</sup>, (1)*University of Missouri*, (2)*Univeristy of Missouri*
- 11:00 **44 136.044**  
Auditory Evoked Fields Abnormalities in Children with Sensory Processing Differences Using Magnetocephalographic Imaging (MEG-I). S. S. Hill<sup>\*1</sup>, A. M. Findlay<sup>2</sup>, S. Honma<sup>2</sup>, A. Bernard<sup>3</sup>, L. B. N. Hinkley<sup>2</sup>, S. Nagarajan<sup>2</sup> and E. Marco<sup>1</sup>, (1)*UC San Francisco*, (2)*University of California, San Francisco*, (3)*University of Denver*
- 9:00 **45 136.045**  
Autistic-Like Behaviors, Social Personality Characteristics, and Neural Correlates of Face Perception in the General Population. E. Kilroy<sup>\*1</sup>, C. Cheung<sup>2</sup>, D. Perszyk<sup>1</sup>, L. Mayes<sup>1</sup> and J. McPartland<sup>1</sup>, (1)*Yale Child Study Center*, (2)*Yale University*
- 10:00 **46 136.046**  
EEG Coherence and Social Behavior in Children with Autism Spectrum Disorders. A. Meyer<sup>\*</sup>, J. Karst and A. V. Van Hecke, *Marquette University*



- 11:00 **47 136.047**  
Effects of Repetitive Transcranial Magnetic Stimulation On Behavior and Functional Cortical Connectivity Outcomes in Autism. E. M. Sokhadze\*, J. M. Baruth, A. S. El-Baz, T. Horrell, A. Tasman, G. Mathai, L. L. Sears and M. Casanova, *University of Louisville*
- 9:00 **48 136.048**  
Oxidative Stress in Asperger Syndrome and Healthy Adolescents. M. Parellada\*, C. Llorente, M. Giraldez, C. Moreno and C. Arango, *Hospital General Universitario Gregorio Marañón*.
- 10:00 **49 136.049**  
Patterns of Hemisphere Asymmetry in EEG Activity in Infants at High Risk for Autism. L. Gabard-Durnam\*, A. L. Tierney<sup>2</sup>, C. A. Nelson<sup>3</sup> and H. Tager-Flusberg<sup>4</sup>, (1)*Harvard College and Children's Hospital Boston*, (2)*Harvard Graduate School of Education and Children's Hospital Boston*, (3)*Children's Hospital Boston*, (4)*Boston University*
- 11:00 **50 136.050**  
"Native and Non-Native Speech-Evoked Responses in High-Risk Infant Siblings". C. R. Percaccio\*, D. Padden<sup>2</sup> and P. Kuhl<sup>2</sup>, (1)*Institute for Learning and Brain Sciences, University of Washington*, (2)*University of Washington*
- 9:00 **51 136.051**  
Altered Brain Phospholipids and Acylcarnitines in a Propionic Acid Induced Rodent Model for Autism Spectrum Disorder. R. H. Thomas\*, K. A. Foley, J. Mephram, L. J. Tichenoff and D. F. MacFabe, *University of Western Ontario*
- 10:00 **52 136.052**  
Developmental Changes in Brain Bases of Face Perception in Autism as Revealed by ERPs. D. Perszyk\*, E. Kilroy<sup>1</sup>, P. Molfese<sup>1</sup>, L. Mayes<sup>1</sup>, A. Klin<sup>2</sup> and J. McPartland<sup>1</sup>, (1)*Yale Child Study Center*, (2)*Yale University School of Medicine*
- 11:00 **53 136.053**  
Developmental Pathways in EEG Activity in Infants at High Risk for Autism. A. L. Tierney\*, L. Gabard-Durnam<sup>2</sup>, C. A. Nelson<sup>3</sup> and H. Tager-Flusberg<sup>4</sup>, (1)*Harvard Graduate School of Education and Children's Hospital Boston*, (2)*Harvard College and Children's Hospital Boston*, (3)*Children's Hospital Boston*, (4)*Boston University*
- 9:00 **54 136.054**  
Electrodermal Activity Versus Sensory Behaviors: A Pilot Study in Children with Autism. M. Chang\*, D. Parham<sup>2</sup>, E. Blanche<sup>2</sup> and A. Schell<sup>3</sup>, (1)*University of Southern California*, (2)*University of New Mexico*, (3)*Occidental College*
- 10:00 **55 136.055**  
Event-Related Potentials During Affective Face Processing and Social-Communicative Development in Infants at Low and High Risk for Autism Spectrum Disorders. C. Damiano\*, W. L. Stone<sup>2</sup>, D. S. Messinger<sup>3</sup>, E. H. Catania<sup>1</sup> and A. P. F. Key<sup>2</sup>, (1)*Vanderbilt University*, (2)*Vanderbilt Kennedy Center*, (3)*University of Miami*
- 11:00 **56 136.056**  
Performance-Monitoring and Evaluative Control in High Functioning Autism. A. Clawson\*, E. Krauskopf<sup>1</sup>, O. Johnston<sup>1</sup>, M. J. Crowley<sup>2</sup>, M. South<sup>1</sup> and M. J. Larson<sup>1</sup>, (1)*Brigham Young University*, (2)*Yale University*
- 9:00 **57 136.057**  
Resting-State Neural Abnormalities in Autism Spectrum Disorders. L. A. Cornew\*, T. P. L. Roberts and J. C. Edgar, *Children's Hospital of Philadelphia*
- 10:00 **58 136.058**  
Social - Communicative Skills in Young Children with An Autism Spectrum Disorder: The Role of the Mirror Neuron System. L. Ruyschaert\*<sup>1</sup>, P. Warreyn<sup>2</sup>, J. R. Wiersema<sup>1</sup>, G. Pattyn<sup>1</sup>, A. Handl<sup>3</sup> and H. Roeyers<sup>2</sup>, (1)*Developmental Disorders, Ghent University, Ghent, Belgium*, (2)*Ghent University*, (3)*Max Planck Institute for Human Cognitive and Brain Sciences*
- 11:00 **59 136.059**  
Spectral Power and Coherence Correlations During Flash VEP for Typical and Autistic Children. K. M. Martien\*<sup>1</sup>, K. Singh<sup>1</sup>, H. Bharadwaj<sup>1</sup>, J. Isler<sup>2</sup> and M. R. Herbert<sup>3</sup>, (1)*Massachusetts General Hospital-Harvard Medical School*, (2)*Columbia College of Physicians and Surgeons*, (3)*Massachusetts General Hospital*
- 9:00 **60 136.060**  
Atypical Object Processing in Children with Autism and Its Relationship to Research Diagnosis. J. P. McCleery\*<sup>1</sup>, V. Vogel-Farley<sup>2</sup> and C. A. Nelson<sup>2</sup>, (1)*University of Birmingham (UK)*, (2)*Children's Hospital Boston*
- 10:00 **61 136.061**  
Children with Sensory Processing Differences Show Atypical Resting Connectivity Using Magnetoencephalographic Imaging (MEG-I). E. Marco\*<sup>1</sup>, S. S. Hill<sup>1</sup>, A. Bernard<sup>2</sup>, A. M. Findlay<sup>3</sup>, S. Honma<sup>3</sup>, L. B. N. Hinkley<sup>3</sup> and S. Nagarajan<sup>3</sup>, (1)*UC San Francisco*, (2)*University of Denver*, (3)*University of California, San Francisco*
- 11:00 **62 136.062**  
Contingency Sensitivity and Reward Prediction in High-Functioning Autism. E. Krauskopf\*<sup>1</sup>, A. Clawson<sup>1</sup>, O. Johnston<sup>1</sup>, M. J. Crowley<sup>2</sup>, M. J. Larson<sup>1</sup> and M. South<sup>1</sup>, (1)*Brigham Young University*, (2)*Yale University*
- 9:00 **63 136.063**  
Do Children with Low-Functioning Autism Disorder Have A More Extensive Declarative Memory Impairment Than Children with High Functioning Autism Spectrum Disorder? Implications for the Medial Temporal Lobe. S. Anns\*<sup>1</sup>, S. Biggam<sup>2</sup> and J. Boucher<sup>3</sup>, (1)*City University London*, (2)*Bournemouth University*, (3)*City University*
- 10:00 **64 136.064**  
Ferritin and Iron Levels in Children with Autistic Disorder. S. Herguner\*<sup>1</sup>, M. Copur<sup>2</sup>, C. Tanidir<sup>3</sup> and F. Kelesoglu<sup>4</sup>, (1)*Bakirköy State Hospital for Mental Health and Neurological Disorders*, (2)*Bakirköy State Hospital for Psychiatry and Neurology*, (3)*Okmeydanı State Hospital*, (4)*Istanbul Faculty of Medicine*
- 11:00 **65 136.065**  
Magnocellular Processing Differences for Peripheral Stimulation Among Children with Autism Spectrum Disorders: Evidence From High-Density EEG. N. Russo\*<sup>1</sup>, H. P. Frey<sup>1</sup>, E. C. Lalor<sup>2</sup>, S. Molholm<sup>1</sup> and J. J. Foxe<sup>1</sup>, (1)*City College of New York & Albert Einstein School of Medicine*, (2)*Neural Engineering Group*
- 9:00 **66 136.066**  
Measuring Sleep in Autism Trials: Relationship of Socioeconomic Status to Data Collection. K. Adkins\*<sup>1</sup>, K. L. Surdyka<sup>1</sup>, S. E. Goldman<sup>1</sup>, D. Wofford<sup>1</sup>, C. A. Mollooy<sup>2</sup> and B. A. Malow<sup>1</sup>, (1)*Vanderbilt University*, (2)*Cincinnati Children's Hospital Medical Center*
- 10:00 **67 136.067**  
Melatonin for SLEEP IN AUTISM: A DOSE-RESPONSE STUDY. K. L. Surdyka\*, S. E. Goldman, K. Adkins, D. Wofford, L. Wang and B. A. Malow, *Vanderbilt University*
- 11:00 **68 136.068**  
Non-Neuronal Targets of Antipsychotics. C. Gottfried\*<sup>1</sup>, A. Quincozes-Santos<sup>1</sup>, L. D. Bobermin<sup>1</sup>, M. C. Leite<sup>1</sup>, R. T. Abib<sup>1</sup>, V. Bambini-Junior<sup>1</sup>, F. Zeidán-Chuliá<sup>1</sup>, R. Riesgo<sup>2</sup> and C. A. Goncalves<sup>1</sup>, (1)*UFRGS*, (2)*Universidade Federal do Rio Grande do Sul - UFRGS*

# Program

## Poster Sessions

### 136 Services

8:00 AM - 1:00 PM - Franklin Hall B Level 4

- 9:00 **125 136.125**  
Training Community-Based Mental Health Providers to Use a Research-Based Intervention. L. I. Brookman-Frazee\* and A. Drahotá, *University of California, San Diego*
- 10:00 **126 136.126**  
Study of Programs That Support College Students with High Functioning Autism/Asperger Syndrome. C. Ford<sup>1</sup> and J. Stichter\*<sup>2</sup>, (1)*WV Autism Training Center*, (2)*Department of Special Education*
- 11:00 **127 136.127**  
Socio-Demographic Factors Associated with Level of Parenting-Related Stress Reported by Parents of Toddlers with Autism Spectrum Disorders. L. E. Herlihy\*<sup>1</sup>, M. L. Barton<sup>1</sup>, T. Dumont-Mathieu<sup>1</sup>, S. Hodgson<sup>1</sup>, J. Green<sup>1</sup>, K. Knoch<sup>1</sup>, E. Troyb<sup>1</sup>, L. Berry<sup>2</sup> and D. A. Fein<sup>1</sup>, (1)*University of Connecticut*, (2)*Children's Hospital of Philadelphia*
- 9:00 **128 136.128**  
Reaction to ASD Diagnosis: Parental Depression, Family Support, and Service Access. J. L. Taylor\*<sup>1</sup> and Z. Warren<sup>2</sup>, (1)*Vanderbilt Kennedy Center*, (2)*Vanderbilt University*
- 10:00 **129 136.129**  
Psychometric Analysis of the Parent Perception Measure for Parents of Children with Autism Spectrum Disorders. J. A. MacMullin\*, M. C. Cappadocia and J. A. Weiss, *York University*
- 11:00 **130 136.130**  
Teacher, Caregiver, and Child Predictors of Educational Outcomes of Children with Autism. L. A. Ruble\*<sup>1</sup> and J. H. McGrew<sup>2</sup>, (1)*University of Kentucky*, (2)*Indiana University - Purdue University Indianapolis*
- 9:00 **131 136.131**  
Psychoeducational Group Interventions for Parents of Children with Autism: Where Are the Fathers?. M. Elfert\* and P. Mirenda, *University of British Columbia*
- 10:00 **132 136.132**  
The US Recession and Changes in the Use of ASD Assessment Services. C. Klaiman\*, J. Slay and L. Huffman, *Children's Health Council*
- 11:00 **133 136.133**  
Parental Experience of Caring for Young Adults with Asperger Syndrome. I. Fisher\*<sup>1</sup>, H. Omer<sup>1</sup>, O. Golan<sup>2</sup> and H. Shilo<sup>2</sup>, (1)*Tel-Aviv University*, (2)*Bar-Ilan University*
- 9:00 **134 136.134**  
Stress in Parents with Children at-Risk for ASD: Self-Referred Versus Pediatrician-Referred. C. Carrillo\*, R. L. Koegel and L. K. Koegel, *University of California, Santa Barbara*
- 10:00 **135 136.135**  
The Effects of Inclusive Education On Neurotypical Students' Attitudes Toward Autism. M. H. Hodge\* and E. R. Hahn, *Furman University*
- 11:00 **136 136.136**  
Using a Distance Learning Program to Introduce Naturalistic Behavioral Techniques to Parents of Young Children with Autism. A. L. Wainer\* and B. Ingersoll, *Michigan State University*
- 9:00 **137 136.137**  
Predictors of Support Group Use in Parents of Children with ASD: Testing the Self-Regulatory Model. T. Clifford\* and P. Minnes, *Queen's University*
- 10:00 **138 136.138**  
Training Needs for Those Who Support Children and Adults with Autism. V. Smith\*, S. Patterson, A. Lever and A. Sung, *University of Alberta*
- 11:00 **139 136.139**  
Young Adults with Autism: What Happens After High School?. P. Shattuck\*, *Washington University in St. Louis*
- 9:00 **140 136.140**  
Putting Recommendations Into Practice: Obtaining Services for Children Recently Diagnosed with ASD. M. A. McCarthy\*<sup>1</sup>, K. S. Branch<sup>1</sup>, L. J. Lawer<sup>1</sup>, L. A. Plummer<sup>1</sup> and D. S. Mandell<sup>2</sup>, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*
- 10:00 **141 136.141**  
Services Utilized by Adults with Autism Spectrum Disorders. L. A. Plummer\*<sup>1</sup>, M. A. McCarthy<sup>1</sup>, K. S. Branch<sup>1</sup>, L. J. Lawer<sup>1</sup> and D. S. Mandell<sup>2</sup>, (1)*University of Pennsylvania*, (2)*University of Pennsylvania School of Medicine*
- 11:00 **142 136.142**  
The Effect of An Integrative Parent Education Program On Quality of Life for Families of Children with An Autism Spectrum Disorder. C. J. White\*<sup>1</sup> and A. J. Lincoln<sup>2</sup>, (1)*Center for Autism Research, Evaluation, and Service (CARES)*, (2)*Alliant International University*
- 9:00 **143 136.143**  
Predictors of No Show and Patient Cancellation at An Outpatient Autism Clinic. C. Foster\*, L. Kalb, C. Wolf, P. Law and D. Menon, *Kennedy Krieger Institute*
- 10:00 **144 136.144**  
Quality Improvements in ASD Health Service Delivery. J. E. Farmer\*, K. Dunne, M. J. Clark, W. A. Mayfield and J. S. Hawks, *University of Missouri*
- 11:00 **145 136.145**  
What Do Pre-Service Teachers Believe and Feel about Teaching Students with Autism Spectrum Disorders (ASD)?. A. R. Ly\*, L. S. Kao, L. E. Richland and W. A. Goldberg, *University of California, Irvine*
- 9:00 **146 136.146**  
Parental Reactions to Their Child's Autism Diagnosis Predict the Working Alliance Between Parent and Intervention Providers. K. K. Berry\*<sup>1</sup>, M. Siller<sup>2</sup>, T. Hutman<sup>3</sup> and M. Sigman<sup>3</sup>, (1)*Hunter College, City University of New York*, (2)*Hunter College of the City University of New York*, (3)*University of California, Los Angeles*
- 10:00 **147 136.147**  
The Influence of Rurality On Quality of Services for Children with Autism Spectrum Disorders. M. A. Murphy\*, B. Rous and K. McCormick, *University of Kentucky*
- 11:00 **148 136.148**  
Stress in 1 Parent and 2 Parent Households with Children with Autism. A. D. Sherman\*<sup>1</sup>, S. Shin<sup>2</sup>, C. M. Harker<sup>1</sup>, E. M. Reisinger<sup>2</sup> and D. S. Mandell<sup>1</sup>, (1)*University of Pennsylvania School of Medicine*, (2)*University of Pennsylvania*
- 9:00 **149 136.149**  
Personal Growth Aspects in the Experience of Parenting a Child On the Autistic Spectrum. M. Yehonatan\* and O. Golan, *Bar-Ilan University*

Saturday May 22<sup>nd</sup>

12:00-1:00P	Business Meeting (Grand Ballroom F Lvl 5)		
1:15-3:15P	IES: The Relationship between Epilepsy and Autism (Grand Ballroom F Lvl 5)		
1:15-3:15P	Oral Session: Developmental Stages, Imitation and Play (Grand Ballroom E Lvl 5)	Oral Session: Treatment 2 (Grand Ballroom AB Lvl 5)	Oral Session: Clinical Phenotype 2 (Grand Ballroom CD Lvl 5)

## Invited Educational Symposium

## 137 Relationship Between Epilepsy and Autism

1:15 PM - 3:15 PM - Grand Ballroom F Level 5

*Moderator: S. Spence; NIH*

This symposium is designed to explore the relationship between epilepsy and ASD. While higher rates of epilepsy have long been reported in ASD, prevalence estimates vary from 5% to as much as 46%. While variation likely reflects differences in study samples, several factors appear to truly increase epilepsy risk such as lower IQ, co-morbid syndromes (e.g. non-idiopathic autism) and gender. However, the rate of epilepsy in idiopathic ASD with normal IQ is still significantly above population risk, suggesting autism itself is associated with an increased epilepsy risk. The recent appreciation that epileptiform EEG abnormalities occur with rates as high as 60%, even in the absence of epilepsy, has lead investigators to propose they may play a causal role. We posit that epilepsy and epileptiform EEGs represent biomarkers of cortical dysfunction in ASD and believe relationships should be vigorously explored. This symposium will review clinical and electrophysiological data and describe the breadth of association with ASD. Next we will describe a genetic disease model known to overlap with ASD and epilepsy: Tuberous Sclerosis Complex (TSC), whose pathways provide researchers a window into this relationship as well as novel therapeutic targets. Finally, we discuss pathophysiological data that characterizes ASD as an imbalance between neuronal excitation and inhibition, which in turn suggests possible directions for future research.

- 1:15 **137.001**  
EPILEPSY, EPILEPTIFORM EEG AND AUTISM: Who has it and what might it mean?. M. Chez\*, *Sutter Neuroscience Institute*
- 1:45 **137.002**  
Magnetoencephalography in ASD: How can new electrophysiological imaging techniques help explore the relationship?. J. D. Lewine\*, *Alexian Brothers Medical Center*
- 2:15 **137.003**  
Tuberous Sclerosis Complex: What can the knowledge of signaling pathway abnormalities teach us about ASD?. M. Sahin\*, *Director of Multi-disciplinary Tuberous Sclerosis Program*
- 2:45 **137.004**  
Excititation/Inhibition Imbalance in ASD: Is this a pathophysiological model of cerebral dysfunction in ASD?. T. Hensch\*, *Center for Brain Science, Harvard University*

## Oral Sessions

## 138 Clinical Phenotype 2

1:15 PM - 3:15 PM - Grand Ballroom E Level 5

- 1:15 **138.001**  
Pragmatic Language and Social Cognitive Overlap in Children with Autism and Fragile X Syndrome. G. E. Martin\*, M. Losh, J. Klusek and A. Harris, *University of North Carolina at Chapel Hill*
- 1:30 **138.002**  
Clinical and Neuropsychological Overlap in the Broad Autism Phenotype and the FMR1 Premutation. M. Losh\*, G. E. Martin and J. Klusek, *University of North Carolina at Chapel Hill*
- 1:45 **138.003**  
Variants in the Social-Emotional Phenotype of Children with Autism and Children with Fragile X Syndrome. N. M. Russo\*, E. Berry-Kravis, C. McKown and M. Lipton, *Rush University Medical Center*
- 2:00 **138.004**  
A Comparison of Sleep Patterns and Behaviour in Children with Autism, Other Developmental Disabilities, and Typically Developing Children. A. L. Richdale\*<sup>1</sup> and S. Cotton<sup>2</sup>, (1)*La Trobe University*, (2)*University of Melbourne*
- 2:15 **138.005**  
Effects of Social and Non-Social Cues On Saccadic Eye Movements in ASD and ADHD. B. Azadi\*<sup>1</sup>, U. Ettinger<sup>2</sup>, P. Asherson<sup>3</sup>, K. L. Ashwood<sup>1</sup>, S. Cartwright<sup>1</sup>, G. Childs<sup>1</sup> and P. Bolton<sup>1</sup>, (1)*Institute of Psychiatry, King's College London*, (2)*Department of Psychiatry, Ludwig-Maximilians-University Munich*, (3)*Institute of Psychiatry*
- 2:30 **138.006**  
Personal Space and Interpersonal Distance in Autism: Insights From the SRS. D. P. Kennedy\*<sup>1</sup>, J. N. Constantino<sup>2</sup> and R. Adolphs<sup>1</sup>, (1)*Caltech*, (2)*Washington University School of Medicine*
- 2:45 **138.007**  
Sex Differences in Autistic Traits: Is High Verbal IQ Protective against Social Impairments in Girls but Not Boys?. K. Dworzynski\*<sup>1</sup>, A. Ronald<sup>2</sup>, R. A. Hoekstra<sup>3</sup>, F. Rijdsdijk<sup>1</sup> and F. Happé<sup>1</sup>, (1)*Institute of Psychiatry, King's College London*, (2)*Birkbeck College, University of London*, (3)*University of Cambridge*
- 3:00 **138.008**  
Head Circumference Developmental Course in the First 14 Months of Life in Children with ASD. A. Narzisi\*, T. Filippi, F. Apicella, E. Santocchi, S. Calderoni, S. Calugi, R. Tancredi and F. Muratori, *University of Pisa – Stella Maris Scientific Institute*

## Program

### Oral Sessions

#### 139 Developmental Stages, Imitation, and Play

1:15 PM - 3:15 PM - Franklin Hall 8&9 Level 4

- 1:15 **139.001**  
Evidence That Anomalous Patterns of Imitation-Dependent Visuomotor Sequence Learning Is Specific to Autism. L. R. Dowell\*<sup>1</sup> and S. H. Mostofsky<sup>2</sup>, (1)*Kennedy Krieger Institute*, (2)*Kennedy Krieger Institute, Johns Hopkins University School of Medicine*
- 1:30 **139.002**  
Spontaneous Mimicry and Imitation in Children with Autism. E. Moody\*<sup>1</sup>, D. McIntosh<sup>2</sup> and S. Hepburn<sup>3</sup>, (1)*University of Colorado Denver, Anschutz Medical Campus*, (2)*University of Denver*, (3)*University of Colorado Denver School of Medicine*
- 1:45 **139.003**  
Phonological Errors in the Signing of Deaf Autistic Children: More Evidence for a Self-Other Mapping Deficit. A. Shield\* and R. P. Meier, *University of Texas at Austin*
- 2:00 **139.004**  
Early Developmental Trajectories of Autism Symptoms in a High-Risk Infant Cohort. L. Zwaigenbaum\*<sup>1</sup>, S. E. Bryson<sup>2</sup>, J. Brian<sup>3</sup>, I. M. Smith<sup>4</sup>, W. Roberts<sup>5</sup>, P. Szatmari<sup>6</sup>, T. Vaillancourt<sup>7</sup> and C. Roncadin<sup>8</sup>, (1)*University of Alberta*, (2)*Dalhousie University/IWK Health Centre*, (3)*Hospital for Sick Children & Bloorview Kids Rehab*, (4)*Dalhousie University & IWK Health Centre*, (5)*University of Toronto*, (6)*McMaster University*, (7)*University of Ottawa*, (8)*Peel Children's Centre*
- 2:15 **139.005**  
Incremental Validity of a Second Screen at 24 Months and Stability of Diagnosis Made at 18 Vs. 24 Months of Age. S. Hardy\*<sup>1</sup>, D. A. Fein<sup>1</sup>, D. L. Robins<sup>2</sup> and C. Chlebowski<sup>1</sup>, (1)*University of Connecticut*, (2)*Georgia State University*
- 2:30 **139.006**  
Early Attention to Facial Expressions and Eye Gaze Direction in Infant Siblings of Children with Autism. M. S. Davies\*<sup>1</sup>, M. Del Rosario<sup>1</sup>, L. Gomez<sup>2</sup>, S. L. Marshall<sup>1</sup> and M. Sigman<sup>2</sup>, (1)*UCLA*, (2)*University of California, Los Angeles*
- 2:45 **139.007**  
Parental Well-Being Is Associated with Child Behavior Among Toddlers with Early Autism Symptomatology. A. S. Nahmias\*<sup>1</sup>, A. H. Brown<sup>1</sup>, P. Yoder<sup>1</sup>, A. S. Carter<sup>2</sup>, D. S. Messinger<sup>3</sup> and W. L. Stone<sup>4</sup>, (1)*Vanderbilt University*, (2)*University of Massachusetts Boston*, (3)*University of Miami*, (4)*Vanderbilt Kennedy Center*
- 3:00 **139.008**  
Sex Differences in Siblings of Children with ASD at 3 Years. W. Roberts\*<sup>1</sup>, L. Zwaigenbaum<sup>2</sup>, J. Brian<sup>3</sup>, C. Roncadin<sup>4</sup>, I. M. Smith<sup>5</sup>, P. Szatmari<sup>6</sup>, T. Vaillancourt<sup>7</sup> and S. E. Bryson<sup>8</sup>, (1)*University of Toronto*, (2)*University of Alberta*, (3)*Hospital for Sick Children & Bloorview Kids Rehab*, (4)*Peel Children's Centre*, (5)*Dalhousie University & IWK Health Centre*, (6)*McMaster University*, (7)*University of Ottawa*, (8)*Dalhousie University/IWK Health Centre*

### Oral Sessions

#### 140 Treatment 2

1:15 PM - 3:15 PM - Grand Ballroom AB Level 5

- 1:15 **140.001**  
A Play and Joint Attention Intervention for Teachers of Young Children with Autism. C. Wong\*<sup>1</sup>, S. Booth<sup>2</sup>, B. Gapsinski<sup>2</sup> and P. Maas<sup>2</sup>, (1)*University of North Carolina at Chapel Hill*, (2)*Cleveland State University*
- 1:30 **140.002**  
Increasing Parent Verbal Responsiveness: A Pilot Intervention Study. C. Erickson\*<sup>1</sup>, A. McDuffie<sup>2</sup>, S. Ellis Weismer<sup>1</sup>, L. Abbeduto<sup>1</sup>, A. Stern<sup>1</sup>, E. Haebig<sup>1</sup> and M. Leonard<sup>1</sup>, (1)*University of Wisconsin-Madison*, (2)*University of Wisconsin*
- 1:45 **140.003**  
JumpStart Learning to Learn: One Week Intensive Parent Training and Diagnostic Therapy for Autism. B. Siegel\*<sup>1</sup>, T. Sendowski<sup>1</sup>, L. Fancy<sup>2</sup> and D. Neufeld<sup>3</sup>, (1)*UC San Francisco*, (2)*JumpStart Learning-to-Learn*, (3)*University of California, Berkeley*
- 2:00 **140.004**  
Arbaclofen for the Treatment of Children and Adults with Fragile X Syndrome: Results of a Phase 2, Randomized, Double-Blind, Placebo-Controlled, Crossover Study. E. Berry-Kravis\*<sup>1</sup>, M. Cherubini<sup>2</sup>, P. Zarevics<sup>2</sup>, B. Rathmell<sup>2</sup>, P. P. Wang<sup>2</sup>, R. Carpenter<sup>2</sup>, M. Bear<sup>3</sup> and R. Hagerman<sup>4</sup>, (1)*Rush University Medical Center*, (2)*Seaside Therapeutics*, (3)*MIT*, (4)*UC Davis*
- 2:15 **140.005**  
Effect of Propranolol On Eye Contact in Autism Spectrum Disorder. S. S. Saklayen\*<sup>1</sup>, K. Higgins<sup>2</sup>, A. Narayanan<sup>1</sup>, S. E. Christ<sup>2</sup> and D. Q. Beversdorf<sup>2</sup>, (1)*The Ohio State University*, (2)*University of Missouri*
- 2:30 **140.006**  
Factors Influencing Placebo Response in the STAART Citalopram Trial. B. King\*<sup>1</sup>, K. Dukes<sup>2</sup>, C. Donnelly<sup>3</sup>, J. McCracken<sup>4</sup>, L. Scahill<sup>5</sup>, L. Sikich<sup>6</sup>, J. Bregman<sup>7</sup>, E. Hollander<sup>8</sup>, L. Ritz<sup>9</sup>, E. Anagnostou<sup>10</sup>, A. Wagner<sup>9</sup>, F. Robinson<sup>2</sup>, D. Hirtz<sup>11</sup> and L. Sullivan<sup>12</sup>, (1)*University of Washington and Children's Hospital and Regional Medical Center*, (2)*DM-STAT, Inc*, (3)*Dartmouth Medical School*, (4)*University of California, Los Angeles*, (5)*Yale University School of Medicine*, (6)*University of North Carolina*, (7)*North Shore-Long Island Jewish Health System*, (8)*Albert Einstein College of Medicine*, (9)*National Institute of Mental Health*, (10)*Bloorview Research Institute, Bloorview Kids Rehab*, (11)*National Institutes of Health*, (12)*Boston University*
- 2:45 **140.007**  
The Gluten Free and Casein Free (GFCF) Diet: A Double Blind, Placebo Controlled Challenge Study. S. Hyman\*<sup>1</sup>, P. A. Stewart, T. Smith, J. Foley, U. Cain, R. Peck, D. D. Morris and H. Wang, *University of Rochester*
- 3:00 **140.008**  
The Relative and Combined Effects of a Diet and a Behavioural Intervention for Behaviour and Sleep Problems in Four Boys with Asperger's Disorder. M. J. Schelleman\*<sup>1</sup> and A. L. Richdale<sup>2</sup>, (1)*RMIT University*, (2)*La Trobe University*

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
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# Autism Research

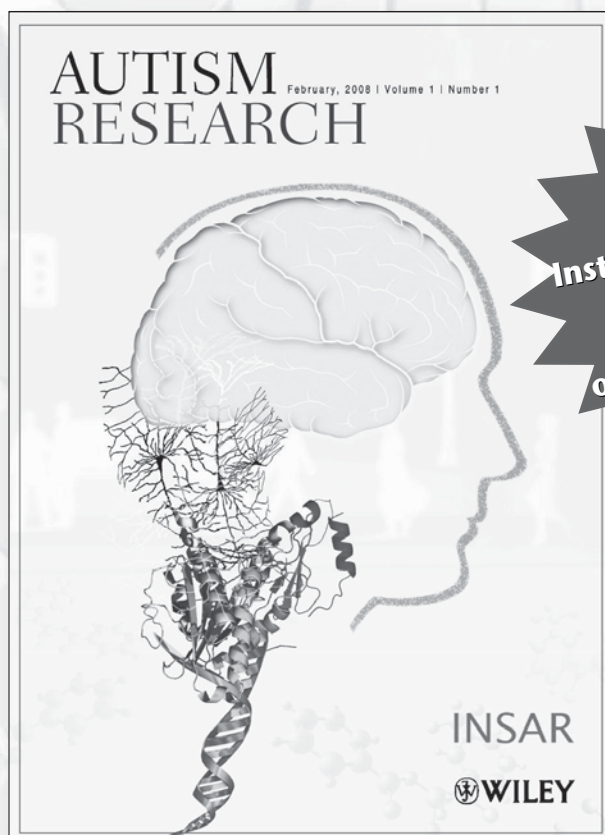
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The International Society for Autism Research (INSAR) is a scientific and professional organization devoted to advancing knowledge about autism spectrum disorders (ASDs), including autism, Asperger syndrome and Pervasive Developmental Disorders Not Otherwise Specified (PDD NOS).

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### Aldebaran-Robotics

Nao is a humanoid robot developed and manufactured by Aldebaran Robotics, a French company based in Paris, France.

The demonstration will show how the robot interacts autonomously and the capacities of high level programming through Choregraphe software.

Nao is a great platform to explore several research fields in Human-Robot interaction, including autism.



**AUTISM RESEARCH INSTITUTE**  
*Autism is Treatable*

### Autism Research Institute

ARI is a non-profit organization founded in 1967 by Dr. Bernard Rimland. ARI conducts and sponsors "research that makes a difference," focusing its efforts on studies that can translate into immediate benefits for today's generation of children and adults with autism.



### Autism Science Foundation

The Autism Science Foundation believes that outstanding research and evidence-based interventions are the greatest gifts we can offer individuals and families affected by autism. We provide direct funding to scientists and organizations conducting, facilitating, publicizing and disseminating autism research. Current areas of funding include genetics, biomarkers, treatment, and services/supports.

ASF also provides information about autism to the general public and serves to increase awareness of autism spectrum disorders. Visit us at [www.autismsciencefoundation.org](http://www.autismsciencefoundation.org).



**AUTISM SPEAKS™**  
It's time to listen.

### Autism Speaks

Autism Speaks, the world's largest autism science and advocacy organization, is dedicated to funding research into the causes, prevention, treatments, and cure for autism; to raising public awareness about autism and its effects on individuals, families, and society; and to bringing hope to all who struggle with autism spectrum disorders.

## US ARMY MEDICAL RESEARCH AND MATERIEL COMMAND'S CDMRP SERVICE STATEMENT

### US Army Medical Research And Materiel Command's CDMRP Service Statement

Funding opportunities are available for disease specific research (cancers, neurological, etc.) from the Department of Defense's Congressionally Directed Medical Research Programs (CDMRP). Since 1992-2009, CDMRP has received appropriations of over \$5.4 billion. Over fifty different funding mechanisms provide opportunities for bio-life scientists at all levels. Visit us on Website <http://cdmrp.army.mil>.



### 3dMD

3dMD provides high-precision, ultra-fast 3D facial and cranial surface imaging systems supported by sophisticated 3D multi-modal imaging software for patient documentation, morphology assessment, anatomical measurement and evaluation. 3dMD systems are in daily use in research institutions around the world by teams working to better understand and quantify the patient condition.



### IACC

The Interagency Autism Coordinating Committee (IACC) is a federal advisory committee established under the Combating Autism Act of 2006 and appointed by the Secretary of Health and Human Services (HHS) to coordinate federal activities related to autism research and services.



### Jessica Kingsley Publishers

Jessica Kingsley Publishers is recognized as the leading publisher on autism and Asperger syndrome. We also publish in a range of other areas including social work, education and arts therapies. Our books are for parents, professionals, academics and the general reader



### LENA Foundation

Dedicated to enhancing language development worldwide, the not-for-profit LENA Foundation develops advanced technology to support the early screening, diagnosis, research, and treatment of language delays and disorders. The foundation's principal technology is the LENA (Language ENvironment Analysis) System, the world's first automatic and objective language collection and analysis tool.

## Exhibitors



### NIMH

NIMH Vision - NIMH envisions a world in which mental illnesses are prevented and cured.

NIMH Mission - The mission of NIMH is to transform the understanding and treatment of mental illnesses through basic and clinical research, paving the way for prevention, recovery and cure.



### National Data Base

NDAR (<http://ndar.nih.gov>) is a secure bioinformatics platform for Autism Spectrum Disorder investigators. Funded by the U.S. National Institutes of Health, NDAR facilitates data sharing and scientific collaboration; provides bioinformatics solutions to address research community needs; and enables the effective communication of detailed research data, tools and results to scientists.



### Noldus

Noldus ([www.noldus.com](http://www.noldus.com)) offers innovative products and services for the study of autistic and human behavior. The Observer XT, our premier solution for collecting and analyzing behavioral data, also integrates third-party devices like physiological and eye tracking systems to provide an innovative multi-modal approach to research. Visit our booth for a free demonstration!



### Prometheus Research Informatics'

Prometheus Research Informatics' team offers researchers at universities, foundations, and other organizations studying complex human disorders, an expert partner in designing and building web-based software applications that securely manage and share their critical data.



### The Coalition for SafeMinds

The Coalition for SafeMinds is a non-profit organization founded to scientifically investigate, support research, raise awareness, change policy and focus national attention on the growing evidence of a link between mercury and neurological disorders such as autism, attention deficit disorder, language delay and learning difficulties. For more information visit [www.safeminds.org](http://www.safeminds.org).



### Simons Foundation Autism Research Initiative

The mission of the Simons Foundation Autism Research Initiative (SFARI) is to improve the diagnosis, treatment, and prevention of autism and related developmental disorders. SFARI explores neuroscience from multiple directions, including molecular, cellular, systems, immunological, cognitive, behavioral, genetic, theoretical and computational perspectives. The Simons Simplex Collection (SSC) is a core project and resource of the Simons Foundation Autism Research Initiative (SFARI). The primary goal of the SSC is to establish a permanent repository of genetic samples from 3000 families, each of which has one child affected with an Autism Spectrum Disorder (ASD) and parents unaffected with ASD.



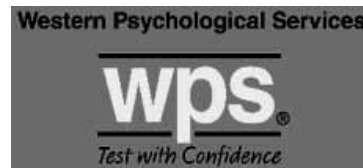
### Springer

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Provides Behavior Imaging® technologies to facilitate the observational, analytical and collaborative needs of researchers, healthcare and Special Education professionals focused on autism. Behavior Imaging enables users to store, share, and annotate video and other health data with patients in their natural environment and researchers from virtually anywhere in the world.



### Western Psychological

Western Psychological Services (WPS) is your source for autism assessments. Whether you're looking for a brief screener or a comprehensive assessment, WPS has the tests you need to accurately identify, diagnose, and treat autism spectrum disorder. Visit our booth to learn more about the Childhood Autism Rating Scales, Second Edition (CARS2)



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