# IMFAR

INTERNATIONAL MEETING FOR AUTISM RESEARCH

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

## May 10-13, 2017

Marriott Marquis
San Francisco, California, USA

*International Meeting for Autism Research*

www.autism-insar.org

# INSAR 2017 Sponsors

*We thank the following organizations for their generous support of INSAR and the IMFAR conference.*

## Platinum Sponsor Level

AUTISM SPEAKS®

SFARI SIMONS FOUNDATION AUTISM RESEARCH INITIATIVE

## Gold Sponsor Level

AUTISM SCIENCE FOUNDATION

Roche

## Silver Sponsor Level

Hilibrand Foundation
Nancy Lurie Marks Family Foundation

## Bronze Level Sponsors

Escher Fund for Autism
Mr. & Mrs. Kim Adams Marvin

# TABLE OF CONTENTS



Follow us on Twitter: @IMFAR2017
Join the conversation: #IMFAR

https://www.facebook.com/pages/International-Meeting-for-Autism-Research-IMFAR/187261661300052

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

### INSAR Mission Statement

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

### Strategic Initiatives

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

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

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

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

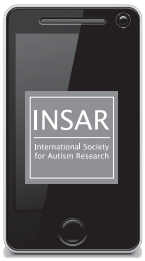
**Building Identity** - Promote INSAR as the premier society for autism researchers.

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

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

### 365 App for INSAR

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




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

To use the "Connect" feature to communicate with other IMFAR registrants, enter the password: 2017SanFran when prompted.

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

# IMFAR WELCOME

We are so pleased to welcome you to San Francisco for IMFAR 2017!

San Francisco was founded in 1776. Its motto is "Gold in Peace and Iron in War" and its flower is the Dahlia. You may know that Mark Twain actually didn't say, "The coldest winter I ever spent was a summer in San Francisco."* And you may know that the Chinese fortune cookie was invented in San Francisco… by a Japanese immigrant. But here are some facts about San Francisco's IMFAR that you may not know:

The local Pre-Meeting Conference is the largest responsibility given to the IMFAR Meeting Chairs and we have enjoyed developing this conference together. We have benefited from a strong team from the UCSF STAR Center for Autism and Neurodevelopment working with enthusiasm to ensure success.

Katy Ankenman
Somer Bishop
Whitney Ence
Megan Fok
Tara Glavin
Tomoya Hirota
Patricia Hong
Young-Shin Kim, STAR Director
Robert Matt Kinkel
Bennett Leventhal
Greg Lyons
Janet Miller
Tara Rooney
Erin Rosenberg
Alexis Sullivan
Michael Sweeney
Tracy Warren
Felicia Widjaja

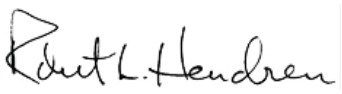
The theme of the local Pre-Meeting Conference, "Measuring Meaningful Outcomes from School Age to Adulthood" was arrived at with consensus and enthusiasm from everyone as capturing the right blend of research expertise and the interest of regional consumers of services and providers.

Our Bay Area community has also pitched in to help. Many local programs sponsored the local Pre-Meeting Conference. Bryna Siegel, the region's top restaurant reviewer among her many talents, has provided a list of special restaurants near the Marriott.

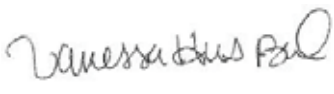
Thanks to Jennifer Gentry, INSAR Administrative Director and Joe Dymek, Meeting Planner. And, special thanks to Geri Dawson, PhD who is such a fabulous leader, supporter and person.

Please reach out to any of us if we can make your stay more enjoyable.

Warmest Wishes…Peace and Beads



Robert Hendren, DO
IMFAR 2017 Meeting Co-Chair



Vanessa Hus Bal, PhD
IMFAR 2017 Meeting Co-Chair

* http://quoteinvestigator.com/2011/11/30/coldest-winter/

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

On behalf of the Scientific Program Committee, we welcome you to the 16th annual International Meeting for Autism Research in San Francisco. As our organization grows, the research submitted to IMFAR has continued a remarkable trajectory of increasing quality, innovation and impact. This year we received over 1,800 abstract submissions with over 1,600 papers accepted following a rigorous review. It is exciting to see members from around the world representing over 40 countries participate in the meeting this year.

The highlights of this year's IMFAR include Keynote presentations from leaders in biology, clinical presentations and treatment. Dr. Pat Levitt will present work addressing the critical problem of understanding and disentangling heterogeneity in ASD; Drs. Ami Klin and Warren Jones will describe their research measuring attention through eye movement monitoring, and Dr. Connie Kasari will present her work on targeted behavioral interventions in autism and heterogeneity in outcomes. This year's panel presentations address important new themes including identifying subtypes of ASD, addressing causal mechanisms through longitudinal studies of behavior and brain function; addressing treatment barriers and underserved communities including adults with autism, racial and ethnic disparities, minimally verbal children, and those with co-morbid psychiatric disorders. This year's oral platform sessions are composed of the most highly ranked and rigorous research studies spanning a broad range of topics including epigenetics, new interventions across the age ranges, gender differences, sexuality in ASD, behavioral and cognitive profiles, and brain structure and function. The poster sessions present a diverse and comprehensive range of topics important in ASD. This year, we have organized the schedule so that there is no overlap between the poster and oral sessions, giving attendees the opportunity to explore posters in a leisurely fashion without risking missing platform presentations. Another new addition is a quiet, low stimulation room reserved for individuals on the spectrum to take a break from the hustle and bustle of the meeting.

This program would not be possible without the hard work and generosity of the Program Committee members and the Topic Review Co-chairs, who carefully chose among the many outstanding abstracts and created the integrated oral sessions. We are also grateful to the many INSAR members who volunteered their time to read and review many abstracts and make their recommendations to the Topic Co-Chairs. We would like to extend our thanks and gratitude to Dr. Geri Dawson, INSAR President, and the INSAR Board members who worked with us throughout this process. Members of the Meeting Committee led by Bob Hendren were instrumental in organizing logistics. Most of all, we would like to give our deepest thanks and appreciation to Jennifer Gentry, who worked tirelessly on every aspect of putting together this meeting, coordinating between the Board and the Program Committee, and whose outstanding knowledge of and commitment to our Society and this meeting continually assure its success. To the many other individuals who generously gave their time and expertise to organize this meeting we extend our deepest gratitude.

It has been a pleasure and an honor to help create the scientific program for IMFAR 2017. We hope you will enjoy the beautiful city of San Francisco and trust that the work presented over the course of this meeting will capture both the remarkable recent progress in ASD research as well as highlighting the key challenges to our understanding that remain ahead.

Sincerely,

Susan Bookheimer, PhD
IMFAR 2017 Scientific Program Co-Chair

Matthew State, MD, PhD
IMFAR 2017 Scientific Program Co-Chair

# PRESIDENT'S WELCOME

It is my pleasure to welcome you to San Francisco for the 2017 International Meeting for Autism Research (IMFAR). IMFAR brings together thousands of scientists from many different disciplines ranging from the basic sciences to applied research. The annual meeting offers researchers an opportunity to meet with practitioners, policy-makers, industry representatives, and those affected by autism. As a global forum, IMFAR provides a unique platform in which we can hear about new ideas and discoveries, learn from each other and forge new collaborations worldwide.

IMFAR 2017 depends upon the effort and creativity of many people. I wish to begin by thanking Robert Hendren and Vanessa Hus Bal, who serve as the 2017 Meeting Co-Chairs and are responsible for putting together an engaging pre-IMFAR stakeholder conference and a welcoming IMFAR Opening Reception. He worked throughout the year with the local community and meeting committee, Joe Dymek and Jennifer Marshall from Conference Direct, and Jennifer Gentry from Association Resources to provide a venue conducive to sharing novel ideas and forming new relationships. I also want to express our gratitude to Susan Bookheimer and Matthew State who are responsible for the outstanding scientific program. Working with the Scientific Program Committee, their efforts in soliciting and overseeing the review of hundreds of abstracts and proposals have resulted in an exceptional line-up of keynote speakers and panels, and numerous scientific sessions which showcase the most recent scientific discoveries, methods and technologies. The meeting also will provide a forum for many student and trainee activities, special interest groups, and community and international forums to meet and collaborate.

This year's Lifetime Achievement Award will be given to Mary Coleman, whose seminal work on the neurobiology of autism provided the foundation for decades of research on the neural basis of autism. I am extremely pleased that Alison Singer has been chosen to receive this year's Advocate Award. Alison has been a tireless advocate for autism research and has volunteered countless hours to communicate the importance of rigorous science for improving the lives of people affected by autism. I hope you will attend the awards ceremony so you can learn more about their accomplishments as well as those of our Dissertation Award winners.

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

As I step down from the role of President of INSAR, I want to express what an honor it has been to serve in this role. As I transition to the role of Past-President, I am eager to get more involved in our global initiatives, including our upcoming Regional IMFAR in South Africa in September 2017. During my tenure as President, I've had the pleasure to work with the INSAR Board to update our strategic plan and mission statement to reflect our continuing focus on promoting high quality science and nurturing new investigators throughout the world, along with a stronger focus on translating that science to have real world impact. We launched a new INSAR grant initiative that is funding the creation of INSAR Policy Briefs, including consensus meetings and documents that describe policy recommendations. It is our hope that the INSAR Policy Briefs will be disseminated widely and help shape new global practices for the benefit of those affected by autism.

While our annual meeting continues to be a key focus of our organization, INSAR has become much more than an annual meeting, as reflected in the success and growth of *Autism Research*, the society's journal, the INSAR app which provides year-round information about INSAR events, and the virtual INSAR Summer Institute. Given this natural evolution of INSAR, it is fitting that we now have an INSAR logo, and our annual meeting going forward will include INSAR in its name. We are also pleased to announce the INSAR Fellows Program, which will honor members of INSAR whose autism research has made a significant international impact on the scientific understanding of ASD, clinical practice, educational methods, and/or policy.

Thank you for being part of INSAR's annual meeting. It is my hope that the knowledge you gain, the collaborations you forge and the old friends and colleagues you enjoy at the meeting will inspire you as you continue your work to improve the lives of those affected by ASD. If you aren't already a member, please considering becoming part of INSAR.

Warm regards,

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

## Special Interest Groups (SIGs)

### Friday, May 12, 2017
7:15 AM - 8:45 AM

**Integrating Autistic Intellect in Autism Research Part 2: Collaborative Problem Solving**
**Room: Nob Hill AB**
*SIG Leader: Dena L. Gassner*

**Older Adults with ASD: The Consequences of Aging**
**Room: Nob Hill CD**
*SIG Leader: Hilde M. Geurts*
*SIG Co-Leader: Amanda Roestorf*

**Implementing and Evaluating Community-Based Early Intervention**
**Room: Yerba Buena 3-6**
*SIG Leaders: Kristelle Hudry & Giacomo Vivanti*
*SIG Co-Leaders: Melissa Maye & Cathy Bent*

**Anxiety in ASD**
**Room: Yerba Buena 10-14**
*SIG Leader: Jacqui Rodgers*
*SIG Co-Leader: Alana McVey*

### Saturday, May 13, 2017
7:15 AM - 8:45 AM

**Promoting Partnerships Between Patient Advocacy Groups and Researchers to Improve Autism Research**
**Room: Nob Hill AB**
*SIG Leaders: Alycia Halladay & Shafali Jeste*
*SIG Co-Leader: Charlotte DiStefano*

**Safe and Accessible Transportation for Individuals on the Autism Spectrum: Addressing Barriers to Community Participation**
**Room: Nob Hill CD**
*SIG Leader: Amber M. Angell*
*SIG Co-Leader: Cecilia Feeley*

**Suicidality in Autism Spectrum Conditions**
**Room: Yerba Buena 3-6**
*SIG Leader: Sarah Cassidy*
*SIG Co-Leaders: Gareth Richards & Kathryn Cook*

**Clinical Strategies for Increasing Inclusion in Neuroscience Research Across the ASD Spectrum**
**Room: Yerba Buena 10-14**
*SIG Leaders: Emily S. Kuschner & Christine Wu Nordahl*
*SIG Co-Leaders: Mark D. Shen & Kevin G. Stephenson*

## Speaker Ready Room for Oral Presenters

Location: Walnut

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

| | |
|---|---|
| Wednesday, May 10 | 3:00 p.m. - 6:00 p.m. |
| Thursday, May 11 | 7:30 a.m. - 5:30 p.m. |
| Friday, May 12 | 7:30 a.m. - 5:30 p.m. |
| Saturday, May 13 | 7:30 a.m. - 1:30 p.m. |

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

## Quiet Room Available During Conference Hours

***Room: Yerba Buena 2***

This year INSAR is providing a quiet, low stimulation room reserved for individuals on the spectrum to take a break from the hustle and bustle of the meeting. The room will be available Thursday–Saturday during conference hours.

**Note:** The last 1.5 hours of each day this room will convert from a quiet room to a networking area for individuals on the spectrum.

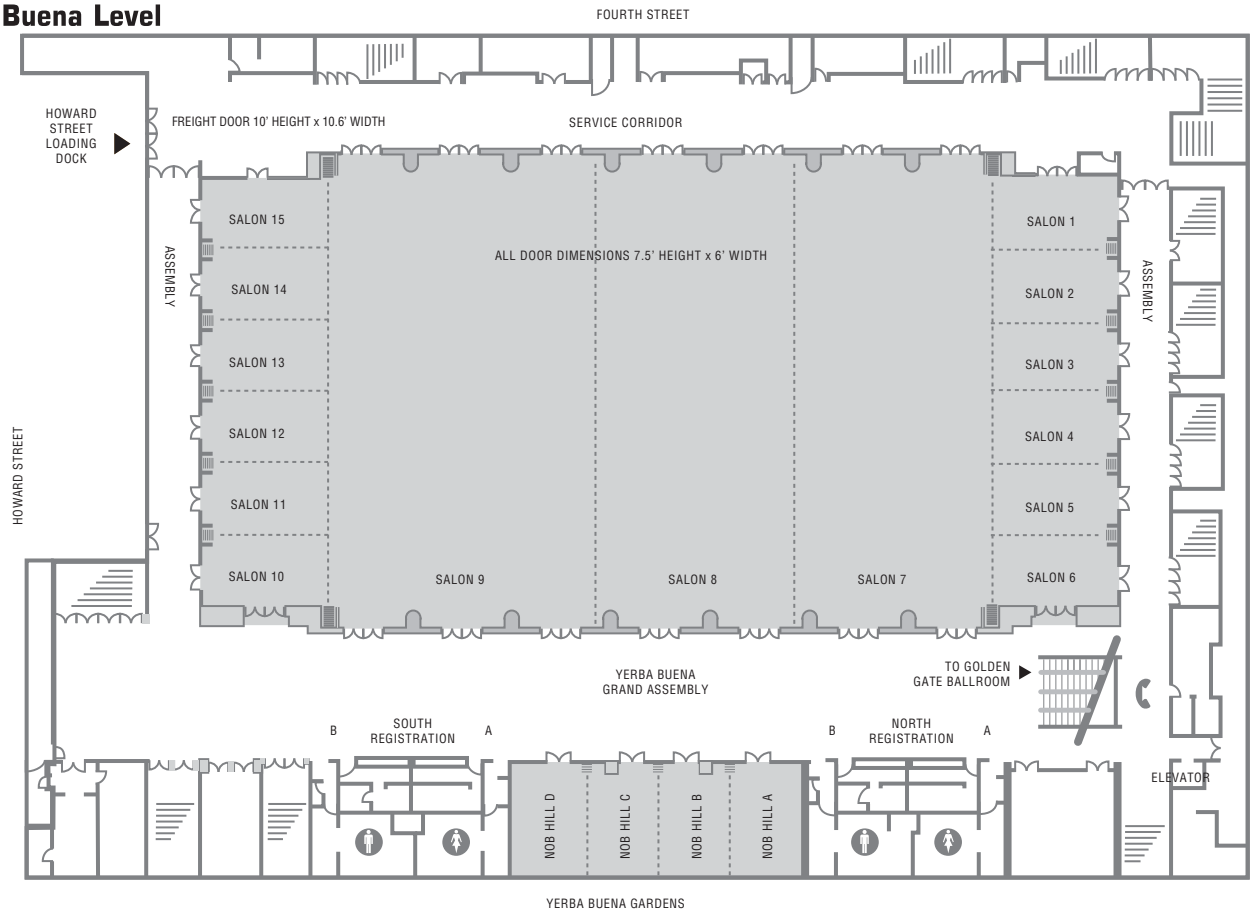
## INSAR Annual Business Meeting

**Saturday, May 13, 2017 – 12:00–1:00 pm**

***Room: Yerba Buena 3-6***

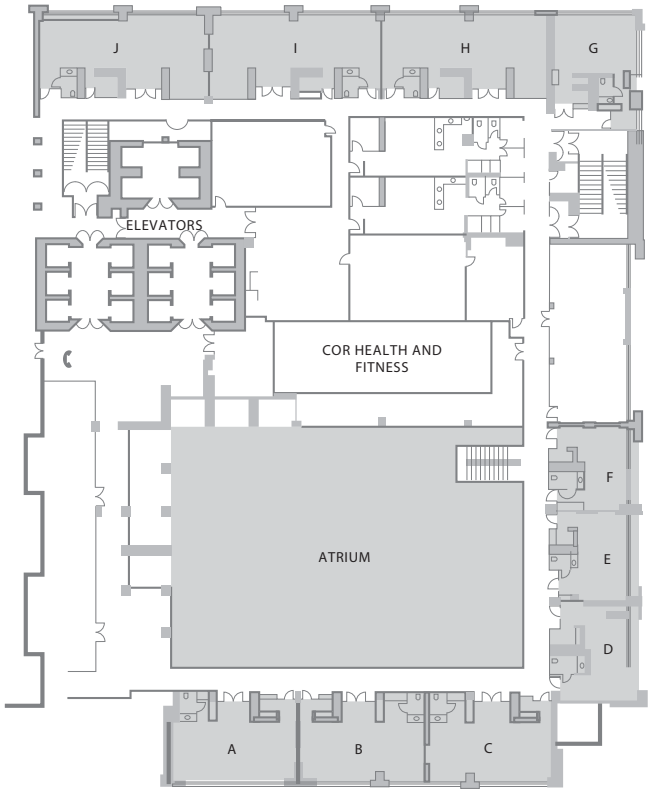
INSAR members are invited to the annual society business meeting on Saturday. Come and hear from your board and committee chairs on INSAR activities over the past year. Help us welcome in the newly elected Board of Directors taking office at this meeting.

## Yerba Buena Level

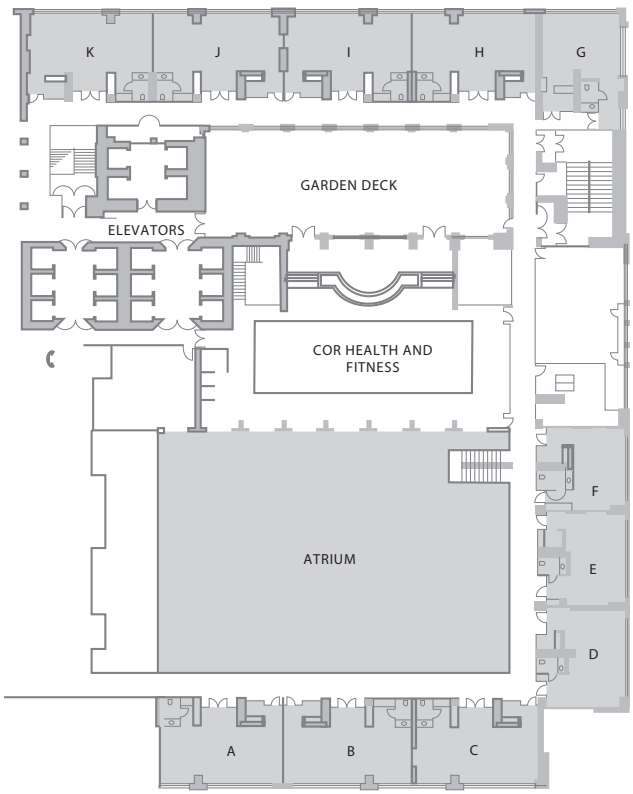



## Pacific Sierra Level

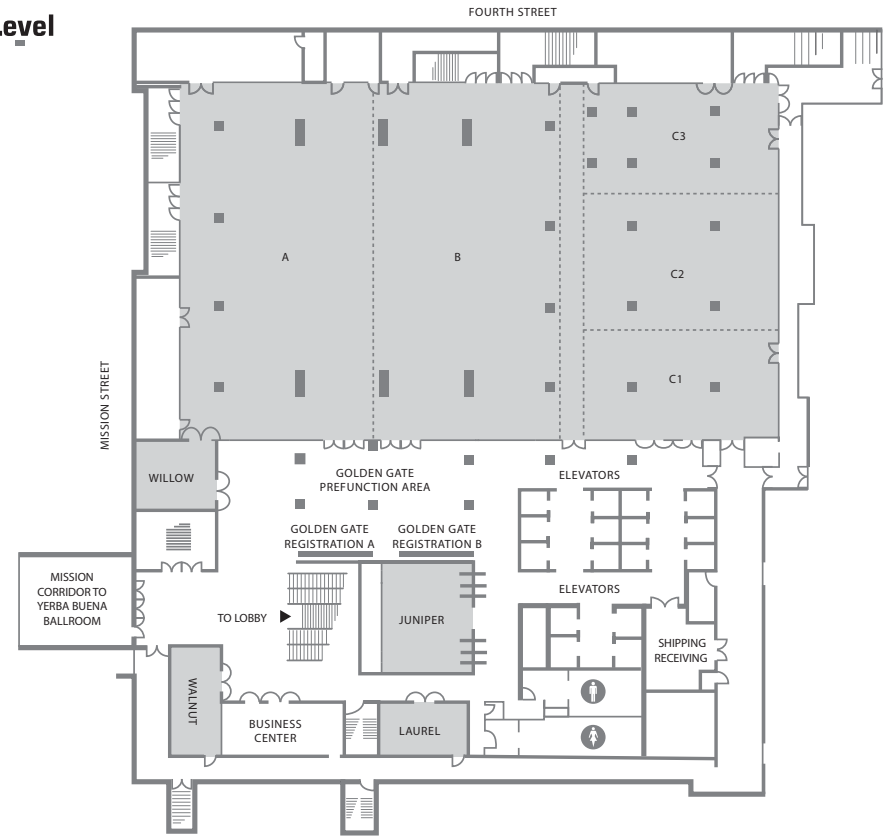
PACIFIC (FOURTH LEVEL)



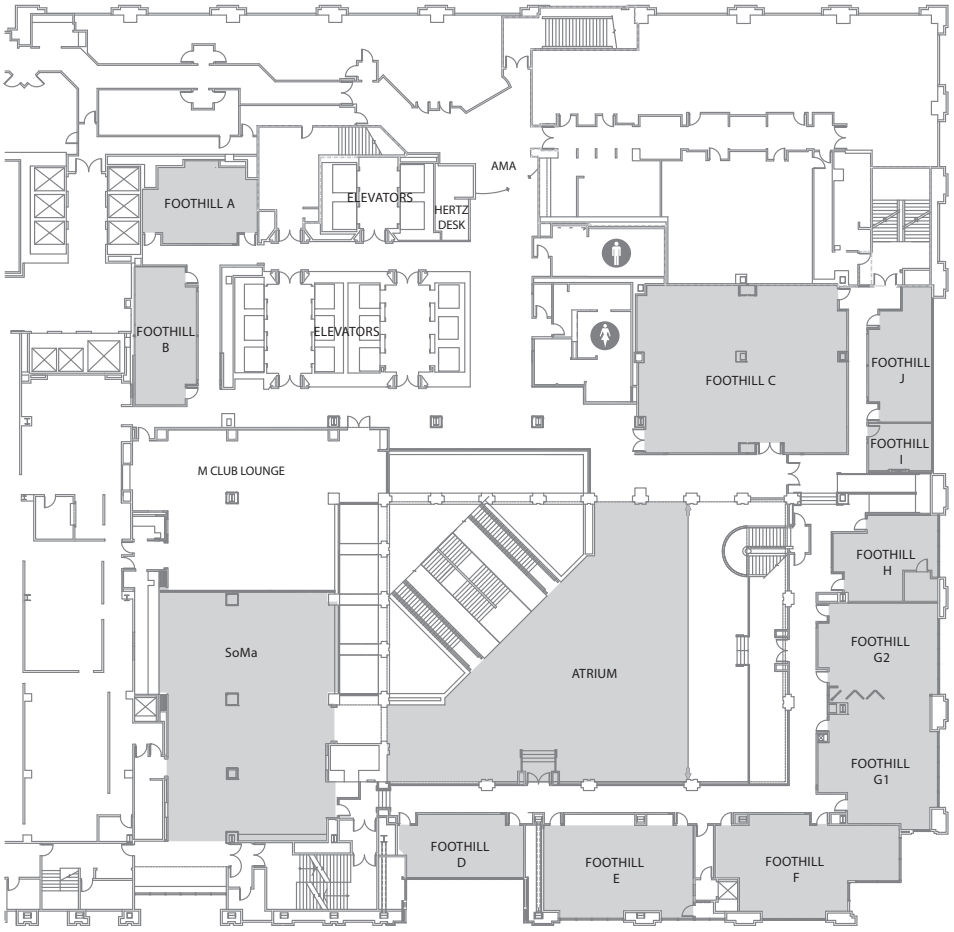

SIERRA (FIFTH LEVEL)



## Golden Gate Level




## Foothills Level



# WEDNESDAY May 10

| | |
|---|---|
| 11:00 AM – 7:00 PM | Registration Open<br>Yerba Buena North Registration Desk |
| 11:00 AM – 12:00 PM | Press Conference<br>*Yerba Buena 5-6* |
| 12:00 PM – 3:00 PM | Early Career Pre-Conference Workshop<br>*(Pre-registration Required, Student Members Only)*<br>*Yerba Buena 2-4* |
| 1:00 PM – 5:00 PM | Cultural Diversity Pre-Conference Workshop<br>*(Pre-registration Required)*<br>*Nob Hill* |
| 5:00 PM – 6:00 PM | Cultural Diversity Meet & Greet Happy Hour<br>*View Lounge 39th Floor* |
| 6:00 PM – 7:30 PM | Opening Reception<br>*Yerba Buena 7* |

# THURSDAY May 11

| | |
|---|---|
| 7:30 AM – 6:00 PM | Registration Open<br>*Yerba Buena North Registration Desk* |
| 8:00 AM – 5:00 PM | Exhibits Open (see exhibitor list pages 217-218)<br>*Yerba Buena Foyer* |
| 8:00 AM – 7:00 PM | Quiet Room – Open during conference hours<br>Quiet Room most of the day;<br>networking hours last 1.5 hours<br>*Yerba Buena 2* |
| 8:00 AM – 9:00 AM | Coffee & Pastries<br>*Yerba Buena Foyer* |
| 8:30 AM – 9:00 AM | Welcome from IMFAR Organizers &<br>INSAR President Address<br>*Yerba Buena 8-9* |
| 9:00 AM – 10:00 AM | Keynote Address – Pat Levitt –<br>Biological Origins of Autism Heterogeneity<br>*Yerba Buena 8-9* |
| 10:00 AM – 10:30 AM | Break<br>*Yerba Buena Foyer* |
| 10:30 AM – 12:00 PM | Panel – Autism and Intellectual Disability:<br>Patterns of Familial and Environmental Risk<br>*Yerba Buena 3-6* |
| 10:30 AM – 12:00 PM | Panel – Brain Imaging and Cognition: Findings<br>of the Longitudinal European Autism Project<br>*Yerba Buena 7* |
| 10:30 AM – 12:00 PM | Panel – Measuring and Predicting Quality of Life<br>in Older Adults with Autism<br>*Yerba Buena 8* |
| 10:30 AM – 12:00 PM | Panel – Towards Elucidating Early Causal<br>Mechanisms of ASD: New Directions for<br>Prospective Longitudinal Studies<br>*Yerba Buena 9* |
| 12:00 PM – 1:00 PM | Student "Meet the Experts" Luncheon<br>(Pre-registration Required, Student Members Only)<br>*Nob Hill A-C* |
| 12:00 PM – 1:00 PM | Early Career Committee Coffee Hour<br>(Open – No Pre-registration Required)<br>*Nob Hill D* |
| 12:00 PM – 1:40 PM | Poster Session – Animal Models; Communication<br>and Language; Genetics; Interventions –<br>Non-pharmacologic – Preschool; Social Cognition<br>and Social Behavior I; Miscellaneous<br>*Golden Gate Ballroom* |
| 12:00 PM – 1:40 PM | Lunch Break<br>*On Your Own* |

| **1:45 PM – 3:30 PM** | **Oral Sessions 1A – 5B (details follow):** |
|---|---|
| 1:45 PM – 2:35 PM | Oral Session 1A – Prevalence, Trajectories and<br>Treatment of Medical and Psychiatric Comorbidity<br>*Yerba Buena 3-6* |
| 2:40 PM – 3:30 PM | Oral Session 1B – New Directions in the<br>Pharmacological Treatment of Social Disability<br>in ASD<br>*Yerba Buena 3-6* |
| 1:45 PM – 2:35 PM | Oral Session 2A – Brain Structure in<br>ASD Across the Lifespan<br>*Yerba Buena 7* |
| 2:40 PM – 3:30 PM | Oral Session 2B – Neuropathology, Imaging<br>Genetics, and Imaging-behavior Correlations<br>*Yerba Buena 7* |
| 1:45 PM – 2:35 PM | Oral Session 3A – Interventions with Young<br>Children and Parents<br>*Yerba Buena 8* |
| 2:40 PM – 3:30 PM | Oral Session 3B – Important Factors in<br>Early Interventions: Predictors, Sustainability<br>and Follow up<br>*Yerba Buena 8* |
| 1:45 PM – 2:35 PM | Oral Session 4A – Community-based Screening<br>and Detection Methods<br>*Yerba Buena 9* |
| 2:40 PM – 3:30 PM | Oral Session 4B – Gender Differences in ASD<br>*Yerba Buena 9* |
| 1:45 PM – 2:35 PM | Oral Session 5A – Services and Systems for<br>Children and Adults with ASD<br>*Yerba Buena 10-14* |
| 2:40 PM – 3:30 PM | Oral Session 5B – Experiencing Autism as<br>a Family<br>*Yerba Buena 10-14* |
| 3:30 PM – 4:00 PM | Break<br>*Yerba Buena Foyer* |
| 4:00 PM – 5:30 PM | INSAR Awards Ceremony: Lifetime Achievement,<br>Advocate, Slifka / Ritvo Innovation, Young<br>Investigator, Dissertation & more<br>Keynote Address – Lifetime Achievement Awardee<br>*Yerba Buena 8-9* |
| 5:30 PM – 7:00 PM | Poster Sessions – Adult Outcome; Medical,<br>Cognitive, Behavioral; Brain Function (fMRI, fcMRI,<br>MRS, EEG, ERP, MEG) I; Medical and Psychiatric<br>Comorbidity; Service Delivery/Systems of Care<br>*Golden Gate Ballroom* |
| 7:00 PM – 10:00 PM | INSAR Student Member Social<br>*Thirsty Bear Organic Brewery* |

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

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

**‣ Abstracts with this symbol have been reviewed by the INSAR Cultural Diversity Committee and address an issue of cultural diversity (e.g., race, ethnicity, culture, socioeconomic status, low and middle income countries), a cross-cultural focus or includes a largely diverse population.**

# FRIDAY May 12

| | |
|---|---|
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Integrating Autistic Intellect in Autism Research Part 2: Collaborative Problem Solving<br>*Nob Hill AB* |
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Older Adults with ASD: The Consequences of Aging<br>*Nob Hill CD* |
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Implementing and Evaluating Community-Based Early Intervention<br>*Yerba Buena 3-6* |
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Anxiety in ASD<br>*Yerba Buena 10-14* |
| 8:00 AM – 6:00 PM | Registration Open<br>*Yerba Buena North Registration Desk* |
| 8:00 AM – 5:00 PM | Exhibits Open (see exhibitor list pages 217-218)<br>*Yerba Buena Foyer* |
| 8:00 AM – 6:30 PM | Quiet Room – Open during conference hours. Quiet Room most of the day; networking hours last 1.5 hours<br>*Yerba Buena 2* |
| 8:00 AM – 9:00 AM | Coffee & Pastries<br>*Yerba Buena Foyer* |
| 8:45 AM – 9:00 AM | Welcome Address & Sponsor Update<br>*Yerba Buena 8-9* |
| 9:00 AM – 10:00 AM | Keynote Address – Connie Kasari – Engaging Autism: Interventions for Improving Social Communication Outcomes<br>*Yerba Buena 8-9* |
| 10:00 AM – 10:30 AM | Break<br>*Yerba Buena Foyer* |
| 10:00 AM – 1:40 PM | Innovative Technologies Demonstration<br>*Golden Gate Ballroom* |
| 10:30 AM – 12:00 PM | Panel – Understanding Barriers That Families from Racial/Ethnic Minority Groups in the United States Face in Obtaining an Autism Spectrum Disorder Diagnosis and Services for Their Children<br>*Yerba Buena 3-6* |
| 10:30 AM – 12:00 PM | Panel – Autism with Known Genetic Associations: Implications for 'Idiopathic' Autism<br>*Yerba Buena 7* |
| 10:30 AM – 12:00 PM | Panel – Interventions to Improve Transition Outcomes by Strengthening Environmental Supports<br>*Yerba Buena 8* |
| 10:30 AM – 12:00 PM | Panel – Variability at the Minimally Verbal End of the Spectrum: Evidence from Biology and Behavior<br>*Yerba Buena 9* |
| 12:00 PM – 1:00 PM | Student "Meet the Experts" Luncheon (Pre-registration Required, Student Members Only)<br>*Foothill C* |
| 12:00 PM – 1:00 PM | Cultural Diversity Networking Luncheon (Open – No Pre-registration Required)<br>*Soma* |
| 12:00 PM – 1:00 PM | Autism Community Stakeholder Luncheon (Open – No Pre-registration Required)<br>*Nob Hill Ballroom* |
| 12:00 PM – 1:40 PM | Poster Presentations – Brain Structure (MRI, neuropathology); Diagnostic, Behavioral & Intellectual Assessment; Epidemiology; Family Issues and Stakeholder Experiences I, Miscellaneous<br>*Golden Gate Ballroom* |
| 12:00 PM – 1:40 PM | Lunch Break<br>*On Your Own* |

| **1:45 PM—3:30 PM** | **Oral Sessions 6A – 10B (details follow):** |
|---|---|
| 1:45 PM – 2:35 PM | Oral Session 6A – Maternal Factors that Impact the In Utero Environment and Autism-related Outcomes<br>*Yerba Buena 3-6* |
| 2:40 PM – 3:30 PM | Oral Session 6B – Epidemiology: Risks and Prevalence<br>*Yerba Buena 3-6* |
| 1:45 PM – 2:35 PM | Oral Session 7A – Developmental Processes of Distinct Repetitive and Sensorimotor Behaviors<br>*Yerba Buena 7* |
| 2:40 PM – 3:30 PM | Oral Session 7B – Physiological Markers of Sensory Processes Differentiating ASD and Related NDDs<br>*Yerba Buena 7* |
| 1:45 PM – 2:35 PM | Oral Session 8A – Perception, Memory, Language, and Decision Making<br>*Yerba Buena 8* |
| 2:40 PM – 3:30 PM | Oral Session 8B – Autism and Early Language Development<br>Yerba Buena 8 |
| 1:45 PM – 2:35 PM | Oral Session 9A – Early Developmental Profiles<br>*Yerba Buena 9* |
| 2:40 PM – 3:30 PM | Oral Session 9B – Behavior in High-risk Infants<br>*Yerba Buena 9* |
| 1:45 PM – 2:35 PM | Oral Session 10A – International and Cultural Perspectives on Family Wellbeing<br>*Yerba Buena 10-14* |
| 2:40 PM – 3:30 PM | Oral Session 10B – International and Cross-cultural Perspectives on Early Identification<br>*Yerba Buena 10-14* |
| 3:30 PM – 4:00 PM | Break<br>*Yerba Buena Foyer* |
| 3:30 PM – 4:30 PM | *Autism Research* Author Workshop (Open – No Pre-registration Required)<br>*Yerba Buena 10-14* |
| 3:30 PM – 5:00 PM | Panel – Parent/Caregiver Education Training for ASD – What Is the Best Model for Delivery, and How Do We Best Evaluate Outcomes?<br>*Yerba Buena 3-6* |
| 3:30 PM – 5:00 PM | Panel – Addressing Disparities through Interventions in Diverse Community Systems<br>*Yerba Buena 7* |
| 3:30 PM – 5:00 PM | Panel – Developing Clinically Practicable Biomarkers for Autism Spectrum Disorder<br>*Yerba Buena 8* |
| 3:30 PM – 5:00 PM | Panel – Abnormalities of Neuronal Migration in Autism Spectrum Disorder<br>*Yerba Buena 9* |
| 5:00 PM – 6:30 PM | Poster Sessions – Brain Function (fMRI, fcMRI, MRS, EEG, ERP, MEG) II; Cognition: Attention, Learning, Memory; Interventions – Pharmacologic; Molecular and Cellular Biology; Sensory, Motor, and Repetitive Behaviors and Interests; Social Cognition and Social Behavior II<br>*Golden Gate Ballroom* |

# SATURDAY May 13

| | |
|---|---|
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Promoting Partnerships Between Patient Advocacy Groups and Researchers to Improve Autism Research<br>*Nob Hill AB* |
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Safe and Accessible Transportation for Individuals on the Autism Spectrum: Addressing Barriers to Community Participation<br>*Nob Hill CD* |
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Suicidality in Autism Spectrum Conditions<br>*Yerba Buena 3-6* |
| 7:15 AM – 8:45 AM | Special Interest Group (SIG) – Clinical Strategies for Increasing Inclusion in Neuroscience Research Across the ASD Spectrum<br>*Yerba Buena 10-14* |
| 8:00 AM – 2:00 PM | Registration<br>*Yerba Buena North Registration Desk* |
| 8:00 AM – 12:00 PM | Exhibits Open<br>*Yerba Buena Foyer* |
| 8:00 AM – 3:00 PM | Quiet Room – Open during conference hours. Quiet Room most of the day; networking hours last 1.5 hours<br>*Yerba Buena 2* |
| 8:00 AM – 9:00 AM | Coffee & Pastries<br>*Yerba Buena Foyer* |
| 8:45 AM – 9:00 AM | Welcome Address & Sponsor Update<br>*Yerba Buena 8-9* |
| 9:00 AM – 10:00 AM | Keynote Address – Ami Klin & Warren Jones – Developmental Endophenotypes to Quantify the Emergence of Autism in Infancy<br>*Yerba Buena 8-9* |
| 10:00 AM – 10:30 AM | Break<br>*Yerba Buena Foyer* |
| 10:30 AM – 12:00 PM | Panel – Building a Phenotype: Discoveries of Genetically Distinct Subtypes of ASD<br>*Yerba Buena 3-6* |
| 10:30 AM – 12:00 PM | Panel – Mental Health Crises in Youth with Autism Spectrum Disorder<br>*Yerba Buena 7* |
| 10:30 AM – 12:00 PM | Panel – The Continuum of ASD Across the Lifespan: Stability and Change in Symptoms, Cognitive Skills and Adaptive Functioning Based on Four Independent Cohorts<br>*Yerba Buena 8* |
| 10:30 AM – 12:00 PM | Panel – Altered Sensory Processing and Social Functioning in ASD: Examining Associations and Mechanisms through Multiple Methods and Populations.<br>*Yerba Buena 9* |
| 12:00 PM – 1:00 PM | INSAR Business Meeting<br>*Yerba Buena 3-6* |
| 12:00 PM – 1:00 PM | Lunch Break<br>*On Your Own* |
| 12:00 PM – 1:40 PM | Poster Sessions – Early Development (< 48 months); Family Issues and Stakeholder Experiences II; International and Cross-Cultural Perspectives; Interventions – Non-pharmacologic – School-Age, Adolescent, Adult; Miscellaneous<br>*Golden Gate Ballroom* |
| **1:15 PM—3:00 PM** | **Oral Sessions 11A – 15B (details to follow):** |
| 1:15 PM – 2:05 PM | Oral Session 11A – Mental and Physical Health in Adulthood<br>*Yerba Buena 3-6* |
| 2:10 PM – 3:00 PM | Oral Session 11B – ASD and Sexuality<br>*Yerba Buena 3-6* |
| 1:15 PM – 2:05 PM | Oral Session 12A – Evaluating Social Attention and Reward in Young Children with ASD<br>*Yerba Buena 7* |
| 2:10 PM – 3:00 PM | Oral Session 12B – Contributors to Social Processing Deficits in ASD<br>*Yerba Buena 7* |
| 1:15 PM – 2:05 PM | Oral Session 13A – Innovative Treatments for School-Aged Children<br>*Yerba Buena 8* |
| 2:10 PM – 3:00 PM | Oral Session 13B – Evaluating Outcomes in Social Skills Training<br>*Yerba Buena 8* |
| 1:15 PM – 2:05 PM | Oral Session 14A – Functional Connectivity in ASD: From Infancy to Adulthood<br>Yerba Buena 9 |
| 2:10 PM – 3:00 PM | Oral Session 14B – Early Brain Development<br>*Yerba Buena 9* |
| 1:15 PM – 2:05 PM | Oral Session 15A – Gene Discovery in ASD<br>*Yerba Buena 10-14* |
| 2:10 PM – 3:00 PM | Oral Session 15B – Epigenetics and Transcriptomics<br>*Yerba Buena 10-14* |

**IMFAR Annual Meeting**
**OPENING RECEPTION**

Wednesday, May 10 | 6:00 – 7:30 p.m.
Yerba Buena 7

Open to all IMFAR Registrants

## IMFAR 2017

Annual Meeting abstracts are available online at www.autism-insar.org and in the INSAR Mobile App

# Wednesday, May 10

## Early Career Pre-Conference Workshop

**(pre-registration required)**

12:00 – 3:00 p.m.

Marriott Marquis Hotel; Room - Yerba Buena 2-4

The INSAR Board of Directors and the Student and Trainee Committee are hosting the 4th annual Early Career Workshop. This is a three-hour workshop focused on career trajectories, including a panel discussion on different career paths related to autism research and a small group discussion with faculty and postdoctoral fellows. Reservations were accepted prior to the Meeting; registration and table assignments were confirmed via email.

The career panel will include: Alycia Halladay; Audrey Thurm; Chuck Nelson; Cynthia Zierhut; Judith Miller; Maria Fusaro; Paul Wang

Small group facilitators will be: Ashley Johnson Harrison; Brandon Keehn; Brittany Travers; Caitlin Hudac; Christine Wu Nordahl; Giacomo Vivanti; Guilia Righi; Heather Nuske; Jed Elison; Jill Locke; Jill Lorenzi; Jonathan Lai; Kate Rice Warnell; Katherine Gotham; Kristen Lyall; Laurie Swineford; Mark Shen; Matt Lerner; Meghan Swanson; Michele Villalobos; Sarah Shultz; Susan Faja; Whitney Guthrie

## Cultural Diversity Pre-Conference Workshop

**(pre-registration required)**

1:00 – 5:00 p.m.

Marriott Marquis Hotel; Room - Nob Hill

The pre-conference workshop will highlight the diversity of living with autism within the global community by drawing upon the perspectives of self-advocates and family members. The list of presentations is included below:

Title: Yusuf Can't Talk and Other Stores About Autism in Somali Migrants

Presenters: Nura Aabe, Ingrid Jones, Rosalie Pordes, Sabi Redwood, Dheeraj Rai

Title: Living and Working with Autism: The Role of Mothers in Service Delivery in Mumbai, India

Presenter: Koyeli Sengupta

Title: WHY? A Journey of Autism in Mumbai

Presenter: Parul Kumtha

Title: Right Planet: Examining the Intersections between Neuro- and Cultural Diversity

Presenters: Steven K. Kapp, Rachel S. Brezis, Christopher Elphick, Mary Amoah, Merry Barua, Émilie Cappe, Jacqueline Mathaga, Nathalie Poirier, Alexia Rattazzi, Ginny Russell; Sabine Saade Chebli, Nidhi Singhal, Miyuki Torii, Kai Vogeley, & Kristen Gillespie-Lynch

## Cultural Diversity Meet & Greet

Wednesday, May 10 | 5:00 – 6:00 p.m.

Marriott Marquis Hotel; Room - View Lounge (39th floor)

New to IMFAR? Want to reconnect with other members before the conference? Join us for Happy Hour before the Opening Reception. This event is open to all IMFAR 2017 registrants.

# Thursday, May 11

## Early Career Committee Coffee Hour

**(Open – no pre-registration required)**

12:00 – 1:00 p.m.

Marriott Marquis Hotel – Room: Nob Hill D

The INSAR Board has initiated an Early Career Committee to further meet the needs of INSAR members. If you consider yourself an early career member *(see description below)*, please come and meet your Early Career Committee officers and bring your lunch. We will be presenting data from our survey and discussing our strategic plan/initiatives. Coffee and tea will be provided.

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

## INSAR Student and Trainee Social

7:00 p.m. (directly following the poster session)

Thirsty Bear Organic Brewery, 661 Howard Street

All INSAR Student and Trainee members are invited to join us for an evening of informal socializing and networking with other trainees actively engaged in autism research. We have rented a private space at the Thirsty Bear Organic Brewery for this event. Come and make connections with other students and trainees while enjoying Spanish tapas, billiards, and trivia! Food is free and alcoholic beverages are available for purchase. Vegetarian and gluten-free options provided. No ticket required.

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

# Thursday, May 11 and Friday, May 12

### Student "Meet-the-Experts" Luncheons
**(pre-registration required)**

Lunch period: 12:00 – 1:00 pm each day

Marriott Marquis Hotel • Thursday (Nob Hill A-C) & Friday (Foothill C)

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

**Thursday, May 11th:** Laura Anthony, Somer Bishop, Susan Bookheimer, Tony Charman, Robert Hendren, Warren Jones, Connie Kasari, Carla Mazefsky, Celine Saulnier, Ben Yerys, Lonnie Zwaigenbaum

**Friday May 12th:** Simon Baron-Cohen, Cheryl Dissanayake, Hilde Geurts, Ami Klin, Laura Klinger, Pat Levitt, Eric London, Julie Lounds-Taylor, Stephen Sheinkopf, Fred Shic, Jason Wolff

# Friday, May 12

### Community Advisory Committee (CAC) Community Stakeholder* Luncheon
**(Open – no pre-registration required)**

12:00 – 1:00 p.m.

Marriott Marquis Hotel • Room: Nob Hill Ballroom

Autism stakeholders are invited to attend the 8th annual Stakeholder* Luncheon. This event is organized by members of the INSAR Community Advisory Committee (CAC) as an avenue to bridge the gap between scientists and members of the autism community. Pre-registration is not required. *Bring your lunch with you to the session.* Hosted by the INSAR CAC.

**The term "stakeholder" has various definitions. In the context of the CAC, a stakeholder is someone who is affected by or has a personal investment in autism.*

Co-sponsored by: Autism Science Foundation, Autism Speaks and Simons SPARK

### Cultural Diversity Networking Luncheon
**(Open – no pre-registration required)**

12:00 – 1:00 p.m.

Marriott Marquis Hotel • Room: Soma

Come and network with others interested in cultural diversity. Bring your lunch to the room. No pre-registration required.

### *Autism Research* Author Workshop
**(Open – no pre-registration required)**

3:30 – 4:30 p.m.

Marriott Marquis Hotel • Room: Yerba Buena 10-14

**Speakers:** Editor-in-Chief of *Autism Research* Dr. David Amaral, Wiley Publisher Natalia Ortuzar, and *Autism Research* Associate Editors

The Editor-in-Chief of *Autism Research*, Dr. David Amaral will lead a workshop covering everything you need to know on how to publish your next paper, including an overview of best practices for writing and submitting your paper, and maximizing the impact of your research.

# IMFAR 2017 KEYNOTE SPEAKERS

**Pat Levitt, PhD - Thursday Keynote**

*Simms/Mann Chair in Developmental Neurogenetics, Institute for the Developing Mind, Children's Hospital Los Angeles*

*WM Keck Provost Professor of Neurogenetics, Keck School of Medicine of University of Southern California (USC)*

Pat Levitt directs the Developmental Neurogenetics Program of the Institute for the Developing Mind at Children's Hospital Los Angeles and the USC Neuroscience Graduate Program. Levitt is an elected Fellow of the American Association for the Advancement of Science (AAAS), and an elected member of the National Academy of Medicine. He also serves as Co-Scientific Director of the National Scientific Council on the Developing Child, a policy council that brings the best research from child development and neuroscience to assist state and federal policy makers and private sector business leaders in making wise decisions regarding program investment. Levitt's research program focuses on the development of brain circuitry that controls learning, emotional and social behavior. Basic research involves determining the genetic and environment factors that influence circuit formation and the underlying influence of individual differences (heterogeneity) in complex behaviors. Clinical research addresses individual differences in symptoms exhibited by children with autism who also have co-occurring medical conditions, as well as very young children exposed to adversity early in life that disrupts a child's short- and long-term mental and physical health.

**Connie Kasari, PhD - Friday Keynote**

*Professor of Human Development and Psychology, and Psychiatry, University of California, Los Angeles*

Since 1990, Dr. Kasari has been on the faculty at UCLA where she teaches both graduate and undergraduate courses, and has been the primary advisor to more than 50 PhD students. Her research aims to develop novel, evidence-tested interventions implemented in community settings. Recent projects include targeted treatments for early social communication development in at-risk infants, toddlers and preschoolers with autism, and peer relationships for school aged children with autism. She leads several large multi-site studies including a network on interventions for minimally verbal school aged children with ASD, and a network that aims to decrease disparities in interventions for children with ASD who are under-represented in research trials.

**Ami Klin, PhD - Saturday Joint Keynote**

*Director of the Marcus Autism Center at Children's Healthcare of Atlanta and Emory University School of Medicine*

*Georgia Research Alliance Eminent Scholar Professor and Chief of the Division of Autism and Developmental Disorders in the Department of Pediatrics at Emory*

Dr. Klin obtained his PhD from the University of London, and completed clinical and research post-doctoral fellowships at the Yale Child Study Center. Subsequently, Dr. Klin directed Yale's Autism Program and its NIH Autism Center of Excellence, and was the Harris Professor of Child Psychology & Psychiatry at Yale School of Medicine. The Marcus Autism Center is one of the largest centers of clinical care in the US and an NIH Autism Center of Excellence, with a comprehensive interdisciplinary program of research in basic, clinical and implementation science. Dr. Klin's research activities addresses developmental aspects of social mind and social brain, from infancy through adulthood, with a current emphasis on lab- and community-based methods for advancing universal early screening, for promoting social-communication wellness, and for augmenting access to early intervention services. Together with Dr. Warren Jones, he has pioneered research methods for visualization and quantification of social visual engagement and reciprocal social interaction.

**Warren Jones, PhD - Saturday Joint Keynote**

*Director of Research at the Marcus Autism Center at Children's Healthcare of Atlanta and Emory University School of Medicine*

*Norman Shutters Chair in Autism & Social Neuroscience and Assistant Professor in the Department of Pediatrics at Emory*

Dr. Jones completed his PhD in Neuroscience at Yale University School of Medicine. Together with Dr. Ami Klin, he has pioneered research methods for visualization and quantification of social visual engagement and reciprocal social interaction. Dr. Jones directs the Social Neuroscience Laboratory at the Marcus Autism Center, which focuses on mapping and quantifying the developmental course of social disability in autism spectrum disorder from birth through young adulthood. His research goals are measuring and quantifying the behavioral, brain and genetic foundations of social development in order to better understand the causes and consequences of autism and related disabilities. Dr. Jones leads development of a series of tools arising from this research aimed at future efforts to inform early identification and intervention.

## INSAR Lifetime Achievement Award

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

### Mary Coleman, MD

Mary Coleman is a neurologist who helped establish that autism is a series of diseases, rather than a single disease, by her landmark study The Autistic Syndromes (1976). In this study of 78 children with autism matched with 78 age, sex and parent-income controls, the multiplicity of disease entities was clear: for example, the whole blood serotonin levels were either elevated in one patient group, normal range in another group or low in a third group, results which have been duplicated many times since. Probably the most important individual result of the 1976 study was the finding that 22% of children with autism had hypocalcinuria, which eventually led to a treatment resulting in suppression of ocular self-injury in a subgroup of those hypocalcinuric patients.

Mary Coleman attended University of Chicago (college), George Washington University (medical school), Mt. Sinai NY (internship), Columbia Presbyterian NY (adult neurology residency) and Children's Hospital of Washington D.C. (pediatric neurology residency). In addition to the 1976 study, her books on autism include The Neurology of Autism (2005) and four textbooks written with Christopher Gillberg (1985, 1992, 2000, 2012) as well as 70 published papers on the subject of autism. She is Emeritus Clinical Professor at Georgetown University School of Medicine and Director of the Foundation for Autism Research, Inc.

## INSAR Advocate Award

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

### Alison Singer

Alison Singer is Co-Founder and President of the Autism Science Foundation, a non-profit organization dedicated to funding innovative autism research and supporting the needs of people with autism. As the mother of a 19 year-old daughter with autism and legal guardian of her older brother with autism, she is a natural advocate. Since 2007, Singer has served on the federal Interagency Autism Coordinating Committee (IACC), which is charged with writing an annual strategic plan to guide federal spending for autism research. She serves on the executive boards of the Yale Child Study Center, the Seaver Autism Center at the Icahn School of Medicine at Mount Sinai, the Marcus Autism Center at Emory University, and the UNC Autism Research Center, as well as on the external advisory board of the CDC's Center for Birth Defects and Developmental Disabilities, the New York State Immunization Advisory Committee, and the Simons Foundation SPARK advisory board. In 2012, the American Academy of Pediatrics named her an "autism champion." Singer chairs the INSAR Communications Committee and serves on the IMFAR Program Committee. Prior to founding the Autism Science Foundation in 2009, she served as executive vice president of Autism Speaks and as a vice president at NBC. She graduated magna cum laude from Yale University with a B.A. in Economics and has an MBA from Harvard Business School. In her free time, she enjoys kickboxing, cross-fit, and judging high school debate tournaments.

---

## Slifka/Ritvo Innovation in Autism Research Award

The Alan B. Slifka Foundation promotes innovative research on autism spectrum disorders conducted by junior investigators. The objective of the award is to lead to new treatments and improvements in the quality of life of individuals with autism. The Foundation provides one $25,000 (for one year) research award to an INSAR member. The award may support clinical research (diagnosis or treatment of autism or educational efforts) or basic research (epidemiology, genetics, neuroscience, immunology etc).

The goal of the Slifka/Ritvo Award is to support promising junior investigators to pursue excellent research for which they do not have funding and are not likely to get funding readily. The recipient of the Slifka/Ritvo Award will be recognized at the Awards Ceremony at IMFAR.

Meng-Chuan Lai, MD, PhD University of Toronto
*An Imaging-Genomics Investigation on Sex-Informed Neurobiology of Autism*

## Dissertation Awards

Dissertation Awards are given annually to active scientists and clinicians in training in all areas of autism research. Awards are for the best basic science dissertation and for the best clinical/behavioral dissertation in autism accepted by the university in the year 2016. These awards provide a stipend of $1,500 each.

| | |
|---|---|
| Dorothea Floris | Autism Research Centre |
| Alexandra Havdahl | The Norwegian Institute of Public Health |
| Lauren Schmitt | UT Southwestern Medical Center at Dallas |

## Young Investigator Awards

Young Investigator Awards are given for the best biological and clinical empirical research papers published or in press in 2016, by an investigator who has been awarded their PhD or MD in the past seven years. These awards provide a stipend of $1,500 each.

Lior Brimberg — Feinstein Institute for Medical Research

Brimberg, L; Mader, S; Jeganathan, V; Berlin, R; Coleman, RT; Gregersen, PK; Huerta, P; Volpe, BT; Diamond, B (2016): Caspr2-reactive antibody cloned from a mother of an ASD child mediates an ASD-like phenotype in mice. *Molecular Psychiatry,* 21(12):1663-1671.

Abigail Dickinson — University of California Los Angeles

Dickinson, A.; Bruyns-Haylett, M.; Smith, R.; Jones, M.; & Milne, E. (2016). Superior orientation discrimination and increased peak gamma frequency in autism spectrum conditions. *Journal of Abnormal Psychology,* 125(3), 412.

## Diversity Travel Awards

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

| | |
|---|---|
| Cory Coleman | UC Davis M.I.N.D. Institute |
| Anthony Goodwin | Southwest Autism Research & Resource Center |
| Jose Maximo | University of Alabama at Birmingham |
| Kritika Nayar | Northwestern University |
| Andrew Olagunju | College of Medicine, University of Lagos |
| Anthony Osuna | University of California, Los Angeles |
| Alexandra Petrou | Newcastle University |
| Lauren Usher | Waisman Center, University of Wisconsin-Madison |
| Sandra Vanegas | University of Illinois at Chicago |
| Zachary Williams | Yale Child Study Center |
| Yen-Tzu Wu | National Taiwan University |
| Luodi Yu | University of Minnesota |
| Waganesh Zeleke | Duquesne University |

## Professionals from Low Income Countries Travel Awards

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

| | |
|---|---|
| Increase Adeosun | Babcock University, Ilishan-Remo, Nigeria |
| Natalia Barrios | Instituto FLENI PANAACEA |
| Salah Basheer | National Institute of Mental Health and Neurosciences |
| Elizabeth Campbell | Lagos University Teaching Hospital |
| Sebastian Cukier | Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista |
| Naoufel Gaddour | Bourguiba University Hospital |
| Michelle Hoogenhout | University of Cape Town |
| Sowmyashree Kaku | NIMHANS |
| Prahbhjot Malhi | Post Graduate Institute of Medical Education and Research |
| Supriya Malik | University of Birmingham |
| Yewande Oshodi | University of Lagos College of Medicine |
| Pooja Panchal | National Institute of Mental Health and Neurosciences |
| Koyeli Sengupta | Ummeed Child Development Center |
| Jannatara Shefa | Dhaka University |
| Eva Trinh | University of Alabama at Birmingham |
| Ha Vu | Center for Creative Initiatives in Health and Population |
| Adel Zeglam | Al-Khadra Teaching Hospital |

## Student Travel Awards

Student Travel Awards are available to graduate students, postdoctoral fellows, and medical students and residents actively engaged in autism research. These awards provide a stipend of $500 each. First priority is given to students who are presenting their own original research at IMFAR 2017 and who have not previously received an INSAR Student Award.

| | |
|---|---|
| Carly Albaum | York University |
| Alexis Arias | Marquette University |
| Emma Baker | Olga Tennison Autism Research Centre |
| Lorien Baker | University of Alabama |
| Catherine Bent | La Trobe University |
| Jennifer Bertollo | The Center for Autism Research/CHOP |
| Erin Bojanek | University of Kansas |
| April Choi | Harvard University |
| Tessa Clarkson | Stony Brook University |
| Marika Coffman | Virginia Tech |
| Valérie Courchesne | Université de Montréal |
| Talena Day | Yale Child Study Center |
| Reina Factor | Virginia Tech |
| Claire Foster | Yale Child Study Center |
| Laura Fusar-Poli | University of Pavia |
| Rachel Greene | University of North Carolina at Chapel Hill |
| Sarah Hampton | University of Cambridge |
| Lindsay Hauptman | University of California, Los Angeles |
| Alexandra Hendry | King's College London |
| Perrine Heymann | Yale Child Study Center |
| Lauren Hollier | University of Western Australia |
| Emily Isenstein | Seaver Autism Center |
| Cailen Jennings | The College of Staten Island (CUNY) |
| Finola Kane-Grade | Yale University |
| Erin Kang | Stony Brook University |

*continued on page 16*

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

## Student Travel Awards *continued*

| | |
|---|---|
| Jessica Keith | University of Rochester |
| Jessica Kinard | University of North Carolina at Chapel Hill |
| Elaine Kwok | University of Western Ontario |
| Jonathan Lai | York University |
| Margaret Laurie | University of Edinburgh |
| Jiedi Lei | Yale Child Study Center |
| Kathryn McNaughton | Yale University School of Medicine |
| Anna Milgramm | Yale Child Study Center |
| Laura Morett | Yale Child Study Center |
| Danielle Morriss | Warren Alpert Medical School |
| Maya Mosner | University of North Carolina at Chapel Hill |
| Busisiwe Ncube | York University |
| Leona Oakes | University of Rochester Medical Center |
| Lindsay Olson | Marcus Autism Center |
| Jessica Page | |
| Ashley Pallathra | University of Pennsylvania |
| Alexandra Petrou | Newcastle University |
| Hannah Pickard | King's College London |
| James Rankin | The University of Alabama, Tuscaloosa |
| Kenia Rivera | |
| Alexis Rodgers | University of Kentucky |
| Max Rolison | Yale University |
| Tamara Rosen | Stony Brook University |
| Kimberly Schauder | University of Rochester |
| Hillary Schiltz | Marquette University |
| Mark Shen | University of North Carolina |
| Wendy Shih | UCLA |
| Stephanie Shire | University of California Los Angeles |
| Michelle Siu | The Hospital for Sick Children and Bloorview Kids Rehab |
| Rebecca Thomas | Center for Autism Research |
| Hasmik Tokadjian | Brown Center for the Study of Children at Risk |
| Julie Trapani | Yale University |
| Hope Turner | Yale Child Study Center |
| Wing Hang Wong | University of Kentucky |
| Jennifer Wood | The Children's Hospital of Philadelphia |

## Early Career Workshop Travel Awards

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

| | |
|---|---|
| Laura Hansen | University of Southern Mississippi |
| Abigail Hogan | University of South Carolina |
| Alana McVey | Marquette University |
| Lauren Schmitt | UT Southwestern Medical Center at Dallas |
| Shuting Zheng | University of North Carolina at Chapel Hill |

## Cultural Diversity Poster Award

The Cultural Diversity Poster Award recognizes innovative research focused on issues of racial/ethnic/cultural/socioeconomic diversity in autism with the potential to have a significant impact on traditionally underserved communities.

Aubrey Kumm University Of Cape Town
Poster Presentation #180.156
Feasibility of a Smartphone Application to Identify Young Children at Risk for Autism Spectrum Disorder in a Low-Income, Community Setting in South Africa

# ACKNOWLEDGMENTS



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

## INSAR Board of Directors (2015 - 2017)

**President**
Geraldine Dawson, PhD
Duke University School of Medicine

**President-Elect**
Simon Baron-Cohen, PhD
University of Cambridge

**Vice-President**
Craig Newschaffer, PhD
A.J. Drexel Autism Institute

**Treasurer**
Raphael Bernier, PhD
University of Washington

**Secretary**
Katarzyna Chawarska, PhD
Yale Child Study Center
Yale University School of Medicine

**Past-President**
Francesca Happé, FBA
King's College London

**Past-Treasurer**
James McPartland, PhD
Yale Child Study Center

**Editor-in-Chief *Autism Research* Journal**
David G. Amaral, PhD
The M.I.N.D. Institute
University of California, Davis

(President-Elect joined the Board in 2016)

## INSAR Committees

**Awards Committee**
Chair: Matthew Lerner, Stony Brook University

**Communications Committee**
Chair: Alison T. Singer, Autism Science Foundation

**Community Advisory Committee**
Chair: John Elder Robison, College of William & Mary

**Cultural Diversity Committee**
Co-Chair: Marshalyn Yeargin-Allsopp, Centers for Disease Control and Prevention
Co-Chair: Alexia Rattazzi, PANAACEA
Co-Chair: Sandra Vanegas, University of Illinois at Chicago

**Early Career Committee**
Chair: Michele Villalobos, TEACCH Autism Program

**Finance Committee**
Co-Chair: Raphael Bernier, University of Washington
Co-Chair: Deborah Hilibrand, Hilibrand Foundation

**Membership Committee**
Chair: Susan Y. Bookheimer, University of California, Los Angeles

**Nominations & Elections Committee**
Chair: Marshalyn Yeargin-Allsopp, Centers for Disease Control and Prevention

**Scientific Standards Committee**
Chair: David Amaral, The MIND Institute, University of California, Davis

**Special Interest Group (SIG) Committee**
Co-Chair: Mayada Elsabbagh, McGill University
Co-Chair: Laura Anthony, Children's National Medical Center

**Student & Trainee Committee**
Chair: Carolyn McCormick, Brown University

**IMFAR Meeting Committee**
Chair: Robert Hendren, University of California, San Francisco
Co-Chair: Vanessa Hus Bal, University of California, San Francisco

**IMFAR Scientific Program Committee**
Co-Chair: Susan Bookheimer, University of California, Los Angeles
Co-Chair: Matthew State, University of California, San Francisco

**INSAR Staff**
Jennifer Gentry
Administrative Director

Donna Cunard
Financial Manager

Kathy Hucks
Association Administrator

**INSAR Meeting Planning – Conference Direct**
Joe Dymek

Jennifer Marshall

**INSAR Abstracts – Confex**
Joshua Andrews

# ACKNOWLEDGEMENTS

## Meeting Committee

**Robert Hendren**
Meeting Committee Co-chair
**Vanessa Hus Bal**
Meeting Committee Co-chair

Katy Ankenman
Somer Bishop
Whitney Ence
Megan Fok
Tara Glavin
Tomoya Hirota
Patricia Hong
Young-Shin Kim
Robert Matt Kinkel
Bennett Leventhal
Greg Lyons
Janet Miller
Tara Rooney
Erin Rosenberg
Alexis Sullivan
Michael Sweeney
Tracy Warren
Felicia Widjaja

## Scientific Program Committee

**Susan Bookheimer**
**Matthew State**
Program Committee
Co-Chairs

Dermot Bowler
Lauren Brookman-Frazee
Mirella Dapretto
Gabriel Dichter
Mayada Elsabbagh
Matthew Goodwin
Shafali Jeste
Connie Kasari
Bryan King
Laura Klinger
Liz Laugeson
Matthew Mosconi
Declan Murphy
Craig Newschaffer
Celine Saulnier
Larry Scahill
Alison Singer
Jim Sutcliffe
Jeremy Veenstra-VanderWeele
Lonnie Zwaigenbaum

## Topic Review Co-Chairs

Jessica Brian
Jan Buitelaar
Tony Charman
Christine Ecker
Mayada Elsabbagh
Sebastian Gaigg
Ofer Golan
Vanessa Hus Bal
Anett Kaale
David Mandell
Matthew Mosconi
Alan Packer
Natalie Russo
Mustafa Sahin
Fred Shic
Young Shin Kim
Cory Shulman
Emily Simonoff
Aubyn Stahmer
Lucina Uddin
Kandice Varcin

## Abstract Reviewers

Kaat Alaerts
Gail Alvares
Laura Anthony
Michal Assaf
Mary Baker-Ericzen
Leslie Baxter
Leandra Berry
Terrence Bethea
David Beversdorf
Lucy Bilaver
Josephine Blagrave
Gene Blatt
Valerie J. Bolivar
Sven Bolte
Kristen Bottema-Beutel
Catherine Bradley
Nancy Brady
Lior Brimberg
Alan S. Brown
Audrey Brumback
Maria Rita Bueno
Jan Buitelaar
Jacob Burack
Courtney Burnette
Sara Calderoni
Jonathan Campbell
Henry Carretta
Audrey Carson
Carissa Cascio
Sarah Cassidy
Susie Chandler
Tony Charman
Keely Cheslack-Postava
Debra Childress
Colby Chlebowski
Deborah Christensen
Emily Coderre
Marija Colic
Barbara Cook
Edwin Cook
Daniel L. Coury
Lisa Crabtree
Lisa Croen
Holly N. Cukier
Katherine Davlantis
Ashley de Marchena
Jonathan Delafield-Butt
Pushpal Desarkar
Laura Dewey
Adriana Di Martino
Gabriel Dichter
Emanuel DiCicco-Bloom
Ashley Dillon
Charlotte DiStefano
Sarah Dufek
Maureen Durkin
Jessica Dykstra Steinbrenner
Christine Ecker
Inge-Marie Eigsti
Jennifer Elder
Jacob Ellegood
Evan Elliott
Mayada Elsabbagh
Charlotte Exner
Susan Faja
M. Daniele Fallin
Casara Ferretti
Jillian Filliter
Inna Fishman
Sue Fletcher-Watson
Dorothea Floris
Eric Fombonne
Jennifer Foss-Feig
Thomas Frazier
Georgia Frey
Lawrence Fung
Terisa Gabrielsen
Grace Gengoux
Hilde Geurts
Kristen Gillespie-Lynch
Sonya Girdler
Cheryl Glazebrook
Robin Goin-Kochel
Sylvie Goldman
Matthew Goodwin
Katherine Gotham
Rolanda Gott
Georgianna Gould
Anne-Pierre Goursaud
Dido Green
Shulamite Green
Ruth Grossman
Chris Gunter
McLeod Gwynette
Arlene Hagen
Christine Hall
Alycia Halladay
Syed Usman Hamdani
Benjamin Handen
Ellen Hanson
Jill Harris
Ashley Harrison
Clare Harrop
Susan Hedges
Sissel Berge Helverschou
Robert Hendren
Kristien Hens
Sabri Herguner
Orit Hetzroni
Laura Hewitson
Ashleigh Hillier
Claudia Hilton
Patricia Howlin
Shiyong Huang
Lark Huang-Storms
Sarah Hurwitz
Vanessa Hus Bal
Susan Hyman
Teresa Iacono
Brooke Ingersoll
Ana-Maria Iosif
Laudan Jahromi
Rebecca Jones
Tiffany Jones
Amanda Jozkowski
Amy Kalkbrenner
Rajesh Kana
Connie Kasari
Shubha Kashinath
Brandon Keehn
Elizabeth Kelley
Elizabeth Kemeny
Tal Kenet
Daniel Kennedy
Lauren Kenworthy
Michaela Kilander
Bryan King
Cheryl Klaiman
Laura Klinger
Mark Klinger
Judah Koller
Sara Kover
Suzanne Kucharczyk
Karen Kuhlthau
Margaret Kurzius-Spencer
Azadeh Kushki
Clara Lajonchere
Anna Lamikanra
Oriane Landry
Amandine Lassalle
Elizabeth Laugeson
Brian Lee
Hye Young Lee
Li-Ching Lee
Matthew Lerner
April Levin
Yonata Levy
Mark Lewis
Longchuan Li
Klaus Libertus
Rebecca Lieberman-Betz
Yu-Chih Lin
Erik Linstead
Jill Locke
William Lohr
Isabel Lopez Saffie
Anne Luebke
Iliana Magiati
David Mandell
Stacy Manwaring
Leslie Markowitz
Hideo Matsuzaki
Sofia Mavropoulou
Helen McConachie
Keith McLarren
Camilla McMahon
William M. McMahon
James McPartland
Kathryn McVicar
Shoba Meera
Sunil Mehta
Judith Miller
Sarah Mire
Elisabeth Mitchell
Cecilia Montiel-Nava
Lindee Morgan
Michael J. Morrier
Matthew W. Mosconi
Joanna Mussey
Adam Naples
A. Rebecca Neal-Beevers
Ann Neumeyer
Cassandra Newsom
Christine Nordahl
Karen O'Connor
Andrew Olagunju
Asher Ornoy
Yewande Oshodi
Sally Ozonoff
Albertyna Paciorek
Juhi Pandey
Despina Papoudi
Julia Parish-Morris
Valentina Parma
Jane Paul
Amanda Pearl
Lucia Peixoto
Elizabeth Pellicano
Margaret Pericak-Vance
Antonio Persico
Jennifer Phillips
Anilkumar Pillai
Jennifer Pinto-Martin
Craig Powell
Kathleen Quill
Dheeraj Rai
Alexia Rattazzi
Caitlin Ravichandran
Raanan Raz
Elizabeth Redcay
Alexandre Reymond
Amanda Richdale
Elizabeth Ridgway
Sarah Rieth
Ashley Robertson
Sylvia Rodger
Herbert Roeyers
Veerle Ross
Erin Rotheram-Fuller
Lisa A. Ruble
Natalie Russo
Rachel Saffo
Rodney Samaco
Susan Santangelo
Noah Sasson
Celine Saulnier
Roseann Schaaf
Synnve Schjolberg
Cynthia Schumann
A. J. Schwichtenberg
Amie Senland
Frank Sharp
Mary Sharp
Frederick Shic
Andy Shih
Cory Shulman
Jill Silverman
David Simmons
Emily Simonoff
Maria Sindelar
Daniel Smith
Stephen Smith
Tristram Smith
Nathaniel Snyder
Fumio Someki
Isabelle Soulières
Mikle South
Sarah Spence
Nicole Stadnick
Jennifer Stapel-Wax
Kerri Staples
Katherine Stavropoulos
Lesley Stirling
Jessica Suhrheinrich
Lauren Swineford
Helen Tager-Flusberg
Hidetoshi Takahashi
Zohreh Talebizadeh
Barbara Thompson
Audrey Thurm
Theodore Tomeny
Rebekah Travis
David Trembath
Peter Tsai
Daniel Valdez
Sandra Vanegas
Kandice Varcin
Pamela Ventola
Michele Villalobos
Heather Volk
Stephen Walker
Greg Wallace
Katherine Walton
Chongying Wang
Zheng Wang
Linda Watson
Ya Wen
Oliver Wendt
Gayle Windham
Max Wiznitzer
Jason Wolff
Patricia Wright
Gulnoza Yakubova
Marshalyn Yeargin-Allsopp
Benjamin Yerys
Adel Zeglam
Waganesh Zeleke
Lonnie Zwaigenbaum

## Welcome Address and INSAR President's Address

8:30 - Welcome from IMFAR Organizers
8:45 - INSAR President's Address
Yerba Buena 8-9

## Keynote Address

101 - Biological Origins of Autism Heterogeneity
9:00 AM - 10:00 AM - Yerba Buena 8-9

Speaker: Pat Levitt, PhD, Children's Hospital Los Angeles and University of Southern California

Typically developing individuals exhibit broad heterogeneity in cognitive, social and emotional behaviors. While neuroscientists are still struggling with understanding the mechanisms that underlie this heterogeneity, the field now has recognized that individual differences, even between two individuals with the same categorical neurodevelopmental diagnosis, can be profound. Thus, the identical causal mutation often leads to clinical symptoms that may differ widely in those who are affected. These differences, in turn, create challenges for implementing the most effective clinical treatments. Studies will be presented that characterize the biological nodes that may contribute to functional heterogeneity. Experiments address the heritable contributions to behavioral heterogeneity broadly, and that different components of complex behavior may be impacted by distinct genetic factors. Moreover, studies will be presented that address circuit, molecular and cellular mechanisms that underlie differences in neurodevelopmental trajectories of vulnerable circuitry. The presentation will emphasize new ideas regarding the biological nodes as being dynamic, and influenced by genetic and environmental factors – all of which can contribute to the thinking about the most effective ways to move away from 'one size fits all' approaches to treatment.

## Panel Session

102 - Autism and Intellectual Disability: Patterns of Familial and Environmental Risk
10:30 AM - 12:00 PM - Yerba Buena 3-6

*Session Chair:* B. Lee, *Drexel University, Philadelphia, PA*

*Discussant:* A. Reichenberg, *Mount Sinai School of Medicine, New York, NY*

Although autism spectrum disorders (ASD) are clearly heterogeneous, many risk factor studies often consider ASD as a single entity. However, there is increasing evidence that different genetic and environmental risk factors may predispose to different subtypes of ASD. The purpose of this session is to examine the epidemiological, familial, and genetic evidence regarding how patterns of ASD risk may vary by conditions often noted to co-occur with ASD, especially intellectual disability (ID). The first talk will provide an overview of environmental risk factors that have been observed to have divergent associations for ASD with versus without ID. The second talk will discuss how paternal intelligence and child ASD are associated in a Swedish sample, taking into account co-occurring ADHD and ID. The third talk will discuss how ASD risk is related to cross-disorder risk of other psychiatric diagnostic groups, using a sibling design study from Israel. The fourth talk uses genetic data from two well-characterized samples to examine how common polygenic risk for ASD, educational attainment, schizophrenia, and intelligence are related. Attendees will come away with a greater understanding of the nosologic and etiologic implications in considering ASD with and without co-occurring ID.

10:30 102.001 Do the Determinants of Autism Vary By Intellectual Disability? a Critical Review of the Concept of the Autism Spectrum and Its Relevance to Epidemiology D. Rai[1], C. Magnusson[2] and C. Dalman[2], (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden

10:50 102.002 The Association of Paternal IQ with Autism Spectrum Disorders and Its Comorbidities R. M. Gardner[1], C. Dalman[2], D. Rai[3], B. Lee[4] and H. Karlsson[5], (1)Karolinska Institutet, Stockholm, SWEDEN, (2)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (3)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (4)Drexel University, Philadelphia, PA, (5)Neuroscience, Karolinska Institutet, Stockholm, Sweden

11:10 102.003 Shared Genetic Risk Across Psychiatric Disorders S. Sandin[1] and A. Reichenberg[2], (1)Icahn School of Medicine at Mount Sinai, New York, NY, (2)Mount Sinai School of Medicine, New York, NY

11:30 102.004 Polygenic Transmission Disequilibrium Clarifies Common Variant Influences on Cognition in ASDs D. J. Weiner[1,2], E. Wigdor[1,2], M. Daly[3] and E. B. Robinson[1,2], (1)Broad Institute, Cambridge, MA, (2)Analytic and Translational Genetics Unit, Department of Medicine, Massachusetts General Hospital and Harvard Medical School, Boston, MA, (3)Massachusetts General Hospital, Boston, MA

11:50 Discussant

## Panel Session

103 - Brain Imaging and Cognition: Findings of the Longitudinal European Autism Project
10:30 AM - 12:00 PM - Yerba Buena 7

*Session Chair:* J. K. Buitelaar, *Radboud University Nijmegen Medical Centre, Nijmegen Centre for Evidence-Based Practice, Nijmegen, NH, NETHERLANDS*

*Discussant:* D. G. Murphy, *Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom*

Autism Spectrum Disorder (ASD) is a common neurodevelopmental disorder but effective medical treatments for the core symptoms are still lacking. Although novel genetic and pre-clinical approaches are beginning to identify aetiology-based treatment targets there are still considerable challenges in testing them in clinical trials. This includes the need for objective diagnostic, stratification, and outcome measures that are accepted by international

regulatory authorities. The EU-AIMS Longitudinal European Autism Project (LEAP) is a multi-centre, multi-disciplinary study to identify biomarkers that will allow stratification of patients into more biologically homogenous subgroups; and that may serve as surrogate endpoints. The European Medicines Agency (EMA) broadly endorsed the proposed population selection criteria and methodologies (cognitive, eye-tracking, EEG, MRI, FMRI, and biochemical biomarkers) for patient stratification (Loth et al., 2015). This panel will present the first results of the analyses of cognitive tasks, activation tasks using functional MRI, neural network architecture using resting-state MRI data and structural MRI data on volumetry, cortical thickness and surface area. The results will be discussed with the classical case-control paradigm, but also from the perspective of approaches for stratification of ASD.

10:30 103.001 Identifying Cross-Domain Cognitive Subtypes Among Children, Adolescents and Adults with Autism Spectrum Disorders
E. Loth[1], J. Ahmad[2], L. Mason[3], D. V. Crawley[4], H. L. Hayward[5], A. San Jose Caceres[6], B. Oakley[6], T. Charman[2], J. E. Tillmann[2], E. Jones[7], R. Holt[8], C. C. Bours[9], M. C. Lai[10], M. V. Lombardo[11], S. Baron-Cohen[11], M. H. Johnson[12], J. K. Buitelaar[13], D. G. Murphy[14] and G. Dumas[15], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)CBCD, Birkbeck, University of London, Gravesend, UNITED KINGDOM, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry Psychology and Neuroscience, King's College London, London, United Kingdom, (6)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7)Birkbeck, University of London, London, UNITED KINGDOM, (8)Autism Research Centre, University of Cambridge, Cambridge, UNITED KINGDOM, (9)Department of Cognitive Neuroscience, Radboud University Medical Center, Nijmegen, The Netherlands, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (10) Psychiatry, University of Toronto, Toronto, ON, CANADA, (11) Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (12)School of Psychology, Birkbeck College, London, United Kingdom, (13)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (14)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (15)Institut Pasteur, Paris, France

10:50 103.002 The Neuroanatomy of ASD in a Large and Clinically Heterogeneous Sample – Preliminary Results of the EU-AIMS Longitudinal European Autism Project (LEAP)
C. Ecker[1,2], R. Toro[3], D. Goyard[4], D. Andrews[5], E. Loth[6], J. K. Buitelaar[7,8,9], D. G. Murphy[2] and A. Grigis[10], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany, (2)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Institut Pasteur, Paris, FRANCE, (4)Neurospin, CEA, Université Paris-Saclay, Gif sur Yvette, France, (5)King's College London, London, UNITED KINGDOM, (6)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7)Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (8) Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (9) Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (10)UNATI, Neurospin, CEA, Universite Paris-Saclay, Gif-sur-Yvette, France

11:10 103.003 A Multi-Site Investigation of Functional MRI Responses in the Longitudinal European Autism Project (LEAP) Cohort
C. Moessnang[1], S. Baumeister[2], D. Goyard[3], K. Otto[1], S. Baron-Cohen[4], S. Durston[5], A. M. Persico[6], W. Spooren[7], D. G. Murphy[8], E. Loth[9], J. K. Buitelaar[10], T. Banaschewski[11], D. Brandeis[2], H. Tost[1] and A. Meyer-Lindenberg[12], (1)Department of Psychiatry and Psychotherapy, Central Institute of Mental Health, University of Heidelberg, Mannheim, Germany, (2)Department of Child and Adolescent Psychiatry and Psychotherapy, Central Institute of Mental Health, Mannheim, Germany, (3)Neurospin, CEA, Université Paris-Saclay, Gif sur Yvette, France, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (5)Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, NETHERLANDS, (6) University of Messina, Rome, ITALY, (7)Roche Pharmaceutical Research and Early Development, NORD Discovery and Translational Area, Roche Innovation Center, Basel, Switzerland, (8)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (10)Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (11)Central Institute of Mental Health, University of Heidelberg, Heidelberg, GERMANY, (12) Central Institute of Mental Health, Mannheim, Mannheim, Germany

11:30 103.004 Analysis of the Resting-State fMRI Data of the EU-AIMS Longitudinal European Autism Project (LEAP)
M. Oldehinkel[1,2], M. Mennes[1], C. F. Beckmann[1,3] and J. K. Buitelaar[1,2,4], (1)Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (2)Department of Cognitive Neuroscience, Radboud University Medical Centre, Nijmegen, Netherlands, (3) Centre for Functional MRI of the Brain, University of Oxford, Oxford, United Kingdom, (4)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands

11:50 Discussant

## Panel Session
104 - Measuring and Predicting Quality of Life in Older Adults with Autism
10:30 AM - 12:00 PM - Yerba Buena 8

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

Although it is widely accepted that the quality of life (QoL) of individuals with ASD is adversely affected in adulthood, particularly towards the later end of the life span, systematic research in this area is scarce. We know little about how to measure the QoL of individuals on the autism spectrum effectively nor about whether the conceptual framework of typical QoL translates easily to the context of ASD. There are also gaps in our knowledge about the wider pattern of factors that are associated with differences in QoL or whether or not there are any autism-specific associations with QoL. The papers in this panel tackle conceptual and practical issues relating to the measurement of QoL in later-life ASD as well as reporting whether factors, such as prospective memory, that are known affect QoL in the typical population operate similarly in ASD. The work reported here represents an important step forward in our understanding of autism in later life

10:30 104.001 Successfully Engaging with Adults on the Autism Spectrum and Their Relatives about Longitudinal Cohort Research J. Parr[1], A. Petrou[2], J. E. Mackintosh[3], D. Mason[4], J. Hamilton[5], C. Michael[6], T. Goth[7], C. Mitchell[7], D. Garland[8], T. Finch[7], A. Le Couteur[9] and H. McConachie[4], (1)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (2) Newcastle University, Newcastle Upon Tyne, UNITED KINGDOM, (3)Newcastle University, Newcastle upon Tyne, UNITED KINGDOM, (4)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (5)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (6) Autism Age, Notrwich, UNITED KINGDOM, (7)Newcastle University, Newcastle-upon-Tyne, United Kingdom, (8)National Autistic Society, Newcastle upon Tyne, United Kingdom, (9)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM

10:50 104.002 Is the Whoqol-Bref Fit for Purpose in Measuring Quality of Life in Autistic Adults? H. McConachie[1], D. Mason[1], D. Garland[2], C. Wilson[3], A. Petrou[4], J. Rodgers[4] and J. Parr[4], (1)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)National Autistic Society, Newcastle upon Tyne, United Kingdom, (3)autism advocate, Sunderland, United Kingdom, (4) Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom

11:10 104.003 Do ASD Adults Become Happier When Older? H. M. Geurts, University of Amsterdam, Amsterdam, NETHERLANDS

11:30 104.004 Prospective Memory and Quality of Life in Older Adults with Autism. A. Roestorf[1], S. B. Gaigg[1], P. Howlin[2], C. Povey[3] and D. M. Bowler[1], (1)Psychology, City, University of London, London, United Kingdom, (2)King's College London, Institute of Psychiatry, London, UNITED KINGDOM, (3)The National Autistic Society, London, UNITED KINGDOM

## Panel Session
105 - Towards Elucidating Early Causal Mechanisms of ASD: New Directions for Prospective Longitudinal Studies
10:30 AM - 12:00 PM - Yerba Buena 9

*Session Chair:* E. Jones, *Birkbeck, University of London, London, UNITED KINGDOM*

*Discussant:* T. Falck-Ytter, *Dept of Psychology, Uppsala University, Uppsala, Sweden*

Prospective longitudinal studies of high-risk infants have provided a nuanced characterisation of behavioural symptom emergence in infancy and toddlerhood. However, our understanding of the causal neurodevelopmental mechanisms remains limited. We present four theoretically motivated approaches designed to provide insight into mechanisms underlying symptom onset. Our first speaker acquires brain structural, functional and biochemical data from fetuses, neonates and infants with and without risk factors for neurodevelopmental conditions. She will present preliminary evidence of differences in regional brain structure and function and maturation of the glutamate system in these risk groups. Second, we showcase recent work demonstrating that patterns of EEG observed in 3-month-old infants at high risk for developing autism and who are subsequently diagnosed with autism at age 3 differ from infants who do not develop autism. Third, we show that alterations in infants' pupillary light reflex – a basic measure putatively linked to the cholinergic system – may relate to later ASD outcomes. Finally, we will present recent work on altered experience-dependent specialisation of the social brain in early ASD, including new data linking variation to sensory processing atypicalities. Taken together, these talks identify new avenues for generating fundamental insights into the mechanisms that drive symptom onset in ASD.

10:30 105.001 Applying MRI to Map Typical and Potentially Atypical Brain Development at Fetal, Neonatal and Infant Time-Points G. M. McAlonan, Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

10:50 105.002 EEG Variability at 3 Months Correlates with Autism Outcomes A. R. Levin[1], H. M. O'Leary[1], A. S. Mendez Leal[2], A. Acosta[3], K. J. Varcin[4], J. M. Mayor Torres[5], H. Tager-Flusberg[6] and C. A. Nelson[7], (1)Neurology, Boston Children's Hospital, Boston, MA, (2)Harvard College, Cambridge, MA, (3)Harvard, Cambridge, MA, (4)Telethon Kids Institute, Perth, Australia, (5)Harvard Medical School, Cambridge, MA, (6)Psychological and Brain Sciences, Boston University, Boston, MA, (7)Boston Children's Hospital, Boston, MA

11:10 105.003 Enhanced Pupillary Light Reflex in Infancy Predicts Elevated Autistic Symptoms at Two Years of Age T. Falck-Ytter[1,2], P. Nyström[3], E. Nilsson Jobs[3], G. Gredebäck[3] and S. Bolte[1], (1) Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (2)Dept of Psychology, Uppsala University, Uppsala, Sweden, (3)Uppsala University, Uppsala, SWEDEN

11:30 105.004 Sensory Hypersensitivity Predicts Enhanced Attention Capture By Faces in the Early Development of ASD E. Jones[1], G. Dawson[2] and S. J. Webb[3], (1)Birkbeck, University of London, London, UNITED KINGDOM, (2)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (3)University of Washington, Seattle, WA

11:50 Discussant

## Poster Session
106 - Animal Models
12:00 PM - 1:40 PM - Golden Gate Ballroom

1 106.001 A TrkB Partial Agonist Rescues Autistic-like Behaviors in Adult Mice Prenatally Exposed to Valproic Acid M. Fahnestock[1], C. Nicolini[1], V. Aksenov[2], E. Rosa[1], B. Michalski[1], C. D. Rollo[2], J. A. Foster[1] and F. M. Longo[3], (1)Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada, (2) Biology, McMaster University, Hamilton, ON, Canada, (3)Neurology and Neurological Sciences, Stanford University, Stanford, CA

2 106.002 Alteration in EEG and Auditory Evoked Potential in a Mouse Model of Tuberous Sclerosis Complex M. Modi[1], S. Dhamne[2], A. Rotenberg[2] and M. Sahin[2], (1)Pfizer, Inc., Boston, MA, (2)Neurology, Boston Children's Hospital, Boston, MA

3 106.003 An Autism Mouse Model Exhibits Limbic System Alterations That Enhance Susceptibility to Stress J. W. Lunden[1], C. C. Peng[2], V. R. Mirabella[3], S. Prem[4] and E. DiCicco-Bloom[5], (1)SPH 354, Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, (2) Rutgers Robert Wood Johnson Medical School, Monmouth Junction, NJ, (3)Neuroscience and Cell Biology, Rutgers-RWJMS/Princeton Training Program, Piscataway, NJ, (4)Robert Wood Johnson Medical School, Piscataway, NJ, (5)Rutgers Robert Wood Johnson Medical School, Piscataway, NJ

4 106.004 Analysis of Phenotypes in Rodent Models Based on High-Risk ASD Genetic and Environmental Factors I. Das, M. A. Estevez, A. A. Sarkar, R. S. Lin, W. Pereanu and S. B. Basu, Mindspec, Inc., McLean, VA

5 106.005 Autism-Relevant Anatomic Changes in Brain Structure in the Antigen-Driven Animal Model of Maternal Autoantibody Related Autism K. L. Jones[1], J. Ellegood[2], J. P. Lerch[3] and J. Van de Water[1], (1) University of California at Davis MIND Institute, Davis, CA, (2)Hospital for Sick Children, Toronto, ON, CANADA, (3)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada

6 106.006 Behavior Phenotyping of a Mouse Model of Phelan Mcdermid Syndrome with a Full Deletion of Shank3 Gene E. Drapeau[1], J. D. Buxbaum[2] and M. Riad[1], (1)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY

7 106.007 Behavioral Characterization of SLIT3 Knock-out Mice: SLIT3 Implications in ASD S. M. Park, S. Huang and C. Plachez, Hussman Institute for Autism, Baltimore, MD

8 106.008 CADM1 Mutation Knock-in Mice As Mice Model of ASD Showing Abnormal Excitatory-Inhibitory Synaptic Balance K. Kojima[1], E. F. Jimbo[2], T. Yamagata[2], M. Momoi[3] and T. Mom[4], (1)Department of Pediatrics, Jichi Medical University, Shimotsuke-shi, Tochigi, Japan, (2) Jichi Medical University, Shimotsuke, Japan, (3)International University of Health and Welfare, Ohtawara, Tochigi, Japan, (4)Department of Neurophysiology, Tokyo Medical University, Tokyo, Japan

9 106.009 CASPR2 Deficiency in Juvenile Rats Recapitulates the Broad Phenotypic Spectrum of CNTNAP2-Related Disorders S. Veeraragavan, S. Soriano, C. S. Ward, D. R. Connolly, P. Albelda de la Haza, A. J. Liang, L. A. Yuva, R. Paylor and R. C. Samaco, Molecular and Human Genetics, Baylor College of Medicine, Houston, TX

10 106.010 Cdh11 Deficient Mice Exhibit Autism-like Behavioral Abnormalities X. Yuan, C. Wang and Y. Wang, Hussman Institute for Autism, Baltimore, MD

11 106.011 Cerebellar Networks Are Altered in Autism - Examined with Mouse Models J. Ellegood[1], Y. Yee[1], R. M. Henkelman[1], P. Tsai[2] and J. P. Lerch[1], (1)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (2)University of Texas Southwestern Medical Center, Dallas, TX

12 106.012 Cerebrospinal Fluid Arginine Vasopressin Is a Predictive Biomarker of Social Impairments in Male Rhesus Monkeys O. Oztan[1], J. P. Garner[2], V. Sclafani[1,3], J. P. Capitanio[4,5] and K. J. Parker[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)Comparative Medicine, Stanford University, Stanford, CA, (3)Winnicott Research Unit, University of Reading, Reading, United Kingdom, (4) Department of Psychology, University of California, Davis, Davis, CA, (5) California National Primate Research Center, University of California, Davis, Davis, CA

13 106.013 Cntnap2 -/- Autism Model Mice Display Deficits in Tonic and Phasic Inhibition in Primary Visual Cortex M. Bridi, S. M. Park and S. Huang, Hussman Institute for Autism, Baltimore, MD

14 106.014 Development of Behavioral Assays to Assess ASD-like Behaviors in a Drosophila Model R. L. Shafer[1], A. Shekar[1], J. Aguilar[1], A. Galli[1] and J. W. Bodfish[2], (1)Vanderbilt University, Nashville, TN, (2) Vanderbilt University School of Medicine, Nashville, TN

15 106.015 Developmental Control of Cortical Gabaergic Interneuron Number Via Pten Signaling J. Sejourne, O. S. Cohen and D. T. Page, The Scripps Research Institute, Jupiter, FL

16 106.016 Developmental and Juvenile Ultrasonic Vocalizations in the Shank3 Mutant Rat Model of Phelan-Mcdermid Syndrome and Autism Spectrum Disorder E. L. Berg[1], M. Wöhr[2], M. C. Pride[1], J. K. Rivera[1], M. Careaga[1], H. Harony-Nicolas[3], J. D. Buxbaum[3] and J. L. Silverman[1], (1) MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis School of Medicine, Sacramento, CA, (2)Experimental and Physiological Psychology, Philipps-University of Marburg, Marburg, GERMANY, (3)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY

17 106.017 Efficacy of a Multimodal Versus a Selective Serotonin Reuptake Inhibitor to Enhance Sociability and Reduce Marble Burying in BTBR Mice N. A. Witt[1,2], B. Lee[1], A. Pehrson[3], C. Sanchez[3] and G. G. Gould[1], (1)University of Texas Health Science Center at San Antonio, San Antonio, TX, (2)University of Texas at San Antonio, San Antonio, TX, (3)Lundbeck Research USA, Paramus, NJ

18 106.018 Fronto-Striatal Anatomy, Dependent-Behavior, and Neuronal Activity in a Rat Model of Fragile X Syndrome C. Golden[1], S. Sonar[2], H. Harony-Nicolas[3] and J. D. Buxbaum[3], (1)2158370439, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY

19 106.019 Functionalization of ASD Variants of PTEN in C. Elegans T. A. McDiarmid[1], P. Pavlidis[2], D. Allan[1], T. O'Connor[1], S. Bamji[1], C. Loewen[1], K. Haas[1] and C. Rankin[1], (1)University of British Columbia, Vancouver, BC, Canada, (2)MSL and Department of Psychiatry, University of British Columbia, Vancouver, BC, Canada

20 106.020 Functionalization of ASD Variants of PTEN in Rat and Xenopus R. Dingwal[1], M. Edwards[1], K. Post[2], P. Pavlidis[3], T. O'Connor[1], C. Rankin[1], D. Allan[1], C. Loewen[1], S. Bamji[1] and K. Haas[1], (1)University of British Columbia, Vancouver, BC, Canada, (2)University of British Columbia, Vancouver, BC, CANADA, (3)MSL and Department of Psychiatry, University of British Columbia, Vancouver, BC, Canada

21 106.021 Functionalization of ASD Variants of PTEN in Yeast and Fly K. Post[1], K. Haas[2], B. Young[2], P. Ganguly[3], P. Pavlidis[4], C. Rankin[2], S. Bamji[2], T. O'Connor[2], D. Allan[2] and C. Loewen[2], (1)University of British Columbia, Vancouver, BC, CANADA, (2)University of British Columbia, Vancouver, BC, Canada, (3)Department of Cellular and Physiological Sciences, University of British Columbia, Vancouver, BC, Canada, (4)MSL and Department of Psychiatry, University of British Columbia, Vancouver, BC, Canada

22 106.022 Integrity and Functionality of the Hypothalamic Oxytocin System and the Effect of Oxytocin Treatment in Two Rat Models for Autism H. Harony-Nicolas[1], M. Eliava[2], L. Koro[3], M. Riad[3], C. Golden[4], S. Wagner[5], V. Grinevich[6] and J. D. Buxbaum[1], (1)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (2)German Cancer Research Center DKFZ, Heidelberg, Germany, (3)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (4)Icahn School of Medicine at Mount Sinai, New York, NY, (5)Neuroscience, University of Haifa, Haifa, Israel, (6)University of Heidelberg, Heidelberg, Germany, Heidelberg, Germany

23 106.023 Learning Recapitulates Development at the Epigenetic Level Highlighting Regulatory Regions Relevant for Autism and Intellectual Disability J. Koberstein[1], S. Poplawski[2], T. Abel[2] and L. Peixoto[3], (1)Washington State University, Spokane, WA, (2)University of Pennsylvania, Philadelphia, PA, (3)Elson S Floyd College of Medicine, Washington State University, Spokane, WA

24 106.024 Longitudinal Behavioural Study of Shank3 KO Mice Combined with Rnaseq Analyses Reveals New Candidate Modifier Genes for Autism A. Ferhat[1], A. Biton[2], T. Bourgeron[3] and E. Ey[4], (1) Neuroscience, Institut Pasteur, Paris, France, (2)Institut Pasteur, Paris, France, (3)Université Paris Diderot, Paris, France, (4)Neuroscience, Institut Pasteur, Paris, FRANCE

25 106.025 Loss of KCTD13 Decreases Hippocampal Synaptic Transmission Via the Small Gtpase RhoA C. Ochoa Escamilla[1], I. Filonova[2], A. Walker[3], Z. Xuan[3], A. J. Eisch[4], J. Ellegood[5], J. P. Lerch[6], H. E. Speed[4] and C. M. Powell[7], (1)Neurology and Neurotherapeutics, UT Southwestern, Dallas, TX, (2)UT Southwestern, Bedford, TX, (3) UT Southwestern, Dallas, TX, (4)University of Texas Southwestern Medical Center, Dallas, TX, (5)Hospital for Sick Children, Toronto, ON, CANADA, (6)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (7)Neurology & Neurotherapeutics and Psychiatry, The University of Texas Southwestern Medical Center, Dallas, TX

26 106.026 Low Empathy-like Behavior in MICE Associates with Impaired Sociability, Emotional Memory, Physiological Stress Reactivity, and Variations in Neurobiological Regulations G. Laviola[1], V. Carito[2], F. Zoratto[3], M. Fiore[4] and S. Macrì[5], (1)Istituto Superiore di Sanità, Roma, Italy, (2)Neurobiology, National Research Council, Rome, Italy, (3)BCN, Istituto Superiore Sanità, Rome, Italy, (4)Neurobiology, Rome, Italy, (5) Istituto Superiore Sanità, Rome, Italy

27 106.027 Maternal Allergic Asthma during Gestation Leads to Elevated Inflammatory Cytokines in the Fetal Brain H. K. Hughes[1], D. Rose[1], H. Yang[2], M. Careaga[3], J. Schwartzer[4] and P. Ashwood[5], (1) UC Davis M.I.N.D. Institute, Sacramento, CA, (2)UCD MIND institute, Sacramento, CA, (3)UC Davis/MIND Institute, Sacramento, CA, (4)Mount Holyoke College, South Hadley, MA, (5)UC Davis, Sacramento, CA

28 106.028 Placental Group B Streptococcus Infection: Sex Specific Inflammatory Response and Autistic-like Traits in Male Offspring M. J. Allard[1], C. Guiraut[1], M. Descoteaux[2], L. Tremblay[2], M. Lepage[2], L. C. Fortier[3] and G. Sébire[1], (1)McGill University, Montreal, QC, Canada, (2)Université de Sherbrooke, Sherbrooke, QC, Canada, (3)Microbiology and infectious diseases, Université de Sherbrooke, Sherbrooke, QC, Canada

29 106.029 Polygenic Contribution of the Transcription Factors Gtf2i and Gtf2ird1 of the William's Syndrome Critical Region to Produce Disease Relevant Phenotypes N. D. Kopp and J. Dougherty, Genetics, Washington University School of Medicine, St. Louis, MO

30 106.030 Preliminary Characterization of Dosage Effects of UBE3A on Cognitive and Motor Phenotypes in Mouse Models N. Buscher[1], N. A. Copping[1], M. C. Pride[1], S. V. Dindot[2] and J. L. Silverman[3], (1)UC Davis, Sacramento, CA, (2)Texas A&M University, College Station, TX, (3)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis School of Medicine, Sacramento, CA

31 106.031 Preliminary Seizure Susceptibility and Threshold Characterization in Mouse Models Relevant to Angelman Syndrome and Chromosome 15q11.2-13 Duplications N. A. Copping[1], N. Buscher[1], J. A. Foster[2], J. P. Lerch[3], J. Ellegood[4], D. Zolkowska[5], S. V. Dindot[6] and J. L. Silverman[7], (1)UC Davis, Sacramento, CA, (2)Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada, (3)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (4)Hospital for Sick Children, Toronto, ON, CANADA, (5) University of California, Davis, Sacramento, CA, (6)Texas A&M University, College Station, TX, (7)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis School of Medicine, Sacramento, CA

32 106.032 SHANK3 Deletion and Related Phenotypes in Chinese Children with Autism and shank3-KO Zebrafish Display Autistic-like Behaviours C. Liu[1], C. Hu[2], B. Zhou[2] and X. Xu[2], (1)Division of Child Health Care, Children's Hospital of Fudan University, Shanghai, China, (2) Children's Hospital of Fudan University, Shanghai, China

33 106.033 Social and Non-Social Reward in Mouse Models of Autism C. Weichselbaum[1], S. E. Maloney[2], K. B. McCullough[2] and J. Dougherty[2], (1)Psychiatry and Genetics, Washington University School of Medicine, St. Louis, MO, (2)Genetics, Washington University School of Medicine, St. Louis, MO

34 106.034 Sulforaphane Improved Social Communication Impairment with Upregulation of Gabaergic Pathway in Cerebral Cortex of Valproic Acid Induced Autism K. F. Chau[1], W. Yang[2], A. Y. T. Choi[3] and C. W. Chan[4], (1)The Chinese University of Hong Kong, Hong Kong, Hong Kong, (2)The Chinese University of Hong Kong, Hong Kong, Hong Kong, (3)School of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong, (4)School of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong

35 106.035 The Association of ASD-like Behavior, Inflammatory Signaling, and Oxidative Stress Cascades in Semaphorin 3F KO Mice G. Barnes, E. Gozal and R. Jagadapillai, University of Louisville School of Medicine, Louisville, KY

36 106.036 The Effects of Maternal High Fat Diet on Behavioral Measures in C57BL/6J and BTBR T+ Itpr3tf/J Offspring. K. K. Chadman[1] and L. A. Leone[2], (1)New York State Institute for Basic Research, Staten Island, NY, (2)Institute of Basic Research in Developmental Disabilities, Staten Island, NY

37 106.037 Toll-like Receptor-Selective Placental Vulnerability, Fetal Brain Impairment, and Post-Natal Behavioral Deficits in Mouse Models of Neurodevelopmental Disorder A. R. Narayan[1], M. L. Kielhold[1], B. A. Babineau[1], H. M. Moon[1], K. M. Correa[1], V. Saravanapandian[1], G. Subramanyam[1], T. Cisneros[2], P. A. Carpentier[1], M. Rivera[1] and T. D. Palmer[1], (1)Neurosurgery, Stanford University, Palo Alto, CA, (2) Immunology, Stanford University, Palo Alto, CA

## Poster Session
107 - Communication and Language
12:00 PM - 1:40 PM - Golden Gate Ballroom

38 107.038 A Longitudinal Study of Gestures Used By Mothers of Infant Siblings of Children with Autism Spectrum Disorder P. Shah[1], A. B. Choi[2], M. Rowe[3], C. A. Nelson[4] and H. Tager-Flusberg[5], (1)Boston University, Boston, MA, (2)Harvard University, Cambridge, MA, (3)Harvard Graduate School of Education, Cambridge, MA, (4)Boston Children's Hospital, Boston, MA, (5)Psychological and Brain Sciences, Boston University, Boston, MA

39 107.039 A New Approach for Eliciting Expressive Language Samples: Elsa M. D. Barokova[1], S. Hassan[1], C. Lee[2], M. Xu[3] and H. Tager-Flusberg[4], (1)Boston University, Boston, MA, (2)Psychological and Brian Sciences, Boston University, Boston, MA, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Psychological and Brain Sciences, Boston University, Boston, MA

40 107.040 A Peer-Mediated Intervention for Preschoolers with Autism Using AAC: Effects on Presymbolic and Symbolic Communication K. Thiemann-Bourque, Juniper Gardens Children's Project, Kansas City, KS

41 107.041 Acquisition of Nouns in Young Children with ASD: Insight into Learning Processes from Item Analyses S. T. Kover[1], D. A. Fein[2] and L. R. Naigles[3], (1)University of Washington, Seattle, WA, (2)University of Connecticut, Storrs, CT, (3)Psychological Sciences, University of Connecticut, Storrs, CT

42 107.042 Adults with ASD More Rigid When Establishing Common Ground during a Referential Communication Task M. Conca[1], J. Beriont[1], A. de Marchena[2], A. Bagdasarov[3], B. Maddox[4], E. Ferguson[5], A. A. Pallathra[6], N. Minyanou[7], L. Bateman[5], Z. M. Dravis[8], A. T. Pomykacz[9], K. Bartley[10], E. S. Brodkin[6], J. Pandey[1], J. Parish-Morris[4], R. T. Schultz[1] and E. S. Kim[1], (1)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research/CHOP, Philadelphia, PA, (6) Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (7)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (8)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (9)Children's Hospital of Philadelphia-Center for Autism Research, Philadelphia, PA, (10)Center for Autism Research, Malvern, PA

43 107.043 Adults with ASD Show Strengths and Weaknesses in Conversation during a Referential Communication Task Z. M. Dravis[1], A. Bagdasarov[2], E. S. Kim[3], Y. Zhang[4], M. Cola[4], B. Maddox[5], E. Ferguson[6], L. Adeoye[2], F. Fergusson[2], A. A. Pallathra[7], N. Minyanou[8], L. Bateman[6], A. T. Pomykacz[9], K. Bartley[10], E. S. Brodkin[7], J. Pandey[3], J. Parish-Morris[5], R. T. Schultz[3] and A. de Marchena[4,11], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)The Children's Hospital of Philadelphia, Philadelphia, PA, (5) Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Center for Autism Research/CHOP, Philadelphia, PA, (7)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (8)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (10)Center for Autism Research, Malvern, PA, (11) University of the Sciences, Philadelphia, PA

44 107.044 Anxiety, Language, and Heart Rate Variability in Autism Spectrum Disorders A. E. Muskett[1], D. Swain[1], M. A. Patriquin[2] and A. Scarpa[1], (1)Virginia Tech, Blacksburg, VA, (2)University of Alabama, Birmingham, Birmingham, AL

45 107.045 Cardiac Autonomic Function Predicts Pragmatic Language Features of the Broad Autism Phenotype in Mothers of Children with ASD J. Klusek[1] and J. Roberts[2], (1)Communication Sciences and Disorders, University of South Carolina, Columbia, SC, (2)Department of Psychology, University of South Carolina, Columbia, SC

46 107.046 Changes in the Communicative Style of Mothers of Toddlers with ASD Are a Response to the Relatively Low Frequency of Communication in Their Children from 2 to 3 Years of Age G. Pasco[1], T. Charman[2], C. H. Cheung[3], M. H. Johnson[4] and T. B. Team[5], (1)16 De Crespigny Park, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3) Psychology, Institute of Psychiatry, Psychology and Neuroscience, London, UNITED KINGDOM, (4)Centre for Brain and Cognitive Development, Birkbeck University of London, London, United Kingdom, (5)Birkbeck College London, London, United Kingdom

47 107.047 Child Reciprocal Vocal Contingency Measure Using Automated Vocal Analysis with Children with Autism Spectrum Disorder J. McDaniel[1], A. L. Harbison[1], P. J. Yoder[1], A. Estes[2] and S. J. Rogers[3], (1)Vanderbilt University, Nashville, TN, (2)University of Washington Autism Center, Seattle, WA, (3)University of California, Davis. MIND Institute, Sacramento, CA

48 107.048 Children with Autism Spectrum Disorder Can Demonstrate Consistent Word Learning: Expressive Language Measures of Fast- and Slow-Mapping J. Bang[1] and A. Nadig[2], (1)McGill University, Montreal, QC, Canada, (2)McGill University, Montreal, QC, CANADA

49 107.049 Coaching Parents on Effective Communicative Access for Individuals with Autism through the Use of Ipads F. T. Orsati[1], J. P. Hussman[2], A. Smith[1] and C. L. Woodfield[1], (1)Hussman Institute for Autism, Catonsville, MD, (2)Hussman Institute for Autism, Inc., Catonsville, MD

50 107.050 Communicative Functions of Co-Speech Gestures during Conversation in Adults with ASD Y. Zhang[1], A. Bagdasarov[2], E. S. Kim[3], Z. M. Dravis[4], M. Cola[1], B. Maddox[5], E. Ferguson[6], L. Adeoye[2], F. Fergusson[2], A. A. Pallathra[7], N. Minyanou[8], L. Bateman[6], A. T. Pomykacz[9], K. Bartley[10], E. S. Brodkin[7], J. Pandey[3], J. Parish-Morris[5], R. T. Schultz[3] and A. de Marchena[1,11], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5) Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Center for Autism Research/CHOP, Philadelphia, PA, (7)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (8)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (10)Center for Autism Research, Malvern, PA, (11) University of the Sciences, Philadelphia, PA

51 107.051 Conversational Dynamics in a Longitudinal Corpus of Caregiver-Child Interactions E. Weed[1], R. Fusaroli[2], J. Tranbjerg[1], D. A. Fein[3] and L. R. Naigles[3], (1)Aarhus University, Aarhus, Denmark, (2)Aarhus University, Aarhus, DENMARK, (3)Psychological Sciences, University of Connecticut, Storrs, CT

52 ▸ 107.052 Correlates of EARLY Reading Skills in Children with ASD R. Bourourou[1], N. Gaddour[2], S. Bouslah[1] and L. Gaha[3], (1) Psychiatry, University of Monastir, Monastir, Tunisia, (2)University Hospital F. Bourguiba, Monastir, TUNISIA, (3)University of Monastir, Monastir, TUNISIA

53 107.053 Developing an Observational Measure of the Flexible Use of Pre-Linguistic Vocalizations in Preverbal Children with Autism K. D. Slaboch[1], T. Woynaroski[2], P. J. Yoder[3] and J. W. Bodfish[4], (1) Vanderbilt University, Franklin, TN, (2)Hearing and Speech Sciences, Vanderbilt University Medical Center, Thompsons Stn, TN, (3)Vanderbilt University, Nashville, TN, (4)Vanderbilt University School of Medicine, Nashville, TN

54 107.054 Developmental Social Pragmatic Parent Coaching Intervention Increases Language-Promoting Utterances in Parents of Children with ASD. A. Binns[1], M. K. Wang[2], D. Casenhiser[3], S. Shanker[4,5] and J. Oram Cardy[2], (1)Western University, London, ON, CANADA, (2) Western University, London, ON, Canada, (3)University of Tennessee, Knoxville, TN, (4)Psychology, York University, Toronto, ON, CANADA, (5) The MEHRIT Centre, Peterborough, Canada

55 107.055 Discourse Profiles in Autism Spectrum Disorder: A Family Study of Prosody S. Patel[1], K. Nayar[1], G. E. Martin[2], M. Lee[1], S. Crawford[1], C. LaValle[1], J. J. Diehl[3] and M. Losh[1], (1)Northwestern University, Evanston, IL, (2)St. John's University, Staten Island, NY, (3) LOGAN Community Resources, Inc. University of Notre Dame, South Bend, IN

56 ▸ 107.056 Dyadic Interaction Between Bilingual Parents and Their Young Children with Autism Spectrum Disorders K. Hudry[1], L. Rumney[1], N. Pitt[1], J. Barbaro[1] and G. Vivanti[2], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)AJ Drexel Autism Institute, Philadelphia, PA

57 107.057 Examining Expressive Language Benchmarks in Young Minimally Verbal Children J. K. Heidlage[1], E. Fuller[2], A. Kaiser[2] and L. H. Hampton[2], (1)Vanderbilt, Nashville, TN, (2)Vanderbilt University, Nashville, TN

58 107.058 Examining Spoken Language in Young Children with ASD Following a 12-Week Parent-Implemented Intervention K. A. Resua[1], A. B. Barber[1], H. Noble[2], C. H. Cook[1] and B. Ingersoll[3], (1)University of Alabama, Tuscaloosa, AL, (2)Crimson Center, San Diego, CA, (3) Michigan State University, East Lansing, MI

59 107.059 Expressive Language and Social Functioning in Children with Specific Language Impairment Versus High Functioning Autism R. Ng[1], T. T. Brown[2,3], U. Bellugi[4], E. Halgren[2,3] and D. Trauner[5], (1) Institute of Child Development, University of Minnesota Twin Cities, Minneapolis, MN, (2)Center for Multimodal Imaging and Genomics, University of California San Diego, San Diego, CA, (3)Department of Radiology, University of California, San Diego School of Medicine, San Diego, CA, (4)THE SALK INSTITUTE, LA JOLLA, CA, (5)Department of Neurosciences, University of California, San Diego School of Medicine, San Diego, CA

60 107.060 Features of Co-Speech Hand Gestures Help Predict Diagnostic Group Membership M. Cola[1], E. S. Kim[2], Y. Zhang[1], A. Bagdasarov[3], Z. M. Dravis[4], B. Maddox[5], E. Ferguson[6], L. Adeoye[3], F. Fergusson[3], A. A. Pallathra[7], N. Minyanou[8], L. Bateman[6], A. T. Pomykacz[9], K. Bartley[10], E. S. Brodkin[7], J. Pandey[2], J. Parish-Morris[5], R. T. Schultz[2] and A. de Marchena[1,11], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Center for Autism Research/CHOP, Philadelphia, PA, (7)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (8)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Children's Hospital of Philadelphia-Center for Autism Research, Philadelphia, PA, (10)Center for Autism Research, Malvern, PA, (11)University of the Sciences, Philadelphia, PA

61 107.061 Gesture Comprehension (GeCo) Measure Reveals Deficits in Gesture Processing in Adults with ASD A. R. Canfield, B. Castelluccio, C. Emmett and I. M. Eigsti, Department of Psychological Sciences, University of Connecticut, Storrs, CT

62 107.062 Gesture Development and Autism Severity in High-Risk Infants L. Rague[1], K. E. Caravella[1], B. Tonnsen[2] and J. Roberts[2], (1) University of South Carolina, Columbia, SC, (2)Department of Psychology, University of South Carolina, Columbia, SC

63 107.063 Gesturing during Conversation and Free Play in Children with ASD S. Tal, I. Gordon, S. Fridenson-Hayo and O. Golan, Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel

64 107.064 Growth in Narrative Retelling Abilities of Higher-Functioning Children with ASD: Associations with ASD Symptomatology, Verbal Ability, and Reading Comprehension N. S. McIntyre[1], R. Grimm[1], L. E. Swain-Lerro[2], M. C. Zajic[3], J. McCauley[4], H. K. Schiltz[5], T. Oswald[6] and P. C. Mundy[7], (1)University of California at Davis, Davis, CA, (2) UC Davis, Santa Rosa, CA, (3)University of California at Davis MIND Institute, Davis, CA, (4)UC Davis MIND Institute, Sacramento, CA, (5) Marquette University, Milwaukee, WI, (6)University of California at Davis MIND Institute, Sacramento, CA, (7)University of California at Davis, Sacramento, CA

65 107.065 High-Resolution Chromosomal Microarray Analysis in Children with Speech & Language Delay: Genetic Findings & Clinical Relevance A. Peiffer[1,2], H. Twede[2], R. Vanzo[2], K. S. Ho[1,2] and E. R. Wassman[2], (1)Pediatrics, University of Utah, Salt Lake City, UT, (2) Lineagen, Inc., Salt Lake City, UT

66 107.066 Higher Maternal Autism Spectrum Quotient Score Predicts Weaker Tendency to See Pragmatic Impairments As a Problem K. Hanabusa[1], M. Oi[2] and Y. Yoshimura[3], (1)United Graduate School of Child Development, Kanazawa, Japan, (2)Kanazawa University, United Graduate School of Child Dev., Kanazawa, JAPAN, (3)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan

67 107.067 Human References: What the Words That Adolescents with ASD Use Reveal about the ASD Phenotype A. R. Neal-Beevers[1], B. G. Davidson[2], L. Sperle[3], D. Ikejimba[4] and J. W. Pennebaker[4], (1)Stop E9000, University of Texas at Austin, Austin, TX, (2)Pediatrics, University of Miami Miller School of Medicine, Miami, FL, (3)University of Pittsburgh, Pittsburgh, PA, (4)Psychology, University of Texas at Austin, Austin, TX

68 107.068 Identifying Endophenotypes in Autism Spectrum Disorder and Fragile X Syndrome: A Multi-Method Approach K. Nayar[1], L. Bush[2], M. Lee[3], G. E. Martin[4], S. Crawford[3] and M. Losh[3], (1) Northwestern University, Chicago, IL, (2)Northwestern Feinberg School of Medicine, Chicago, IL, (3)Northwestern University, Evanston, IL, (4)St. John's University, Staten Island, NY

69 107.069 Identifying Factors That Predict, Moderate and Mediate Alternative and Augmentative Communication (AAC) Outcomes for Preschool Children with Autism S. B. Sievers[1], D. Trembath[2] and M. F. Westerveld[3], (1)Allied Health, Griffith University, Gold Coast, Australia, (2)Menzies Health Institute, Griffith University, AUSTRALIA, (3)School of Allied Health Sciences / Griffith Institute for Educational Research, Griffith University, Gold Coast, Australia

70 107.070 Illuminating the Role of Association and Spatio-Temporal Location for Word Learning in ASD C. Field[1], C. Lewis[2] and M. L. Allen[3], (1)Preston, University of Central Lancashire, Lancashire, United Kingdom, (2)Lancaster University, Lancashire, United Kingdom, (3)Lancaster University, Lancaster, UNITED KINGDOM

71 107.071 Imagining Counterfactual Worlds in Autism Spectrum Disorder J. S. Black, D. M. Williams and H. Ferguson, School of Psychology, University of Kent, Canterbury, United Kingdom

72 107.072 Impaired Resolution of Ambiguous Homographs in High-Functioning Individuals with Autism: An ERP Study E. L. Coderre[1], M. Chernenok[1,2], T. Brothers[3], B. Gordon[1,4] and K. Ledoux[1], (1)Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, (2) Department of Human Ecology, University of California, Davis, Davis, CA, (3)University of California Davis, Davis, CA, (4)Cognitive Science, Johns Hopkins University, Baltimore, MD

73 107.073 Individuals with 16p11.2 Deletions Show Aberrant Feedback Processing during Speaking C. Demopoulos[1], H. Kothare[1], D. Mizuiri[1], J. Henderson-Sabes[2], E. Sherr[3], B. Fregeau[4], J. Tiernagel[5], J. F. Houde[6] and S. Nagarajan[1], (1)Radiology & Biomedical Imaging, UCSF, San Francisco, CA, (2)Otolaryngology-Head and Neck Surgery, UCSF, San Francisco, CA, (3)Neurology, UCSF, San Francisco, CA, (4)Neurology, UCSF, SF, CA, (5)Simons Foundation Autism Research Initiative, New York, NY, (6)University of California, San Francisco, San Francisco, CA

74 107.074 Investigating Relationships Between Linguistic and Pictorial Symbolic Domains in Children with Autism Spectrum Disorder and Typical Development C. Hartley[1], A. Trainer[2] and M. L. L. Allen[3], (1) Psychology, Lancaster University, Lancaster, UNITED KINGDOM, (2) Northumbria Healthcare NHS Foundation Trust, North Tyneside, United Kingdom, (3)Lancaster University, Lancaster, UNITED KINGDOM

75 107.075 Is Autism Left-Handed? Exploring Abnormal Lateralization in Handedness and Language Among Individuals with ASD. A. Diaz-Stransky[1], M. J. Rolison[2], K. A. McNaughton[2], T. C. Day[3], B. Lewis[4], K. Ellison[5], E. Jarzabek[2], A. Naples[6], J. Wolf[7] and J. McPartland[2], (1)Psychiatry, Yale Child Study Center, New Haven, CT, (2) Child Study Center, Yale School of Medicine, New Haven, CT, (3)Yale Child Study Center, Yale University, New Haven, CT, (4)Yale School of Medicine, Darien, CT, (5)Yale University, New Haven, CT, (6)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (7) Yale Child Study Center, New Haven, CT

76 107.076 Joint Attention at 22 Months As a Predictor of Communication Skills in Preschool S. W. Nowell[1], L. R. Watson[2], E. Crais[2], S. Griffin[3] and L. Turner-Brown[4], (1)University of North Carolina - Chapel Hill, Chapel Hill, NC, (2)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Allied Health Sciences, Division of Speech and Hearing Sciences, The University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

77 ▸ 107.077 Language Acquisition and Communicative Development in Mandarin-Learning Preschool Children with ASD: Assessment Via the Pcdi-Infant Form F. Xie and Y. E. Su, School of Foreign Languages, Central South University, Changsha, Hunan, CHINA

78 107.078 Language Assessment in Minimally Verbal Children with ASD A. Holbrook[1], C. K. Toolan[2], S. Y. Shire[1], C. DiStefano[1], R. Landa[3], T. Smith[4], A. Kaiser[5] and C. Kasari[2], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)Kennedy Krieger Institute, Baltimore, MD, (4) University of Rochester Medical Center, Rochester, NY, (5)Vanderbilt University, Nashville, TN

79 ▸ 107.079 Language Development in Dual Language Learners with Autism Spectrum Disorder and Other Developmental Delays . G. Dai[1], J. D. Burke[2], L. R. Naigles[2], I. M. Eigsti[3] and D. A. Fein[2], (1) University of Connecticut, Storrs, CT, (2)Psychological Sciences, University of Connecticut, Storrs, CT, (3)Department of Psychological Sciences, University of Connecticut, Storrs, CT

80 107.080 Language Outcomes for Children on the Autism Spectrum with Differing Language Development Profiles: What Is the Role of Nviq? P. Hickey[1], S. M. Attar[1], A. Walsh[1] and E. Hanson[2], (1)Boston Children's Hospital, Boston, MA, (2)Children's Hospital Boston, Boston, MA

81 107.081 Language Subdomains Among Young Children with Autism Spectrum Disorder: Associations with Social Skills S. Levinson[1], N. A. Hoch[2], J. Blacher[3], A. S. Carter[2] and A. Eisenhower[2], (1)Psychology, University of Massachusetts Boston, Brookline, MA, (2)University of Massachusetts Boston, Boston, MA, (3)University of California - Riverside, Riverside, CA

82 107.082 Leveraging AAC Usage Patterns for Diagnostic Classification: A Proof of Concept B. Li[1], A. Ataybi[2], Y. A. Ahn[3], L. Boccanfuso[4], J. Snider[5] and F. Shic[6], (1)Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA, (3) Seattle Children's, Seattle, WA, (4)Yale University, New Haven, CT, (5) Yale Child Study Center, New Haven, CT, (6)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA

83 107.083 Linguistic Camouflage in Girls with Autism Spectrum Disorder L. Bateman[1], M. Liberman[2], C. Cieri[3], J. D. Herrington[4], B. E. Yerys[1], E. Ferguson[1], J. Pandey[5], R. T. Schultz[5] and J. Parish-Morris[6], (1)The Center for Autism Research/CHOP, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania Linguistic Data Consortium, Philadelphia, PA, (4)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

84 107.084 Measuring Small but Important Changes in Minimally Verbal Children with ASD N. C. Brady[1], K. K. Fleming[2], R. Swinburne Romine[3], A. Holbrook[4] and C. Kasari[5], (1)University of Kansas, Lawrence, KS, (2)Life Span Institute, University of Kansas, Lawrence, KS, (3) Lifespan Institute, University of Kansas, Lawrence, KS, (4)University of California Los Angeles, Los Angeles, CA, (5)University of California, Los Angeles, Los Angeles, CA

85 107.085 Meeting Language Milestones May Not be Associated with Better Functioning at School Age If ASD Is Not Detected Early A. Goodwin, N. L. Matthews and C. J. Smith, Southwest Autism Research & Resource Center, Phoenix, AZ

86 107.086 Narrative Generation in Children with ASD: The Effects of a Reading Comprehension Intervention on Mental State Use A. R. Henry[1], N. S. McIntyre[1], M. C. Zajic[2], E. J. Solari[3] and P. C. Mundy[4], (1)University of California at Davis, Davis, CA, (2)University of California at Davis MIND Institute, Davis, CA, (3)University of California, Davis, Davis, CA, (4)University of California at Davis, Sacramento, CA

87 107.087 Nonshared Environmental Influences on Language Development: A Monozygotic Twin Differences Study M. Aparicio Betancourt[1] and L. DeThorne[2], (1)Neuroscience Program, University of Illinois at Urbana-Champaign, Champaign, IL, (2)Speech & Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL

88 107.088 Objective Acoustic-Prosodic and Turn-Taking Measures in Interactions with Children with Neurodevelopmental Disorders D. K. Bone[1], S. L. Bishop[2], S. Lee[1] and S. Narayanan[1], (1)University of Southern California, Los Angeles, CA, (2)Psychiatry, University of California San Francisco, San Francisco, CA

89 107.089 Optimizing Thin-Slice Observations for Toddlers with Autism L. H. Hampton[1,2] and M. Roberts[2], (1)Vanderbilt University, Nashville, TN, (2)Northwestern University, Evanston, IL

90 107.090 Predictors of Speech Improvement in Minimally Verbal Children with Autism Spectrum Disorder K. V. Chenausky[1], A. Norton[1] and G. Schlaug[2], (1)Neurology, Beth Israel Deaconess Medical Center, Boston, MA, (2)Beth Israel Deaconess Medical Center, Boston, MA

91 107.091 Problem Behaviors in Autism Spectrum Disorder: Is Communication a Specialized Adapting/Coping Mechanism? D. L. Williams[1], M. Siegel[2] and C. A. Mazefsky[3], (1)Communication Sciences and Disorders, Pennsylvania State University, University Park, PA, (2)Maine Medical Center - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME, (3)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA

92 ▸ 107.092 Qualitative Differences of Joint Focus of Attention Between Korean-Speaking Toddlers with Autistic Spectrum Disorder and Toddlers with Developmental Disabilities K. S. Lee[1], Y. J. Shin[2], G. J. Lee[3], K. A. Lee[4], J. Ryu[5] and S. W. Cho[6], (1)Rehabilitation, Hanshin University, Seoul, Korea, The Republic of, (2)Psychiatry, Yonsei University Health System, Seoul, Korea, The Republic of, (3) Rehabilitation, Hanshin University, Osan-si, Korea, The Republic of, (4) Special Education, Dodakim Child Development Center, Seoul, Korea, The Republic of, (5)Cognitive Psychology, Yonsei University, Seoul, Korea, The Republic of, (6)English Literature & Linguistics, Sogang University, Seoul, Korea, The Republic of

93 107.093 Receptive and Expressive Language Skills and Non-Verbal Cognitive Abilities Among Preschool-Aged Autistic Children with Delayed Expressive Language C. Letendre[1], V. Courchesne[1], D. Girard[2], I. Soulières[3], L. Mottron, M.D.[4] and C. Jacques[5], (1)University of Montreal, Montreal, QC, Canada, (2)Université du Québec à Montréal, Montreal, QC, CANADA, (3)University of Quebec in Montreal, Montréal, QC, Canada, (4)University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada, (5) University of Quebec in Outaouais, Gatineau, QC, Canada

94 107.094 Relationships Between Auditory Brainstem Responses and Early Language in Typically-Developing Children and Children with Autism Spectrum Disorders C. N. Meagher[1], V. Tecoulesco[2], L. R. Naigles[3], M. Jones[4], M. Figueiredo[5], E. Skoe[6] and D. A. Fein[7], (1) Developmental Psychology/Speech, Hearing, and Language Sciences, University of Connecticut, Willington, CT, (2)Psychology, University of Connecticut, North Windham, CT, (3)Psychological Sciences, University of Connecticut, Storrs, CT, (4)Developmental Psychology/Speech, Language, and Hearing Sciences, University of Connecticut, Storrs, CT, (5)Speech, Language, and Hearing Sciences, University of Connecticut, Willington, CT, (6)Speech, Language, and Hearing Sciences, University of Connecticut, Storrs, CT, (7)University of Connecticut, Storrs, CT

95 107.095 Scatter: Quantifying a Qualitative Vocabulary Difference in Adults with ASD M. E. Stothers[1] and J. Oram Cardy[2], (1)University of Western Ontario, London, ON, Canada, (2)Western University, London, ON, Canada

96 107.096 Second-Order False Belief Reasoning, Recursive Language Competencies and Working Memory in Children with ASD I. Polyanskaya[1], P. Blackburn[2] and T. Braüner[2], (1)Roskilde University, Roskilde, DENMARK, (2)University of Roskilde, Roskilde, Denmark

97 107.097 Semantics Is Importantly Significant: An Investigation into Lexical Errors in ASD E. Zane, J. Mertens, W. J. Lancaster, A. Chugg and R. B. Grossman, FACE Lab, Emerson College, Boston, MA

98 107.098 Sensory Abnormalities Impact on Language Ability in Autism Spectrum Disorder A. Whitten[1] and J. W. Bodfish[2], (1)Hearing & Speech Sciences, Vanderbilt University, Nashville, TN, (2)Vanderbilt University School of Medicine, Nashville, TN

99 107.099 Sentence Repetition and Nonword Repetition As Markers of Structural Language Impairment in ASD S. Silleresi[1], L. Tuller[2], P. PrÃ©vost[3], S. Ferre[2], R. Zebib[2] and F. Bonnet-Brilhault[4], (1) Linguistics, Université François Rabelais de Tours, Tours, FRANCE, (2) Université François Rabelais de Tours, Tours, France, (3)Université François Rabelais, Tours, France, Tours, FRANCE, (4)UMR930, INSERM, Université François –Rabelais de Tours, Tours, France

100 107.100 Social Communication Outcomes for Young Children with Autism: A Meta-Analysis E. Fuller and A. Kaiser, Vanderbilt University, Nashville, TN

101 107.101 Social Communication in High School Students on the Autism Spectrum: Examining Profiles, Correlations, and Subgroups **J. Dykstra Steinbrenner**[1], J. Sideris[2] and S. W. Nowell[3], (1)Frank Porter Graham Child Development Institute, Carrboro, NC, (2)Frank Porter Graham Child Development Institute, Chapel Hill, NC, (3)University of North Carolina - Chapel Hill, Chapel Hill, NC

102 107.102 Social Impairment in Conversation: Disfluency and Compensatory Mechanisms **R. Fusaroli**[1], A. Lambrechts[2], E. Weed[3], K. L. Maras[4], K. Yarrow[5], D. M. Bowler[6] and S. B. Gaigg[6], (1)Aarhus University, Aarhus, DENMARK, (2)City University London, Ruislip, UNITED KINGDOM, (3)Aarhus University, Beder, DENMARK, (4) University of Bath, Bath, UNITED KINGDOM, (5)City University London, London, United Kingdom, (6)Psychology, City, University of London, London, United Kingdom

103 107.103 Social and Communication Subtypes in Autism Spectrum Disorders (ASD) without Intellectual Disability (ID) S. Rau[1], G. Wallace[2], **D. Limon**[3], L. G. Anthony[3], A. C. Armour[4], B. Orionzi[5] and L. Kenworthy[3], (1)Children's National Health System, Rockville, MD, (2)The George Washington University, Washington, DC, (3)Children's National Health System, Washington, DC, (4)Children's National Medical Center, Washington, DC, (5)University of Minnesota Medical School, Minneapolis, MN

104 107.104 Strategic Reading Comprehension Intervention for Children with ASD: Developing an Observational Tool to Identify Patterns of Active Engagement and Instructional Support **N. J. Sparapani**[1], E. J. Solari[2], N. S. McIntyre[3], M. C. Zajic[4], A. R. Henry[3] and P. C. Mundy[5], (1)School of Education, University of California, Davis, Davis, CA, (2) University of California, Davis, Davis, CA, (3)University of California at Davis, Davis, CA, (4)University of California at Davis MIND Institute, Davis, CA, (5)University of California at Davis, Sacramento, CA

105 107.105 Talker Expectations: Top-Down Information Integration during Speech Perception in ASD **A. Hogstrom**, J. J. Green, B. Castelluccio, A. R. Canfield, C. Irvine and I. M. Eigsti, Department of Psychological Sciences, University of Connecticut, Storrs, CT

106 ▸ 107.106 The Acquisition of Flexible Word Order and Case-Markings in Korean Children with Autism Spectrum Disorder J. Park[1], M. Nam[2], S. W. Cho[3], S. J. Lee[2] and **L. R. Naigles**[1], (1)Psychological Sciences, University of Connecticut, Storrs, CT, (2)Seoul Metropolitan Eunpyeong Hospital, Seoul, Korea, The Republic of, (3)Sogang University, Seoul, Korea, The Republic of

107 107.107 The Development of Early Gesture-Speech Combinations in Infants at High Risk for Autism Spectrum Disorder **A. B. Choi**[1], P. Shah[2], M. Rowe[3], C. A. Nelson[4] and H. Tager-Flusberg[5], (1)Harvard University, Cambridge, MA, (2)Boston University, Boston, MA, (3)Harvard Graduate School of Education, Cambridge, MA, (4)Boston Children's Hospital, Boston, MA, (5)Psychological and Brain Sciences, Boston University, Boston, MA

108 107.108 The Hands Have It: Variation in the Latency of Neural Activity during Beat Gesture-Speech Integration in ASD **L. Morett**[1], N. Landi[2,3], J. Irwin[3] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)Haskins Laboratories, Yale University, New Haven, CT

109 107.109 The Impact of Bilingualism on Conversational Understanding in Adolescents with Autism Spectrum Disorders. **M. Marukhnyak**, Department of French, University of Toronto, Toronto, ON, Canada

110 107.110 The Influence of Social Communication on Written Expression in School-Age, Higher-Functioning Children with Autism Spectrum Disorders **M. C. Zajic**[1], N. S. McIntyre[2], L. E. Swain-Lerro[3], J. McCauley[4], H. K. Schiltz[5], T. Oswald[6] and P. C. Mundy[7], (1)University of California at Davis MIND Institute, Davis, CA, (2)University of California at Davis, Davis, CA, (3)UC Davis, Santa Rosa, CA, (4)UC Davis MIND Institute, Sacramento, CA, (5)Marquette University, Milwaukee, WI, (6) University of California at Davis MIND Institute, Sacramento, CA, (7) University of California at Davis, Sacramento, CA

111 107.111 The Linguistic and Cognitive Effects of Bilingualism on Children with Autism Spectrum Disorders **A. M. Gonzalez Barrero** and A. Nadig, McGill University, Montreal, QC, CANADA

112 107.112 The Role of Sleep in Language Acquisition in Children with Autism Spectrum Disorder **F. E. Fletcher**[1], V. Knowland[1], S. Walker[1], C. Norbury[2], G. Gaskell[1] and L. M. Henderson[1], (1)University of York, York, United Kingdom, (2)UCL, London, United Kingdom

113 107.113 The Serial Relation of Theory of Mind and Functional Communication in the Externalizing Problems of Children with ASD **T. Estrada**, R. Bowler, T. Rutter, E. A. Lovell and B. J. Wilson, Seattle Pacific University, Seattle, WA

114 107.114 Trajectories of Receptive Vocabulary Development from 4 to 8 Years in Children with and without Autism Spectrum Disorder: A Population-Based Study **A. Brignell**[1], T. May[1], A. T. Morgan[1,2] and K. Williams[1,2,3], (1)Paediatrics, The University of Melbourne, Parkville, VIC, Australia, (2)Murdoch Childrens Research Institute, Parkville, VIC, Australia, (3)Developmental Medicine, The Royal Children's Hospital, Parkville, VIC, Australia

115 107.115 Using Computational Measures of Social Communication Dynamics for Children with Autism Spectrum Disorder **V. Romero**[1], P. Fitzpatrick[2], A. Duncan[3], R. Schmidt[4], P. L. Silva[5] and M. J. Richardson[6], (1)University of Cincinnati, Cincinnati, OH, (2) Assumption College, Worcester, MA, (3)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)College of the Holy Cross, Worcester, MA, (5)Psychology, University of Cincinnati, Cincinnati, OH, (6)University of Cincinnati -Center for Cognition Action & Perception, Cincinnati, OH

116 107.116 When "Easy" Conversations Seem Harder: Filler Words and Social Context in Adults with ASD A. Okocha[1], J. Boorse[1], L. Bateman[2], A. A. Pallathra[3], B. Maddox[4], E. S. Brodkin[3], E. Ferguson[2], Z. M. Dravis[1], N. Minyanou[5], A. T. Pomykacz[6], K. Bartley[7], E. S. Kim[8], A. B. de Marchena[9], J. Pandey[8], R. T. Schultz[8] and **J. Parish-Morris**[1], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research/CHOP, Philadelphia, PA, (3)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (7)Center for Autism Research, Malvern, PA, (8)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Center for Autism Research, Philadelphia, PA

117 107.117 Conversational Compensation Predicts Autism Symptom Severity: An Ecologically Valid Marker of Social Motivation J. Boorse[1], A. Okocha[1], L. Bateman[2], A. A. Pallathra[3], B. Maddox[4], E. S. Brodkin[3], E. Ferguson[2], Z. M. Dravis[1], N. Minyanou[5], A. T. Pomykacz[6], K. Bartley[7], E. S. Kim[8], A. B. de Marchena[9], J. Pandey[8], R. T. Schultz[8] and J. Parish-Morris[4], (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research/CHOP, Philadelphia, PA, (3)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (7)Center for Autism Research, Malvern, PA, (8)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9) Center for Autism Research, Philadelphia, PA

118 107.118 Facetime Vs. Screentime: Decreased Modulation of Gaze Patterns to Live and Recorded Social Stimuli in ASD R. B. Grossman, J. Mertens and E. Zane, FACE Lab, Emerson College, Boston, MA

119 107.119 Linguistic and Prosodic Correlates of Perceived Social Skills in Conversation A. Shield[1], D. K. Bone[2], S. Narayanan[2] and R. B. Grossman[3], (1)Miami University, Oxford, OH, (2)University of Southern California, Los Angeles, CA, (3)FACE Lab, Emerson College, Boston, MA

120 107.120 Reduced Phonetic Convergence in Autism Spectrum Disorder A. R. Canfield[1], B. Castelluccio[1], A. Hogstrom[1], J. J. Green[1], C. Irvine[1], R. M. Theodore[2] and I. M. Eigsti[1], (1)Department of Psychological Sciences, University of Connecticut, Storrs, CT, (2)Speech, Language, and Hearing Sciences, University of Connecticut, Storrs, CT

121 107.121 Animating Characters and Experiencing Others: A Look at Peer Groups› Storyboard Narratives K. Bottema-Beutel, Lynch School of Education, Boston College, Boston, MA

## Poster Session
108 - Genetics
12:00 PM - 1:40 PM - Golden Gate Ballroom

122 108.122 Age at First Birth Has Genetic Determinants and Is Related to Social Responsiveness M. Vysotskiy[1], I. Mitra[1], M. Traglia[1], L. A. Croen[2] and L. Weiss[1], (1)Department of Psychiatry and Institute for Human Genetics, University of California San Francisco, San Francisco, CA, (2)Kaiser Permanente Division of Research, Oakland, CA

123 108.123 Assortative Mating in Autism Spectrum Disorder S. Connolly[1], R. J. Anney[2], L. Gallagher[3] and E. Heron[4], (1)St James, Trinity College Dublin, Dublin, Ireland, (2)Cardiff University, Cardiff, United Kingdom, (3)Trinity Centre for Health Sciences, Institute of Molecular Medicine, Dublin, IRELAND, (4)Trinity College Dublin, Dublin, IRELAND

124 108.124 Atypical Neural Sensory Processing of Auditory Stimulus Change Among Children with De Novo Disruptive Mutations to SCN2A T. DesChamps[1], B. E. Cairney[2], C. M. Hudac[3], R. Ma[4], A. S. Wallace[2], V. Troiani[5], A. S. DiCriscio[6], C. M. Taylor[7] and R. Bernier[2], (1)University of Washington, Seattle, WA, (2)University of Washington Autism Center, Seattle, WA, (3)Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA, (4)Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, MA, (5)Geisinger-Bucknell Autism & Developmental Medicine Institute, Lewisburg, PA, (6) Autism & Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (7)Geisinger Health System, Lewisburg, PA

125 108.125 Autism and Obesity: Assessing Antipsychotic-Induced Weight Gain and BMI Associated SNPs Z. Talebizadeh[1], A. Shah[1], J. Noel-MacDonnell[1], H. Dai[1], J. N. Constantino[2] and D. J. Mueller[3], (1) Children's Mercy Hospital, Kansas City, MO, (2)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (3)Centre for Addiction and Mental Health, Toronto, ON, Canada

126 108.126 Chemical-Gene-Disease Interaction Analysis Reveals Overlaps Between Autism and Cancer Y. Wen[1,2] and M. R. Herbert[1,2], (1)Neurology, Massachusetts General Hospital, Charlestown, MA, (2) Harvard Medical School, Boston, MA

127 108.127 Clinical Characterisation of Neurexin1 Deletions and Their Role in Neurodevelopmental Disorders J. E. Fitzgerald[1], M. Al-Shehhi[2], S. A. Lynch[2], H. Peeters[3], N. Cosemans[4], A. C. Tabet[5], R. Delorme[6], T. Bourgeron[7], M. van den Bree[8], J. Hall[9], S. Shen[10] and L. Gallagher[11], (1)Trinity College, Trinity College Dublin, Dublin 2, Ireland, (2)National Centre for Medical Genetics, Our Lady's Children's Hospital Crumlin, Dublin, Ireland, (3)Centre for Human Genetics, KU Leuven and Leuven Autism Reasearch, Leuven, BELGIUM, (4)KU Leuven, Leuven, Belgium, (5)AP HP, Robert Debre Hospital, PARIS, FRANCE, (6)Institut Pasteur, Paris, France, (7)Neuroscience, Institut Pasteur, Paris, France, (8)Council Centre for Neuropsychiatric Genetics and Genomics, Institute of Psychological Medicine and Clinical Neurosciences, Cardiff University, Wales, United Kingdom, (9)Neuroscience Mental Health Research Institute, Cardiff University, Wales, United Kingdom, (10)REMEDI, National University Ireland Galway, Galway, Ireland, (11)Trinity Centre for Health Sciences, Institute of Molecular Medicine, Dublin, IRELAND

128 108.128 Comparison of Phenotypic Severity Associated with Autism Risk CNVs in Clinically Identified Samples of High Functioning Males and Females D. H. Skuse[1], I. Lee[2], M. Murin[3] and W. Mandy[4], (1) Institute of Child Health, London, United Kingdom, (2)Behavioual an Brain Sciences Unit, UCL Institute of Child Health, London, UNITED KINGDOM, (3)Great Ormond Street Hospital for Children, London, UNITED KINGDOM, (4)University College London, London, United Kingdom

129 108.129 Creatine Transporter Deficiency: A Rare Neurodevelopmental Disorder with ASD Symptomatology J. Miller[1], R. P. Thomas[2], A. Bruchey[3], R. J. Davis[3] and A. Thurm[4], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, Philadelphia, PA, (3)Lumos Pharma, Inc., Austin, TX, (4)National Institute of Mental Health, Bethesda, MD

130 108.130 Developmental Markers of Genetic Liability to Autism in Parents: A Longitudinal, Multigenerational Study M. Losh[1], G. E. Martin[2], M. Lee[1], J. Klusek[3], J. Sideris[4], T. Wassink[5] and S. Barron[5], (1)Northwestern University, Evanston, IL, (2)St. John's University, Staten Island, NY, (3)Communication Sciences and Disorders, University of South Carolina, Columbia, SC, (4)Frank Porter Graham Child Development Institute, Chapel Hill, NC, (5)University of Iowa, Iowa City, IA

131 108.131 Differential Alternative Splicing in Superior Temporal Gyrus of Autism Spectrum Disorders Brains B. Stamova[1], B. P. Ander[1], A. Omanska[2], F. R. Sharp[1] and C. M. Schumann[2,3], (1)Neurology, University of California, Davis School of Medicine, Sacramento, CA, (2) Psychiatry and Behavioral Sciences, University of California, Davis, Sacramento, CA, (3)Psychiatry & Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

132 108.132 Dysregulation of Cortical Neuron DNA Methylation in Autism: Implication of Gabaergic and Immune System-Related Genes S. Nardone[1], D. S. Sams[1], A. Zito[2], E. Reuveni[1] and E. Elliott[3], (1)Bar Ilan University, Safed, Israel, (2)King's College, London, United Kingdom, (3) Bar-Ilan University, Safed, ISRAEL

133 108.133 Epigenomic Mechanisms Underlying Pathology in Chd8 Haploinsufficiency A. A. Wade, L. Su-Feher, A. Gompers, R. Catta-Preta, I. Zdilar, T. W. Stradleigh and A. S. Nord, Center for Neuroscience, Department of Neurobiology, Physiology, & Behavior, University of California, Davis, Davis, CA

134 108.134 Examining Minor Physical Anomalies in Autism Spectrum Disorder (ASD) and Attention-Deficit/Hyperactivity Disorder (ADHD): A Twin Study L. H. Myers[1,2], K. Tammimies[3], B. M. Anderlid[4], A. Nordgren[4] and S. Bolte[5,6], (1)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, Stockholm, Sweden, (2) Stockholm County Council, Center for Psychiatry Research, Stockholm, Sweden, (3)Karolinska Institutet, Stockholm, SWEDEN, (4)Department of Clinical Genetics, Karolinska University Hospital, Stockholm, Sweden, (5) Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (6)Stockholm County Council, Stockholm, Sweden, Division of Child and Adolescent Psychiatry, Center for Psychiatry Research, Stockholm, Sweden

135 108.135 Exploring Heterogeneity in the ASD Blood Transcriptome: Machine-Learning Classification Accuracy Is Improved By Modeling Subgroups. D. S. Tylee[1], J. L. Hess[1], T. P. Quinn[1], B. Stamova[2], F. R. Sharp[3], I. Hertz-Picciotto[4], S. V. V. Faraone[5], S. W. Kong[6] and S. J. Glatt[1], (1)SUNY Upstate Medical University, Syracuse, NY, (2) UC Davis MIND Institute, Sacramento, CA, (3)Neurology, University of California, Davis School of Medicine, Sacramento, CA, (4)University of California at Davis, Davis, CA, (5)Psychiatry, SUNY Upstate Medical University, Syracuse, NY, (6)Computational Health Informatics Program, Boston Children's Hospital, Boston, MA

136 108.136 Gene Expression Correlates of Language Regression in Autism Spectrum Disorder S. Trinh[1] and R. Bernier[2], (1)University of Washington, Seattle, WA, (2)University of Washington Autism Center, Seattle, WA

137 108.137 Genetic Influence on Treatment Response in Children with ASD M. Arranz[1], A. Hervas[2], I. Rueda Barcena[3], S. Guijarro[4], N. Balmaña[5], A. Ruiz[4] and A. Gonzalez[4], (1)Terrassa, Fundacio Mutua Terressa - HUMT (UB), Barcelona, Spain, (2)Hospital Mutua de Terrassa, Barcelona, SPAIN, (3)HOSPITAL SANT JOAN DE DEU - BARCELONA, BARCELONA, SPAIN, (4)Hospital Universitari Mutua Terrassa - University of Barcelona, Terrassa (Barcelona), Spain, (5)Hospital Universitari Mutua de Terrassa, Terrassa, SPAIN

138 108.138 Genetic Investigation of Restricted and Repetitive Behaviors in Autism M. L. Cuccaro[1], S. Luzi[1], E. R. Martin[1], H. N. Cukier[2], A. J. Griswold[1] and M. A. Pericak-Vance[1], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)John P. Hussman Institute for Human Genomics, Department of Neurology, University of Miami Miller School of Medicine, Miami, FL

139 108.139 Genetic Stratification Based on Biological Networks in Autism Spectrum Disorders Y. M. KIM[1], T. Rolland[1], R. Delorme[1], G. Dumas[1] and T. Bourgeron[2], (1)Institut Pasteur, Paris, France, (2) Neuroscience, Institut Pasteur, Paris, France

140 108.140 Genetic Test Results in Children Under 3 Years of Age Who Are at-Risk for Neurodevelopmental Disorders: An Update C. Hensel[1], R. Vanzo[1], M. Serrano[1], E. R. Wassman[1] and C. Samango-Sprouse[2], (1)Lineagen, Inc., Salt Lake City, UT, (2)The Focus Foundation, Davidsonville, MD

141 108.141 Genetic and Neurobehavioral Profile of the SHANK3 Gene Deficiency Children in China C. Liu[1], B. Zhou[2], C. Hu[2] and X. Xu[2], (1)15111240007@Fudan.Edu.Cn, Children's Hospital of Fudan University, Shanghai, China, (2)Children's Hospital of Fudan University, Shanghai, China

142 108.142 Genome-Wide Association Study Suggests Genetic Homogeneity within Complex Autism Subgroup M. Spencer[1], T. N. Takahashi[2], J. H. Miles[3] and C. R. Shyu[1], (1)Informatics Institute, University of Missouri, Columbia, MO, (2)Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (3)Thompson Center at the University of Missouri, Columbia, MO

143 ▸ 108.143 Genomewide Association and Meta-Analysis of Autism Spectrum Disorder in the Multi-Ethnic Charge Cohort C. L. Simpson[1], R. J. Schmidt[2], K. Kim[3], R. Hansen[4] and I. Hertz-Picciotto[2], (1)University of Tennessee Health Science Center, Memphis, TN, (2)University of California at Davis, Davis, CA, (3)Department of Public Health Sciences, University of California, Davis, Davis, CA, (4)UCD MIND Institute, Sacramento, CA

144 108.144 Hierarchical Cortical Transcriptome Disorganization in Autism M. V. Lombardo[1,2], E. Courchesne[3], N. E. Lewis[4] and T. Pramparo[5], (1)University of Cambridge, Cambridge, United Kingdom, (2)University of Cyprus, Nicosia, Cyprus, (3)University of California, San Diego, San Diego, CA, (4)university of california san diego, san diego, CA, (5)Autism Center of Excellence, UCSD, La Jolla, CA

145 108.145 High Diagnostic YIELD and Low Therapeutic IMPACT of Array-CGH in the Clinical Management of Autistic Patients. A. M. Persico[1], C. Lintas[2], C. Brogna[2], S. Gabriele[2], C. Picinelli[3], P. Tomaiuolo[4], I. S. Piras[5], M. Lamberti[6] and R. Sacco[7], (1)University of Messina, Messina, Italy, (2)University Campus Bio-Medico, Rome, ITALY, (3)Mafalda Luce Center for Pervasive Developmental Disorders, Milan, Italy, (4)Mafalda Luce Center for Pervasive Developmental Disorders, Milan, ITALY, (5)TGEN, Phoenix, AZ, (6)University of Messina, Messina, ITALY, (7)Univ. Campus Bio-Medico, Rome, ITALY

146 108.146 High Frequency of CNVs Targeting Genes That Regulate Exposure to Toxicants in Autism Spectrum Disorder (ASD) – a Role for Gene-Environment Interactions J. X. Santos[1,2], C. Rasga[1,2], M. Asif[1,2], A. R. Marques[1,2] and A. M. Vicente[1,2,3], (1)Instituto Nacional de Saúde Doutor Ricardo Jorge (INSA), Lisbon, Portugal, (2)Biosystems and Integrative Sciences Institute (BioISI), Lisbon, Portugal, (3)Instituto Gulbenkian de Ciência, Oeiras, Portugal

147 108.147 Mapping Developmental Trajectories in 22q11.2 Deletion Syndrome T. Lan[1], M. Meyer[2], A. Merz[3] and C. M. Taylor[3], (1)Bucknell University, Lewisburg, PA, (2)Georgetown University, Washington, DC, (3)Geisinger Health System, Lewisburg, PA

148 108.148 Neurobehavioral Traits in Family Members Inform GENE Discovery in ASD S. Luzi[1], M. L. Cuccaro[2], E. R. Martin[2], L. Gomez[3], A. J. Griswold[2], H. N. Cukier[4], P. whitehead-Gay[5], J. Haines[6], J. P. Hussman[7] and M. A. Pericak-Vance[2], (1)University of Miami Miller School of Medicine, Miami, FL, (2)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (3)hussman institute for human genomics, university of miami, miami, FL, (4)John P. Hussman Institute for Human Genomics, Department of Neurology, University of Miami Miller School of Medicine, Miami, FL, (5) university of miami, miami, FL, (6)Institute for Computational Biology Case Western Reserve University School of Medicine, cleveland, OH, (7) Hussman Institute for Autism, Inc., Catonsville, MD

149 108.149 Phenotypic Description of Individuals with PTEN Mutations, ASD and Macrocephaly F. Duque[1,2], J. Almeida[1], S. Mouga[1,3], C. Café[1], F. Ramos[4] and G. Oliveira[1,2,3], (1)Unidade de Neurodesenvolvimento e Autismo, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (2)University Clinic of Pediatrics, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (3)Institute for Biomedical Imaging and Life Science, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (4)Serviço de Genética Médica, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal

150 108.150 Placental DNA Methylation in Relation to Maternal Periconceptional Prenatal Vitamin Use and Child Outcomes in the Marbles Prospective Autism Study Y. Zhu[1], J. M. LaSalle[2], D. I. Schroeder[3], P. Krakowiak[4], C. E. Mordaunt[5], K. W. Dunaway[5], F. K. Crary[3], C. K. Walker[6], S. Ozonoff[7], I. Hertz-Picciotto[2] and R. J. Schmidt[2], (1)University of California, Davis, Davis, CA, (2)University of California at Davis, Davis, CA, (3)University of California Davis, Davis, CA, (4)UC Davis, Sacramento, CA, (5)Center for Children's Environmental Health, University of California, Davis, Davis, CA, (6) University of California, Sacramento, CA, (7)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

151 108.151 Possible Maternally Acting Gene Alleles (MAGAs) in Autism W. G. Johnson[1], S. Buyske[2] and E. S. Stenroos[3], (1)661 Hoes Lane, Rutgers University, Piscataway, NJ, (2)Statistics Dept, Rutgers University, Piscataway, NJ, (3)Neurology, Rutgers-RWJMS, Piscataway, NJ

152 108.152 Prenatal Air Pollution Exposure and Cord Blood DNA Methylation in the Early Autism Risk Longitudinal Investigation (EARLI) J. I. Feinberg[1], K. M. Bakulski[2], C. Ladd-Acosta[1], S. C. Brown[1], L. A. Croen[3], I. Hertz-Picciotto[4], C. J. Newschaffer[5], A. P. Feinberg[6], M. D. Fallin[7] and H. E. Volk[1], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)University of Michigan School of Public Health, Ann Arbor, MI, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)University of California at Davis, Davis, CA, (5)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (6)Johns Hopkins University, Baltimore, MD, (7)Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD

153 108.153 Prioritization of ASD-Associated Genes By Variant Annotation Identifies Trends in Genetic Variant Discovery E. Larsen[1], W. Pereanu[2] and S. B. Basu[2], (1)MindSpec Inc., McLean, VA, (2) Mindspec, Inc., McLean, VA

154 108.154 Quantification of FMRP in Human and Mouse Tissues By Capture Immunoassay W. T. Brown[1], G. LaFauci[2], T. Adayev[2], R. Kascsak[3], R. Kascsak[4], C. Dobkin[5] and S. Nolin[6], (1) Human Genetics, NYS Institute for Basic Research in DD, Staten Island, NY, (2)Developmental Biochemistry, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Developmental Biochemistry, NYS Institute for Basic Research in Develpmental Disabilities, Staten Island, NY, (4)Develpmental Biochemistry, NYS Institute for Basic Research in Develpmental Disabilities, Staten Island, NY, (5)Human Genetics, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (6)Human Genetics, NYS Institute for Basic Research in Develpmental Disabilities, Staten Island, NY

155 108.155 Role of ANK2 in Autism Spectrum Disorder R. Bina[1], J. Li[1], B. Fregeau[1], K. A. Dies[2], M. Martyn[3] and E. Sherr[4], (1)Neurology, UCSF, SF, CA, (2)Neurology, Boston children's hospital, Boston, MA, (3) Hospital Infantil Sabará, São Paulo, Brazil, (4)UCSF, San Francisco, CA

156 108.156 Sexually Dimorphic Regulation of Norepinephrine Projection Neurons: Transcriptional Profiling of Mouse Locus Coeruleus B. Mulvey[1] and J. Dougherty[2], (1)Washington University in St. Louis, St. Louis, MO, (2)Genetics, Washington University School of Medicine, St. Louis, MO

157 108.157 The Challenge of Whole Exome Sequencing As a Molecular Diagnosis for ASD M. R. P. Bueno[1], T. Almeida[2], D. P. Moreira[3], S. A. Ezquina[4], G. L. Yamamoto[5] and E. C. Zachi[6], (1)Universidade de sao Paulo-USP, Sao Paulo, Brazil, (2)Centro de Pesquisas sobre o Genoma Humano e Células-tronco (CEGH-CEL), Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, São Paulo, Brazil, (3) Universidade de São Paulo, Sao Paulo, Brazil, (4)Centro de Pesquisas sobre o Genoma Humano e Células-tronco (CEGH-CEL), Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, (5)Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, São Paulo, Brazil, (6)Instituto de Psicologia, Universidade de São Paulo, São Paulo, Brazil, São Paulo, Brazil

158 108.158 The Feature Landscape of Autism Risk Genes Indicates Their Enrichment in Developmental Regulation E. L. Casanova[1], A. E. Switala[2] and M. F. Casanova[3], (1)University of South Carolina, School of Medicine, Greenville, SC, (2)University of Louisville, Louisville, KY, (3)University of South Carolina School of Medicine, Greenville, SC

159 108.159 The Genetic Architecture of Autism Spectrum Disorders in the Faroe Islands C. Carton[1,2], G. Huguet[1], A. Mathieu[1], J. Buratti[3], A. Boland[4], D. Bacq[4], J. Halling[5], G. Andorsdóttir[6], C. S. Leblond[1,2], M. T. Bihoreau[4], V. Meyer[4], J. F. Deleuze[4], E. Billstedt[7], T. Bourgeron[2,8] and C. Gillberg[7], (1)Institut Pasteur, Paris, France, (2)Université Paris Diderot, Paris, France, (3)Hôpital Pitié-Salpêtrière, Paris, France, (4)Centre National de Génotypage, Evry, France, (5)Clinical Pharmacology, Faculty of Health Sciences, Institute of Public Health, University of Southern Denmark, Odense, Denmark, (6)Genetic Biobank of the Faroe Islands, Tórshavn, Faroe Islands, (7)Gillberg Neuropsychiatry Centre, Gothenburg, SWEDEN, (8)Neuroscience, Institut Pasteur, Paris, France

160 108.160 The Genetics of Educational Attainment, Autism, and Schizophrenia Show Points of Convergence V. Warrier[1], R. A. Bethlehem[2] and S. Baron-Cohen[3], (1)University of Cambridge, Cambridge, England, United Kingdom, (2)Department of Psychiatry, University of Cambridge, Cambridge, UNITED KINGDOM, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

161 108.161 Towards a Pathway Driven Clinical-Molecular Framework for Classifying Neurodevelopmental Disorders C. A. Ziats[1] and M. N. Ziats[2], (1)Neurological Surgery, University of Michigan, Ann Arbor, MI, (2)Internal Medicine, University of Michigan, Ann Arbor, MI

162 108.162 Transcriptome Analysis in Neuronal Cells of an Autistic Patient with 17p13.3 Duplication: Identification of Upregulation of Ywhae and Crk and Possible Contributor Factors for Penetrance. K. Griesi-Oliveira[1,2], M. S. Fogo[1,2], A. M. Suzuki[2], A. G. Morales[2], O. J. Sosa[3], S. A. Ezquina[2], D. P. Moreira[2], S. S. Costa[2], C. Rosenberg[2], E. M. Reis[3] and M. R. P. Bueno[2], (1)Albert Einstein Hospital, Sao Paulo, Brazil, (2)Centro de Pesquisas sobre o Genoma Humano e Células-tronco (CEGH-CEL), Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, (3)Departamento de Bioquímica, Instituto de Química, Universidade de São Paulo, São Paulo, Brazil

163 108.163 Umbilical Cord Blood Androgen Related Gene Expression and Risk of Autism Spectrum Disorder in an Enriched Pregnancy Cohort K. M. Bakulski[1], B. Y. Park[2], J. I. Feinberg[3], L. A. Croen[4], I. Hertz-Picciotto[5], C. Ladd-Acosta[6], C. J. Newschaffer[7], H. E. Volk[6] and M. D. Fallin[8], (1)University of Michigan School of Public Health, Ann Arbor, MI, (2)Johns Hopkins Bloomberg School of Public Health, Baltimore,, MD, (3)Johns Hopkins University, Baltimore, MD, (4) Kaiser Permanente Division of Research, Oakland, CA, (5)University of California at Davis, Davis, CA, (6)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (7)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (8)Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD

164 108.164 Variable Expressivity of Neurodevelopmental Disturbances Due to Loss-of-Function of AP1S2 D. P. Moreira[1], T. Almeida[2], E. C. Zachi[3], S. A. Ezquina[1], G. L. Yamamoto[4] and M. R. P. Bueno[1], (1)Centro de Pesquisas sobre o Genoma Humano e Células-tronco (CEGH-CEL), Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, (2)Centro de Pesquisas sobre o Genoma Humano e Células-tronco (CEGH-CEL), Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, São Paulo, Brazil, (3) Instituto de Psicologia, Universidade de São Paulo, São Paulo, Brazil, São Paulo, Brazil, (4)Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, São Paulo, Brazil

165 108.165 Visualising Multiple Hits in Autism Spectrum Disorders Using Whole Genome Sequencing and Protein-Protein Interaction Networks F. Cliquet[1], C. Carton[1,2], T. Kergrohen[1], A. Mathieu[1], A. Ziegler[3], J. Van-Gils[4], J. Buratti[5], F. Amsellem[1,6], T. Rolland[1], C. S. Leblond[1,2], D. Bonneau[3], B. Schwikowski[1], R. Delorme[1,6] and T. Bourgeron[2,7], (1) Institut Pasteur, Paris, France, (2)Université Paris Diderot, Paris, France, (3)CHU Angers, Angers, France, (4)CHU Bordeaux, Bordeaux, France, (5)Hôpital Pitié-Salpêtrière, Paris, France, (6)Hôpital Robert-Debré, Paris, France, (7)Neuroscience, Institut Pasteur, Paris, France

166 108.166 Whole Exome Sequencing of Autism Spectrum Disorder Reveals Novel De Novo Variants in Korean Population H. J. Yoo[1,2], S. A. Kim[3], M. Park[4], J. Kim[5], W. J. Lim[5,6], G. Bong[1], D. H. Noh[1], D. W. Han[7], C. Shin[8] and N. Kim[5,6], (1)Psychiatry, Seoul National University Bundang Hospital, Seongnam, Korea, The Republic of, (2)Psychiatry, Seoul National University College of Medicine, Seoul, Korea, The Republic of, (3)Pharmacology, Eulji University, Daejon, Korea, The Republic of, (4)Epidemiology, Eulji University, Daejon, Korea, The Republic of, (5)Personalized Genomic Medicine Research Center, Korea Research Institute of Bioscience and Biotechnology, Daejon, Korea, The Republic of, (6)Functional Genomics, Korea University of Science and Technology, Daejon, Korea, The Republic of, (7)Stem Cell Biology, Konkuk University, Seoul, Korea, The Republic of, (8)Pharmacology, Konkuk University, Seoul, Korea, The Republic of

167 108.167 Whole Genome Sequencing and Rare Variant Discovery in the Aspire Autism Spectrum Disorder Cohort S. Rogic[1], B. Callaghan[1], P. Tan[1], K. Calli[2], Y. Qiao[3], M. Jacobson[1], M. Belmadani[1], N. Holmes[1], C. Yu[4], Y. Li[4], Y. Li[4], F. E. Kurtzke[2], A. Yu[2], M. Hudson[5,6], A. Dionne-Laporte[7,8], S. Girard[9], P. Liang[10], E. Rajcan-Separovic[3], X. Liu[6,11], G. A. Rouleau[7,8], S. M. Lewis[2] and P. Pavlidis[1], (1)MSL and Department of Psychiatry, University of British Columbia, Vancouver, BC, Canada, (2)Department of Medical Genetics, University of British Columbia, Vancouver, BC, Canada, (3)Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada, (4) BGI Tech Solutions, Hong Kong, China, (5)Department of Psychiatry, Queen's University, Kingston, ON, Canada, (6)Queen's Genomics Lab at Ongwanada, Ongwanada Resource Center, Kingston, ON, Canada, (7)Department of Neurology and Neurosurgery, McGill University, Montreal, QC, Canada, (8)Montreal Neurological Institute, Montreal, QC, Canada, (9)Department of Human Genetics, McGill University, Montreal, QC, Canada, (10)Brock University, St. Catharines, ON, Canada, (11) Department of Psychiatry, Queen's University, Kingston, ON, Canada

168 108.168 Whole Genome Sequencing of Extended Families Reveals Novel ASD Risk Variants H. N. Cukier[1,2], A. J. Griswold[1,3], D. Van Booven[1], N. K. Hofmann[1], P. L. Whitehead[1], E. R. Martin[1], M. L. Cuccaro[1], J. R. Gilbert[1], J. P. Hussman[4] and M. A. Pericak-Vance[1,2], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)Department of Neurology, University of Miami Miller School of Medicine, Miami, FL, (3)Department of Pathology, University of Miami Miller School of Medicine, Miami, FL, (4)Hussman Institute for Autism, Inc., Catonsville, MD

169 108.169 Sex-Modulated Structural Covariance Networks in Autism R. A. Bethlehem[1], M. V. Lombardo[2,3], A. N. Ruigrok[2], B. Auyeung[4], J. Suckling[5], E. Bullmore[5], M. Consortium[6], S. Baron-Cohen[2], B. Chakrabarti[7] and M. C. Lai[8], (1)University of Cambridge, Cambridge, England, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)University of Cyprus, Nicosia, Cyprus, (4)University of Edinburgh, Edinburgh, United Kingdom, (5)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (6) Institute of Psychiatry, Psychology and Neuroscience, London, United Kingdom, (7)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (8)Psychiatry, University of Toronto, Toronto, ON, CANADA

170 108.170 Cognitive and Head Circumference Differences in 16p11.2 CNV Carriers with and without Autism. A. Maillard[1], B. Rodriguez-Herreros[2,3,4], A. Pain[5,6], S. Martin-Brevet[5], C. Modenato[5,6,7,8], C. S. Chawner[9], L. Green Snyder[10], E. Hanson[11], R. Bernier[12], R. P. Goin-Kochel[13], N. Chabane[14], B. Draganski[7,8], J. Hall[15], D. H. Skuse[16], F. L. Raymond[17], J. L. Doherty[9], K. Mannik[18], M. J. Owen[9], A. Reymond[19], M. van den Bree[20], W. Chung[21] and S. Jacquemont[22], (1)Service de Génétique Médicale, Lausanne University Hospital, Pully, SWITZERLAND, (2)Lausanne University Hospital, Lausanne, Switzerland, (3)CHU Sainte-Justine Research Center, Université de Montréal, Montreal, QC, Canada, (4)Department of Pediatrics,, Université de Montréal, Montreal, QC, Canada, (5)Genetics, Lausanne University Hospital, Lausanne, Switzerland, (6)Genetics, University of Lausanne, Lausanne, Switzerland, (7)Department for Clinical Neurosciences, Lausanne University Hospital, Lausanne, Switzerland, (8)Department for Clinical Neurosciences, University of Lausanne, Lausanne, Switzerland, (9)Institute of Psychological Medicine and Clinical Neurosciences, Cardiff University, Wales, United Kingdom, (10)Clinical Research Associates, Ivoryton, CT, (11)Children's Hospital Boston, Boston, MA, (12)University of Washington Autism Center, Seattle, WA, (13)Pediatrics, Baylor College of Medicine, Houston, TX, (14)INSERM U1000, Paris, France, (15) Neuroscience Mental Health Research Institute, Cardiff University, Wales, United Kingdom, (16)UCL GOS Institute of Child Health, London, UNITED KINGDOM, (17)Department of Medical Genetics, Cambridge Institute for Medical Research, Cambridge, United Kingdom, (18)Center for Integrative Genomics, University of Lausanne, Lausanne, Switzerland, (19) University of Lausanne, Lausanne, SWITZERLAND, (20)Council Centre for Neuropsychiatric Genetics and Genomics, Institute of Psychological Medicine and Clinical Neurosciences, Cardiff University, Wales, United Kingdom, (21)Simons Foundation, New York, NY, (22)University of Montreal, Montreal, QC, CANADA

171 108.171 The Effects of 16p11.2 Gene Dosage on Brain Structure S. Martin-Brevet[1], B. Rodriguez-Herreros[2], J. Nielsen[3], C. Moreau[4], A. Maillard[5], A. Pain[6], C. Modenato[7], S. Richetin[8], N. R. R. Zürcher[9], N. Hadjikhani[10], A. Reymond[11], R. L. Buckner[12,13,14], B. Draganski[7] and S. Jacquemont[15], (1)Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland, (2)CHU Sainte-Justine Research Center, Université de Montréal, Montreal, QC, Canada, (3)Harvard University, Cambridge, MA, (4)CHU Sainte Justine, University of Montreal, Montreal, QC, Canada, (5)Service de Génétique Médicale, Lausanne University Hospital, Pully, SWITZERLAND, (6)Genetics, University of Lausanne, Lausanne, Switzerland, (7)Department for Clinical Neurosciences, University of Lausanne, Lausanne, Switzerland, (8) Service of Medical Genetics, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland, (9)Swiss Federal Institute of Technology (EPFL), Lausanne, SWITZERLAND, (10)Martinos Center for Biomedical Imaging, Charlestown, MA, (11)University of Lausanne, Lausanne, SWITZERLAND, (12)Department of Radiology, Harvard Medical School, Boston, MA, (13)Psychology Department, Harvard University, Boston, MA, (14)Center for Brain Sciences, Harvard University, Cambridge, MA, (15) University of Montreal, Montreal, QC, CANADA

## Poster Session

109 - Interventions - Non-pharmacologic - Preschool
12:00 PM - 1:40 PM - Golden Gate Ballroom

172 109.172 A Longitudinal Analysis of Parent Responsiveness Following Intervention M. DuBay[1], A. Alzamel[2], T. Uzonyi[3], S. W. Nowell[4], L. Turner-Brown[5], L. R. Watson[6] and E. Crais[6], (1)University of North Carolina at Chapel Hill, Durham, NC, (2)Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)University of North Carolina - Chapel Hill, Chapel Hill, NC, (5)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC, (6)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

173 109.173 A Meta-Analysis of Pivotal Response Treatment As an Early Naturalistic Developmental Behavior Intervention for Autism R. M. Klinkel[1] and G. L. Lyons[2], (1)STAR Center for ASD and NDDs, University of California San Francisco, San Francisco, CA, (2)STAR Center, UCSF, San Francisco, CA

174 109.174 AAC: Attention, Exploration and Response in Children with Autism V. Rose[1], D. Trembath[2], J. M. Paynter[3] and D. Keen[4], (1) Menzies Health Institute, Griffith University, Southport, Australia, (2) Menzies Health Institute, Griffith University, AUSTRALIA, (3)School of Applied Psychology, Griffith University, Southport, Australia, (4)Griffith University, Mt Gravatt, AUSTRALIA

175 109.175 An Analysis of Changes in Child Behavior during Esdm Parent Coaching M. L. Rocha[1], A. C. Stahmer[1], D. K. Cain[2], L. A. Vismara[3], G. Dawson[4] and S. J. Rogers[1], (1)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (2) Human Ecology, UC Davis MIND Institute, Davis, CA, (3)York University, Sacramento, CA, (4)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC

176 109.176 An Examination of the Social Validity of Jumpstart, an Education and Training Program for Parents of Children with Autism Spectrum Disorder J. A. Muhlenkamp[1], K. Hale[1], R. Tewksbury[1], S. Zwicker[1], A. Gonzales[1], B. C. Orr[2], B. Harris[1], N. L. Matthews[3] and C. J. Smith[3], (1)Southwest Autism Research and Resource Center, Phoenix, AZ, (2)Southwest Autism Research & Resource Center (SARRC), Phoenix, AZ, (3)Southwest Autism Research & Resource Center, Phoenix, AZ

177 ▸ 109.177 Autism Spectrum Disorder and Early Intervention Services in New Jersey from 2006-2012 J. Shenouda[1], K. Sidwell[2], J. Solis[3], J. Howell[4] and W. W. Zahorodny[5], (1)Pediatrics, Rutgers University - NJ Medical School, Newark, NJ, (2)Rutgers University, Great Meadows, NJ, (3)Rutgers University - New Jersey Autism Study, Elizabeth, NJ, (4)Pediatrics, Rutgers - NJ Medical School, Newark, NJ, (5) New Jersey Medical School, Westfield, NJ

178 109.178 Characterizing Children with Autism Spectrum Disorder (ASD) Who Respond to a Gluten-Free Casein-Free (GFCF) Diet S. N. Brasher[1], N. Worthington[2] and J. Elder[3], (1)Emory University, Atlanta, GA, (2)Worthington Pediatrics, Gainesville, FL, (3)College of Nursing University of Florida, Gainesville, FL

179 109.179 Evaluation of the Autism Distance Education Parent Training (ADEPT) Program in Boise, Idaho E. Harlan Drewel, St. Luke's Children's Hospital, Boise, ID

180 109.180 Examining Fidelity of Implementation in a Naturalistic Developmental Behavioral Intervention in Community Settings: The Influence of Provider Characteristics S. Arbiv[1], K. S. Dickson[2], S. R. Rieth[3] and A. C. Stahmer[4], (1)University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)San Diego State University, San Diego, CA, (4)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

181 109.181 Exportable Communication Intervention for Classroom Staff Serving Children with Autism Spectrum Disorder: Towards Improving the Feasibility of Evidence-Based Practices in Community Settings G. M. Tiede[1] and K. M. Walton[2], (1)The Ohio State University, Columbus, OH, (2)Psychology & Psychiatry, The Ohio State University, Columbus, OH

182 ▸ 109.182 Home-Based Play Routines in Low-Resourced Families of Young Children with ASD: Parent Strategy Implementation Y. C. Chang[1], W. I. Shih[2] and C. Kasari[2], (1)California State University, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA

183 109.183 Imitation in Improvisational Music Therapy Supports Engagement in Children Autism Spectrum Disorder D. Casenhiser[1] and J. A. Carpente[2], (1)Audiology & Speech Pathology, University of Tennessee Health Science Center, Knoxville, TN, (2)Rebecca Center for Music Therapy at Molloy College, Rockville Centre, NY

184 109.184 Impact of Early Childhood Intervention Programme (Developmental Journal VI) on Behaviour Difficulties in 3 Year Old Children with Severe Visual Impairment 'at High Risk' for ASD N. Dale[1], E. Sakkalou[2], M. O'Reilly[3] and A. Salt[4], (1)Great Ormond Street Hospital NHS Foundation Trust, London, United Kingdom, (2)Clinical Neurosciences, UCL Great Ormond Street Institute of Child Health, London, United Kingdom, (3)UCL Institute of Child Health, London, UNITED KINGDOM, (4)Great Ormond Street Hospital for Children, London, UNITED KINGDOM

185 109.185 Intervention in the Community for Toddlers with ASD: Paraprofessionals' Ratings of Implementation Complexity and the Association with Observed Intervention Implementation M. Pizzano[1], S. Y. Shire[2], M. Kodjoe[3], S. Bracaglia[3] and C. Kasari[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)New York Center for Child Development, New York, NY

186 109.186 Meta-Analysis on Technology-Based Versus Non-Technology Based Social Communication Interventions for Children with ASD E. Kwok, J. Holt-Ulacia and J. Oram Cardy, Western University, London, ON, Canada

187 109.187 Occupational Performance Coaching Via Telehealth: A 12-Week Intervention for Families of Children with Autism Spectrum Disorders A. Wallisch, L. Little, E. Pope and W. Dunn, University of Kansas Medical Center, Kansas City, KS

188 109.188 Outcomes for ASD Children with Feeding Problems in a Community Mental Health Setting D. N. Top[1], N. C. Russell[1], H. Rimmasch[2] and M. South[3], (1)Brigham Young University, Provo, UT, (2)Wasatch Mental Health, Provo, UT, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

189 109.189 Outcomes of a Low-Intensity Early Behavioral Intervention Among Japanese Preschoolers with Autism Spectrum Disorders: A 1-Year Follow-up H. Haraguchi[1], M. Inoue[2], F. Noro[3], A. Stickley[4], A. Miyake[5] and Y. Kamio[6], (1)National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan, Tokyo, Japan, (2)Tottori University, Yonago, Tottori, JAPAN, (3)University of Tsukuba, Tsukuba, Japan, (4)Stockholm Center for Health and Social Change (Scohost), Södertörn University, Huddinge 141 89, Sweden, (5) National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan, Yokohama City, JAPAN, (6)Department of Child and Adolescent Mental Health, National Institute of Mental Health, National Center of Neurology and Psychiatry, 4-1-1 Ogawahigashicho, Kodaira, Tokyo, Japan

190 109.190 Parent Training Via Telehealth for Children with Autism Spectrum Disorder and Disruptive Behavior: A Demonstration Pilot K. Bearss[1], T. L. Burrell[2], V. Postorino[2], S. Gillespie[3] and L. Scahill[2], (1) Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (2)Marcus Autism Center, Atlanta, GA, (3)Emory University School of Medicine, Atlanta, GA

191 ▸ 109.191 Parent-Based Intervention Therapy for Autism Spectrum Disorder A. Deshpande[1], N. Ramamoorthy[1], M. Bhargavi[1], A. Jayaraman[2] and N. N. Mundkur[3], (1)Sangamitra, Bangalore, India, (2) Center for Child Development and Disabilities, Bangalore, India, (3)Centre for Child Development and Disabilities, bengaluru, INDIA

192 109.192 Parent-Child Group Intervention for Young Children with ASD C. Colombi[1] and A. M. Fish[2], (1)University of Michigan, Ann Arbor, MI, (2)Psychiatry, University of Michigan, Ann Arbor, MI

193 109.193 Parental Perspectives on Parent-Mediated Intervention for Toddlers Suspected of Autism Spectrum Disorder to Support Parent during the Waiting Period Surrounding the Diagnostic Evaluation A. J. Beaudoin[1], M. Couture[2] and G. Sébire[3], (1)Université de Sherbrooke, Québec, QC, CANADA, (2)Rehabilitation, Universite de Sherbrooke, Sherbrooke, QC, CANADA, (3)Pediatrics, McGill University, Montréal, QC, Canada

194 109.194 Pilot Study of a Comprehensive Psychosocial Summer Treatment for Young Children with HFASD C. A. McDonald[1], M. L. Thomeer[2], C. Lopata[2], J. P. Donnelly[2], J. D. Rodgers[2] and A. K. Jordan[3], (1)Institute for Autism Research, Canisius College, Buffalo, NY, (2)Canisius College, Institute for Autism Research, Buffalo, NY, (3) Counseling, School, and Educational Psychology, University at Buffalo, SUNY, Buffalo, NY

195 109.195 Real-World Conversational Turn-Taking: An Exploratory Study of Preschoolers with ASD, Teachers, and Peers T. Liu[1], S. Regan[2], E. Ferguson[3], L. Bateman[3], A. S. Nahmias[4], D. S. Mandell[2], R. T. Schultz[5] and J. Parish-Morris[6], (1)Rice University, Houston, TX, (2)University of Pennsylvania, Philadelphia, PA, (3)The Center for Autism Research/ CHOP, Philadelphia, PA, (4)University of California Los Angeles, Los Angeles, CA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA

196 109.196 Reduced Anxiety Following Pivotal Response Treatment in Young Children with Autism Spectrum Disorder J. Lei, D. G. Sukhodolsky, S. M. Abdullahi, M. L. Braconnier, C. Kautz and P. E. Ventola, Yale Child Study Center, New Haven, CT

197 109.197 Role and Predictors of Therapeutic Alliance in a Parent-Mediated Intervention for Autism C. A. Taylor[1], R. Emsley[1], P. Callery[1], J. Marshall[2], J. Green[1] and .. PACT Consortium[3], (1)University of Manchester, Manchester, United Kingdom, (2)Manchester Metropolitan University, Manchester, United Kingdom, (3)United Kingdom

198 ▸ 109.198 Scoping the Evidence of the National Autistic Society (NAS) Early Bird Parent Education Training Programmes J. J. Dawson-Squibb[1], E. L. Davids[2] and P. J. de Vries[1], (1)Division of Child & Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa, (2)Adolescent Health Research Unit, Division of Child and Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

199 109.199 Social Responsiveness Gains and Predictors of Outcome Associated with Social Pivotal Response Treatment for Toddlers with ASD: Results of an Ongoing RCT A. Barrett[1], A. Navab[1], J. Ko[1], E. McGarry[1], J. Bradshaw[2], T. Vernon[1], E. J. Horowitz[3] and T. German[3], (1)University of California Santa Barbara, Santa Barbara, CA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (3)UCSB Department of Psychological and Brain Sciences, Santa Barbara, CA

200 109.200 Tailoring an Evidence-Based Practice to Parents Raising Preschoolers with Autism: Strengths, Challenges, and Future Research Directions S. Dababnah[1], E. M. Olson[2], S. Huntington[3] and M. Sermon[1], (1)University of Maryland, Baltimore, Baltimore, MD, (2) Providence Autism Center, Providence Regional Medical Center Everett, Everett, WA, (3)Onslow County Partnership for Children, Jacksonville, NC

201 ▸ 109.201 Teacher Perceptions and the Implementation of Jasper for Students with ASD J. Panganiban[1], S. Y. Shire[1], Y. C. Chang[2], W. I. Shih[3] and C. Kasari[3], (1)University of California Los Angeles, Los Angeles, CA, (2)California State University, Los Angeles, CA, (3) University of California, Los Angeles, Los Angeles, CA

202 109.202 Telehealth Delivery of a Caregiver-Mediated Intervention for Minimally Verbal Children with ASD R. Yosick[1], W. Walton[1], B. Kansal[1] and C. Delfs[2,3], (1)Marcus Autism Center, Atlanta, GA, (2)Pediatrics, Emory School of Medicine, Atlanta, GA, (3)Language and Learning Clinic, Marcus Autism Center, Atlanta, GA

203 109.203 The Effectiveness of an Intensive Training Program on ORAL Productions on Children with Autism Spectrum Disorder R. Loureiro, A. L. Cunha Lopes, M. Lopes, F. Nunes, R. Vieira, S. Charrua and I. Costa, Instituto do Desenvolvimento, Oporto, Portugal

204 109.204 The Pediatric Developmental Passport: How to Ensure Our Families Are Accessing the Right Care E. Young[1], R. Aiyadurai[2], . Jegathesan[1], N. Bechard[3], C. R. Brown[4], U. M. Cellupica[5], K. Dillon[6], J. Huber[7], R. Minhas[2] and J. Maguire[2], (1)St. Michael's Hospital, Toronto, ON, CANADA, (2)St. Michael's Hospital, Toronto, ON, Canada, (3) University of Toronto, Toronto, ON, Canada, (4)University of Ottawa, Ottawa, ON, Canada, (5)Children's Treatment Network of Simcoe York, Richmond Hill, ON, CANADA, (6)Children's Treatment Network of Simcoe York, Richmond Hill, ON, Canada, (7)University of Toronto, Toronto, CANADA

205 109.205 The Relationship Between Duration and Outcomes in Young Children on the Autism Spectrum Using a Specialised Intervention A. Mazzoni[1], V. Eapen[2] and R. Grove[3], (1)University of New South Wales, Sydney, Australia, (2)Academic Unit of Child Psychiatry South West Sydney (AUCS), Liverpool, Australia, (3)The University of New South Wales, Sydney, Australia

206 109.206 The Relationship Between Intervention Fidelity and Child Social Communication Gains in a Parent-Mediated Intervention. K. M. Frost and B. Ingersoll, Michigan State University, East Lansing, MI

207 109.207 Umbrella Review: Systematic Reviews of Psychosocial Interventions for Children with Autism Spectrum Disorder E. Gange[1], K. Seatter[2] and V. R. Smith[1], (1)Educational Psychology, University of Alberta, Edmonton, AB, CANADA, (2)Educational Psychology, University of Alberta, Edmonton, AB, Canada

208 109.208 Using Engaging Social Interactions within a Pivotal Response Treatment Framework to Improve Adaptive Communication Skills and Autism Symptom Severity in Toddlers with ASD: Evidence from a Randomized Controlled Trial E. McGarry[1], L. Hughart[1], A. Barrett[1], J. Ko[1], A. Navab[1], J. Bradshaw[2], E. J. Horowitz[3], T. German[3] and T. Vernon[1], (1)University of California Santa Barbara, Santa Barbara, CA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (3)UCSB Department of Psychological and Brain Sciences, Santa Barbara, CA

209 109.209 Visual Pattern As a Secondary 'Biologically-Oriented' Outcome in the Field of Early Intervention of the Autism Spectrum Disorder: Can the Eye-Tracker Provide Useful Suggestions? A. Narzisi[1], L. Billeci[2], S. Calderoni[3], G. Campatelli[4], F. Fulceri[3] and F. Muratori[5], (1)IRCCS Stella Maris Foundation, Pisa, Italy, (2)IRCCS Stella Maris Foundation, Calambrone, Pisa, ITALY, (3)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (4)IRCCS Foundation Stella Maris, Pisa, Italy, (5)Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy

210 109.210 Group-Based Interventions for Parents of Children with ASD: Impact on Psychological and Physiological Outcomes S. Iadarola[1], K. Mustian[2], M. Porto[3] and T. Smith[3], (1)University of Rochester Medical Center, Fairport, NY, (2)Surgery, University of Rochester Medical Center, Rochester, NY, (3)University of Rochester Medical Center, Rochester, NY

211 109.211 Child Outcomes and Behavioral Predictors of Treatment Response for Pivotal Response Treatment G. W. Gengoux[1], J. M. Phillips[1], C. Ardel[1], M. E. Millan[1], R. K. Schuck[1], T. W. Frazier[2] and A. Y. Hardan[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)Cleveland Clinic Center for Autism, Cleveland, OH

212 109.212 Treatment Adherence and Dose As Predictors of Child Language Outcomes in Pivotal Response Group Parent Training . A. Minjarez[1], J. Liang[2] and T. W. Frazier[3], (1)Seattle Children's Autism Center, Seattle, WA, (2)PGSP-Stanford PsyD Consortium, Palo Alto, CA, (3)Cleveland Clinic Center for Autism, Cleveland, OH

213 109.213 Structural Neuroimaging Predictors of Benefits from Pivotal Response Treatment J. P. Hegarty II[1], G. W. Gengoux[1], J. M. Phillips[1], S. Tanaka[1], T. W. Frazier[2], A. L. Reiss[1] and A. Y. Hardan[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)Cleveland Clinic Center for Autism, Cleveland, OH

214 109.214 Neural Predictors and Neural Pathway of Response to Pivotal Response Treatment in Young Children with Autism D. Yang[1,2], K. A. Pelphrey[1,2], D. G. Sukhodolsky[3] and P. E. Ventola[3], (1)Autism and Neurodevelopmental Disorders Institute, The George Washington University, Washington, DC, (2)Children's National Health System, Washington, DC, (3)Yale Child Study Center, New Haven, CT

215 109.215 Outcomes for Children Receiving the Early Start Denver Model in a Mainstream Versus Autism-Specific Setting: A Pilot Randomized Controlled Trial G. Vivanti[1], E. Duncan[2], K. Hudry[3] and C. Dissanayake[4], (1)AJ Drexel Autism Institute, Philadelphia, PA, (2) Community Children's Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, Melbourne, AUSTRALIA, (4) School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

216 109.216 Preschool Early Intervention Outcomes in Different Community Based Settings A. S. Nahmias[1] and D. S. Mandell[2], (1) University of California Los Angeles, Los Angeles, CA, (2)University of Pennsylvania, Philadelphia, PA

217 ▸ 109.217 Child and Parental Factors Associated with Preschool Placement in an Urban Early Intervention Setting S. R. Crabbe[1], A. S. Nahmias[2], H. J. Nuske[1] and D. S. Mandell[1], (1) University of Pennsylvania, Philadelphia, PA, (2)University of California Los Angeles, Los Angeles, CA

218 109.218 Impact of Challenging Behavior, Inhibition, and Emotion Regulation Skills on Developmental Outcomes in Preschoolers with Autism H. J. Nuske[1], A. S. Nahmias[2], B. E. Yerys[3], J. R. Bertollo[3], L. Antezana[4], S. R. Crabbe[1], K. Rump[1] and D. S. Mandell[1], (1)University of Pennsylvania, Philadelphia, PA, (2)University of California Los Angeles, Los Angeles, CA, (3)The Center for Autism Research/CHOP, Philadelphia, PA, (4)Virginia Tech, Blacksburg, VA

## Poster Session
110 - Social Cognition and Social Behavior I
12:00 PM - 1:40 PM - Golden Gate Ballroom

219 110.219 Parental Attitudes Towards Touch Screen Device Use in Children with an Autism Spectrum Disorder. S. M. James[1], J. Kaufman[1], C. E. Wood[1] and R. Giallo[2], (1)Swinburne University, Melbourne, Australia, (2)Healthy Mothers Healthy Families Research Group, Murdoch Childrens Research Institute, Parkville, Australia

220 110.220 Parental and Teacher Reports of Social Skills and Problem Behaviours in Children with Autism Spectrum Disorder M. Clark[1], J. Barbaro[2] and C. Dissanayake[3], (1)Kingsbury Drive Bundoora, La Trobe University, Melbourne, VIC, Australia, (2)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia, (3)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

221 110.221 Patterns of Visual Engagement Identify Distinct Subgroups of School-Age Children with ASD J. R. Yurkovic[1], S. Gillespie[2], W. Jones[3], A. Klin[3] and S. Shultz[4], (1)Marcus Autism Center, Atlanta, GA, (2)Emory University School of Medicine, Atlanta, GA, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

222 110.222 Perceptions and Experiences of Friendship and Loneliness in Adolescent Males with High Cognitive Ability and Autism Spectrum Disorder A. Berns[1], S. Assouline[2], W. Liu[1] and G. Jones[1], (1) University of Iowa, Iowa City, IA, (2)Belin-Blank International Center for Talented and Gifted Education, University of Iowa, Iowa City, IA

223 110.223 Phenotype and Eye Tracking Heritability in Twin Pairs M. Reid[1], J. N. Constantino[2], A. Klin[3], W. Jones[3] and C. Klaiman[4], (1)Marcus Autism Center, Atlanta, GA, (2)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

224 110.224 Play Ball!: Long-Term Sports Participation Is Associated with More Behavioral Regulation in Children with Autism Spectrum Disorder J. N. Phung[1] and W. A. Goldberg[2], (1)University of California, Irvine, Irvine, CA, (2)Psychology and Social Behavior, University of California, Irvine, Irvine, CA

225 110.225 Poor Sleep Quality Is Associated with Discordant Peer Relationships Among Adolescents with Autism Spectrum Disorder J. N. Phung[1,2] and W. A. Goldberg[3], (1)University of California Irvine, Irvine, CA, (2)University of California, Irvine, Irvine, CA, (3)Psychology and Social Behavior, University of California, Irvine, Irvine, CA

226 110.226 Positive Correlation Between Global and Fine Social Perception in Children with ASD: An Eye-Tracking Study E. Rechtman[1], E. Douard[1], A. Vincon-Leite[1], A. Philippe[2], N. Chabane[3], H. Lemaître[4], J. M. Tacchella[1], F. Brunelle[1], N. Boddaert[1], A. Saitovitch[1] and M. Zilbovicius[1], (1)INSERM U1000, Institut Imagine, Paris, France, (2)UMR 1163, Institut Imagine, Paris, France, (3)INSERM U1000, Paris, France, (4)INSERM U1000, Institut Imagine, Université Paris Sud, Paris, France

227 110.227 Positive, Negative, and Other Emotions in Young Autistic Children: The Importance of Context C. Jacques[1], V. Courchesne[2], S. Mineau[3], C. Cimon-Paquet[4], J. Degré-Pelletier[3], S. Pelletier[5], G. Thermidor[3], L. Mottron, M.D.[3] and M. Dawson[6], (1) Université du Québec en Outaouais, Gatineau, QC, Canada, (2)University of Montreal, Montreal, QC, Canada, (3)University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada, (4)Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Gatineau, QC, CANADA, (5)Centre d'excellence en troubles envahissants du développement de l'Université de Montréal, Montréal, QC, Canada, (6) Centre d'excellence en Troubles envahissants du développement de, Montréal, QC, CANADA

228 110.228 Preliminary Evidence Suggests Specific Impairments in Explicitly-Evoked Social Inferences in Adults and Children with Autism L. A. Harrison[1,2,3], R. P. Spunt[3], E. Kilroy[1,2], A. Concha[2], E. J. Goo[2], C. Butera[2], R. Adolphs[3] and L. Aziz-Zadeh[1,2], (1)Brain and Creativity Institute, Dornsife College of Letters, Arts and Sciences, University of Southern California, Los Angeles, CA, (2)USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (3)Division of Humanities and Social Sciences, California Institute of Technology, Pasadena, CA

229 110.229 Preservation of Emotional Awareness in ASD: A Preliminary Exploration Using the Leas-C A. Keefer[1,2], V. Singh[1], M. G. Pecukonis[3], G. Gauthier[4], S. H. Mostofsky[1,2] and R. A. Vasa[1,2], (1) Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD, (3)Department of Psychology, University of Maryland, College Park, MD, (4)Johns Hopkins University, Baltimore, MD

230 110.230 Prevalence and Frequency of Online Sexual Activity in Adults with ASD S. Nichols[1] and S. Byers[2], (1)ASPIRE Center for Learning and Development, Melville, NY, (2)Psychology, University of New Brunswick, Fredericton, NB, CANADA

231 110.231 Probing Social Motivation Heterogeneity in Young Children B. Thompson[1], D. Baron[2] and C. Holland[2], (1)University of Southern California, Los Angeles, CA, (2)Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA

232 110.232 Quantifying the Dynamic of Visual Exploration of Complex Social Scenes in Children with Autism Spectrum Disorder (ASD) without Any a Priori: An Eye-Tracking Study N. Kojovic[1], M. Franchini[2,3], T. A. Rihs[4], R. K. Jan[4], H. F. Sperdin[5], S. Eliez[6] and M. Schaer[3], (1) Developmental Imaging and Psychopathology Lab, University of Geneva, Geneva, Switzerland, Geneva 1211, Switzerland, (2)Sensorimotor, Affective and Social Development Unit, University of Geneva, Geneva, Switzerland, (3)Developmental Imaging and Psychopathology Lab, University of Geneva, Geneva, Switzerland, (4)Functional Brain Mapping Laboratory, Dept. of Fundamental Neuroscience, University Medical school, Geneva, Switzerland, Geneva, Switzerland, (5)Developmental Imaging and Psychopathology Lab, University of Geneva, Geneva, Switzerland, Geneva, Switzerland, (6)Developmental Imaging and Psychopathology Lab, University of Geneva, Geneva, Switzerland, University of Geneva, Geneva, Switzerland

233 110.233 Ratings of Social Difficulties By IQ in Young Adults with ASD K. Durica[1], M. Murray[1] and A. Pearl[2], (1)Penn State College of Medicine, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA

234 110.234 Ratings of Social Difficulties By IQ in Young Adults with Autism Spectrum Disorder K. C. Durica[1] and M. Murray[2], (1)Penn State Hershey, Hershey, PA, (2)Psychiatry, Penn State College of Medicine, Hershey, PA

235 110.235 Reading Intention in Action: The Case of Autism Spectrum Disorder C. Ansuini[1], J. Podda[1], F. Battaglia[2], A. Cavallo[3], A. Koul[1], M. Pintaudi[4], E. Veneselli[2,4] and C. Becchio[1,3], (1)C'MON Unit, Istituto Italiano di Tecnologia, Genoa, Italy, (2)Child Neuropsychiatric Unit, G. Gaslini Hospital, Genoa, Italy, (3)Department of Psychology, University of Turin, Turin, Italy, (4)DINOGMI, University of Genoa, Genoa, Italy

236 110.236 Reading the Mind in the Eyes: Examining a Large Multicentre Dataset R. Holt[1], M. C. Lai[2], H. L. Hayward[3], E. Loth[4], A. N. Ruigrok[5], M. V. Lombardo[5,6], B. Auyeung[7], D. G. Murphy[8] and S. Baron-Cohen[5], (1)Autism Research Centre, University of Cambridge, Cambridge, UNITED KINGDOM, (2)Psychiatry, University of Toronto, Toronto, ON, CANADA, (3)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (6)University of Cyprus, Nicosia, Cyprus, (7)University of Edinburgh, Edinburgh, United Kingdom, (8)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

237 110.237 Recounting Basic and Self-Conscious Emotional Experiences in Children with and without Autism Spectrum Disorders D. Davidson[1], E. Hilvert[2], J. Sherman[3], M. Giordano[1] and I. Misiunaite[1], (1)Loyola University Chicago, Chicago, IL, (2)Loyola University, Chicago, IL, (3)Psychology, Loyola University Chicago, Chicago, IL

238 110.238 Relationship Between Executive Functioning and Adaptive Functioning within Autism Spectrum Disorder (ASD). S. Barber[1], C. Rhoads[1], M. Frye[1], J. Gerdts[2], A. Wallace[1] and R. Bernier[2], (1)University of Washington, Seattle, WA, (2)University of Washington Autism Center, Seattle, WA

239 110.239 Relationships Between Engagement States and Early Functioning in Children with Autism and Typical Development A. M. Abdelaziz[1], M. Wagner[2], D. A. Fein[3] and L. R. Naigles[3], (1)UCONN, Mansfield Center, CT, (2)University of Connecticut, Storrs, CT, (3) Psychological Sciences, University of Connecticut, Storrs, CT

240 110.240 Same Day, Different Gaze: Task Effects on Eye Gaze to Social Stimuli J. Mertens, E. Zane and R. B. Grossman, FACE Lab, Emerson College, Boston, MA

241 110.241 See No Emo, Hear No Emo, Feel No Emo? the Effect of Seeing Versus Hearing Emotions on Mood in Autism Spectrum Conditions D. M. Berry, Stoke on Trent, Keele University, Staffordshire, England, United Kingdom

242 110.242 Self-Perception and Friendship Relationships of Teenagers with High-Functioning Autism in Mainstream High Schools: A France – Quebec Study. M. Aubineau, Université Toulouse Jean Jaurès, Toulouse, France

243 110.243 Self-Perception of Academic Competency in Autism Spectrum Disorder R. Furlano and E. A. Kelley, Queen's University, Kingston, ON, CANADA

244 110.244 Self-Regulation Strategies during a Delay of Gratification Task: Group Differences in Children with ASD and Typical Development E. A. Bisi, E. F. Geib, B. J. Wilson, R. N. Bassett and S. R. Payne, Seattle Pacific University, Seattle, WA

245 110.245 Sequential Associations Between Caregiver Talk and Child Play in Autism Spectrum Disorder and Typical Development K. Bottema-Beutel[1], C. Malloy[2], B. Lloyd[3], L. Joffe Nelson[4], P. J. Yoder[5] and L. R. Watson[6], (1)Lynch School of Education, Boston College, Chestnut Hill, MA, (2)Boston College, Chestnut Hill, MA, (3) Special Education, Vanderbilt University, Nashville, TN, (4)Division of Developmental Medicine, Boston Children's Hospital, Boston, MA, (5) Vanderbilt University, Nashville, TN, (6)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

246 110.246 Shared Mechanism for Emotion Processing in Adolescents with and without Autism C. Ioannou[1], M. El Zein[1], V. Wyart[1], I. Scheid[2], F. Amsellem[3], R. Delorme[3], C. Chevallier[1] and J. Grèzes[1], (1) Ecole Normale Supérieure, Paris, France, (2)Robert Debre University Hospital, Paris, France, (3)Institut Pasteur, Paris, France

247 110.247 Shared Zones and Autism Spectrum Disorder G. Cowan[1], R. Earl[1], M. Falkmer[2], S. J. Girdler[1], S. L. Morris[3] and T. Falkmer[1], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia, (3)School of Physiotherapy and Exercise Science, Curtin University, Perth, Australia

248 110.248 Social Cognitive Profiles of Adults with Autism and Schizophrenia N. J. Sasson[1], K. E. Morrison[2] and A. Pinkham[2], (1) University of Texas at Dallas, Richardson, TX, (2)The University of Texas at Dallas, Richardson, TX

249 110.249 Social Discounting in Autism Spectrum Disorder K. R. Warnell[1], S. Maniscalco[2], L. Hotz[3], S. Baker[4], L. C. Anderson[2], H. Milhorn[5], M. G. Pecukonis[2], E. Sadikova[2], R. Yi[5] and E. Redcay[2], (1) Department of Psychology, Texas State University, San Marcos, TX, (2) Department of Psychology, University of Maryland, College Park, MD, (3)New York City Department of Health and Mental Hygiene, New York City, NY, (4)Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill, Chapel Hil, NC, (5)Department of Health Education and Behavior, University of Florida, Gainesville, FL

250 110.250 Social Inclusion of Children with ASD Who Have Moderate to Severe Intellectual Disabilities A. Porthukaran[1], J. M. Bebko[2], A. Perry[3] and B. L. Ncube[4], (1)Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, CANADA, (3) Psychology, York University, Toronto, ON, CANADA, (4)York University, York, ON, CANADA

251 110.251 Social Pupillary Response in Children and Adolescents with Autism Spectrum Disorder J. L. Guilfoyle[1], L. N. Mooney[1], M. P. Hong[1], E. Pedapati[2], L. K. Wink[3], K. C. Dominick[4], R. Shaffer[5] and C. A. Erickson[3], (1)Psychiatry, Cincinnati Childrens Hospital, Cincinnati, OH, (2)INSAR Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)Division of Psychiatry, Cincinnati Children's Hospital Medical Center, CINCINNATI, OH, (5)Cincinnati Children's Hospital Medical Center, Harrison, OH

252 110.252 Social Visual Engagement during Dyadic Interaction in Infants with and without ASD I. Stallworthy[1], S. Glazer[2], P. Lewis[1], A. Klin[3], S. Shultz[4] and W. Jones[3], (1)Marcus Autism Center, Atlanta, GA, (2)University of Texas M.D. Anderson Cancer Center, Houston, TX, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

253 110.253 Sport Experiences for Youth with Autism Spectrum Disorder (ASD) and Intellectual Disabilities (ID) S. Ryan[1] and J. A. Weiss[2], (1)York University, Toronto, ON, Canada, (2)York University, Toronto, ON, CANADA

254 110.254 Task Related Differences in the Theory of Mind Profile of School-Aged Children with ASD M. R. Altschuler[1,2] and S. Faja[1], (1) Boston Children's Hospital, Boston, MA, (2)Bates College, Lewiston, ME

255 110.255 The Association Between Theory of Mind, Executive Function and the Symptoms of Autism Spectrum Disorder C. R. Jones[1], E. A. Simonoff[2], G. Baird[3], A. Pickles[4], F. Happé[4] and T. Charman[5], (1) Wales Autism Research Centre, Cardiff University, Cardiff, United Kingdom, (2)Institute of Psychiatry, London, UNITED KINGDOM, (3) Newcomen Children's Neurosciences Centre, Evelina London Children's Hospital at Guy's and St Thomas' NHS Foundation Trust, London, UNITED KINGDOM, (4)King's College London, London, UNITED KINGDOM, (5)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

256 110.256 The Broad Autism Phenotype, Emotion Recognition, and Romantic Relationships R. Jamil and M. N. Gragg, University of Windsor, Windsor, ON, CANADA

257 110.257 The Broader Autism Phenotype As It Relates to Interoception, Alexithymia, and Emotion Processing C. A. Jennings[1] and J. B. Wagner[2], (1)Psychology, The College of Staten Island - CUNY, Staten Island, NY, (2)College of Staten Island, CUNY, Staten Island, NY

258 ▸ 110.258 The Development of Face Expertise in Autism and the Own Race Advantage M. Hanley[1], D. M. Riby[2], M. Hirai[3], T. Yamagata[4], N. Ikeda[3] and H. Shimoizumi[5], (1)South Road, Durham University, Durham, England, United Kingdom, (2)Department of Psychology, Durham University, Durham, United Kingdom, (3)Jichi Medical University, Tochigi, Japan, (4)Jichi Medical University, Shimotsuke, Japan, (5) International University of Health and Welfare, Tochigi, Japan

259 110.259 The Effectiveness of Social Skills Treatment for Adolescents with Autism Spectrum Disorder A. Pulido[1] and A. J. Lincoln[2], (1)Alliant International University, Gardnerville, NV, (2)Alliant International University, San Diego, CA

260 110.260 The Effects of Diagnostic Disclosure, ASD Knowledge, and Peer ASD Symptomology on the Perception of Vignette Characters with ASD C. M. McMahon[1] and L. Arader[2], (1)Department of Social & Behavioral Sciences, Miami University, Hamilton, OH, (2)Department of Psychology, Hamilton College, Clinton, NY

261 110.261 The Evaluation of Guidelines about How Teachers and Parents Can Use the Tablets Effectively for Supporting Children on the Autism Spectrum in the Area of Joint Attention Skills C. Mangafa[1], L. Moody[1], A. Woodcock[1] and A. Woolner[2], (1)Faculty of Arts and Humanities, Coventry University, Coventry, United Kingdom, (2)Ads Reality, London, United Kingdom

262 110.262 The Impact of Socioeconomic Status and Parental Education on I-E Behaviors and Coping Skills in Children with ASD G. Haidar[1] and R. Bernier[2], (1)University of Washington, Seattle, WA, (2) University of Washington Autism Center, Seattle, WA

263 110.263 The Problem of Bullying: Parent, Teacher, and Layperson Perceptions H. E. Morton[1], R. G. Romanczyk[2] and J. Gillis[2], (1)Center for Autism Research, Binghamton, NY, (2)State University of New York at Binghamton, Binghamton, NY

264 110.264 The Relationship Between Executive and Social Functioning in Children with Autism Spectrum Disorders on Parent-Rated Measures T. Torske[1], T. Nærland[2,3], M. G. Oie[4,5] and O. A. Andreassen[3], (1)Child and Adolescents Psychiatric Outpatient Clinic, Vestre Viken Hospital Trust, Bærum, Norway, (2)Oslo University Hospital, Oslo, Norway, (3)NORMENT, KG Jebsen Centre for Psychosis Research, University of Oslo and Oslo University Hospital, Oslo, Norway, (4)The Psychology Department, University of Oslo, Oslo, Norway, (5)Research Department, Innlandet Hospital Trust, Lillehammer, Norway

265 110.265 The Role of Callous- and Unemotional Traits in Emotional Face Processing in Adolescents with ASD or ODD/CD C. C. Bours[1], M. J. Bakker[2], J. Tramper[3], N. N. J. Rommelse[4], J. C. Glennon[5] and J. K. Buitelaar[4], (1)Department of Cognitive Neuroscience, Radboud University Medical Center, Nijmegen, The Netherlands, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (2)Cognitive Neuroscience, RadboudUMC, Nijmegen, Netherlands, (3)Department of Artificial Intelligence, Radboud University, Nijmegen, The Netherlands, Donders Institute for Brain, Cognition and Behavior, Radboud University, Nijmegen, The Netherlands, Nijmegen, Netherlands, (4)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (5) Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands

266 110.266 The Sense of Leading Gaze in Joint Attention O. Grynszpan[1], J. Nadel[2] and J. C. Martin[3], (1)CNRS UMR 7222, Institute of Intelligent Systems and Robotics, University Pierre et Marie Curie, Paris, FRANCE, (2)French National Centre of Scientific Research (CRNS), Paris, FRANCE, (3)LIMSI, Université Paris Sud, Orsay, France

267 110.267 Vicarious Effort-Based Decision-Making in Adults with Autism Spectrum Disorders M. G. Mosner[1], J. K. Kinard[2], S. McWeeny[3], J. Shah[3], C. Damiano[4], M. R. Burchinal[5], H. J. V. Rutherford[6], R. K. Greene[7], M. T. Treadway[8] and G. S. Dichter[7], (1)University of North Carolina - Chapel Hill, Carrboro, NC, (2)Carolina Institute for Developmental Disabilities, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)University of North Carolina, Durham, NC, (5)Data Management and Analysis Center, Frank Porter Graham Child Development Institute, Chapel Hill, NC, (6)Child Study Center, Yale School of Medicine, New Haven, CT, (7)University of North Carolina - Chapel Hill, Chapel Hill, NC, (8)Department of Psychology, Emory University, Atlanta, GA

268 110.268 Web-Based Tool to Assess Social Cognition in Youth with ASD: Reliability and Criterion Validity R. J. Weber[1], E. Kang[1], E. Trimber[1], A. Karls[2], N. M. Russo-Ponsaran[2], C. McKown[2] and M. D. Lerner[1], (1)Stony Brook University, Stony Brook, NY, (2)Rush University Medical Center, Skokie, IL

269 110.269 Young Children's Understanding of Desires and Beliefs: Effects of Autism Spectrum Disorder and Modality on Theory-of-Mind A. A. Hasni[1], L. B. Adamson[1] and D. L. Robins[2], (1)Georgia State University, Atlanta, GA, (2)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

270 110.270 "Friends Are Hard…but It Gets Better": An Examination of the Friendship Experiences of Adolescent Girls and Adult Women with and without Autism F. R. Sedgewick[1], V. Hill[2] and E. Pellicano[1], (1) Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)Psychology and Human Development, UCL Institute of Education, London, United Kingdom

271 110.271 "My Brain Helps Me Think about Stuff": Autistic Children's Understanding of the Brain and Its Role in Behaviour M. J. Bovis[1], E. Pellicano[2,3] and A. Alexander[4], (1)55-59 Gordon Square, Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2) Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (3) School of Psychology, University of Western Australia, Perth, Australia, (4)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, UNITED KINGDOM

272 110.272 "If I Want to Live I Have to Camouflage": Social Camouflaging in Autism Spectrum Conditions (ASC) L. Hull[1], K. V. Petrides[1], C. Allison[2], P. Smith[3], S. Baron-Cohen[2], M. C. Lai[4] and W. Mandy[1], (1)University College London, London, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Autism Research Centre, University of Cambridge, Cambridge, UNITED KINGDOM, (4)Psychiatry, University of Toronto, Toronto, ON, CANADA

273 110.273 Using Eye Tracking to Examine Attention to Social Stimuli and Circumscribed Interests in Girls with ASD C. Harrop[1], S. Zheng[1], S. Nowell[1], D. Jones[1], J. Parish-Morris[2], B. Boyd[1] and N. J. Sasson[3], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Texas at Dallas, Richardson, TX

274 110.274 Social Seeking Behaviour and Its Neurobiological Correlates I. Dubey[1], A. Georgescu[1], K. Vogeley[2], D. Ropar[3] and A. Hamilton[1], (1)Institute of Cognitive Neuroscience, University College London, London, United Kingdom, (2)University Hospital Cologne, Cologne, GERMANY, (3)University of Nottingham, Nottingham, UNITED KINGDOM

275 110.275 Lack of Privileged Access to Awareness for Rewarding Social Scenes in ASD B. Chakrabarti, H. L. Mihaylova, A. T. Haffey and K. Gray, School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom

276 110.276 Incentive Value of Social Signals in Typical Development and Autism. A. Vernetti, T. J. Smith and A. Senju, Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom

277 110.277 Reward Modulates Mimicry-Related Neural Response in Neurotypical but Not Autistic Individuals J. Neufeld[1,2,3], C. T. Hsu[2,3,4] and B. Chakrabarti[3], (1)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (2)Centre for Integrative Neuroscience and Neurodynamics (CINN), University of Reading, Reading, United Kingdom, (3)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (4)Brain, Language, and Computation Lab, Department of Psychology, Pennsylvania State University, University Park, PA

278 110.278 Reduced Looking at Imitative Actions in Young Children with ASD L. Ruta[1,2], F. I. Fama'[1,3], L. M. Spadaro[1,3], C. Carrozza[1,3], E. Leonardi[1,3], F. Marino[1], G. Tartarisco[1], G. Pioggia[4] and B. Chakrabarti[5], (1)Institute of Applied Sciences and Intelligent Systems, "Eduardo Caianiello" (ScienceApp), National Research Council of Italy, Messina, Italy, (2)IRCCS Stella Maris Scientific Institute, Pisa, Italy, (3)University of Messina, Messina, Italy, (4)Institute of Applied Sciences and Intelligent Systems, "Eduardo Caianiello", National Research Council of Italy, Messina, Italy, (5)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom

279 110.279 Patterns of Individual Change in Response to Reciprocal Imitation Training S. Malik[1], C. Oliver[2], C. Stefanidou[3], J. Moss[3], B. Ingersoll[4], A. Wainer[5], L. Kossyvaki[6] and J. McCleery[7], (1) School of Psychology, University of Birmingham, Birmingham, UNITED KINGDOM, (2)School of Psychology, University of Birmingham, Birmingham, United Kingdom, (3)University of Birmingham, Birmingham, UNITED KINGDOM, (4)Michigan State University, East Lansing, MI, (5) Rush University Medical Center, Oak Park, IL, (6)School of Education, University of Birmingham, Birmingham, United Kingdom, (7)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

280 110.280 Intuitive Cooperation in Autism M. Brosnan and C. Ashwin, University of Bath, Bath, UNITED KINGDOM

281 110.281 Preserved Socio-Economic Decision Making in Autism Spectrum Disorder: Evidence from the Ultimatum Game A. M. Acosta Ortiz, S. Reimers and S. B. Gaigg, Psychology, City, University of London, London, United Kingdom

282 110.282 How Accurate Are Adults with Autism in Gauging How Their Personality Traits Are Evaluated By Others? N. J. Sasson[1], A. Pinkham[2], D. J. Faso[3], K. E. Morrison[2] and M. Chmielewski[4], (1) University of Texas at Dallas, Richardson, TX, (2)The University of Texas at Dallas, Richardson, TX, (3)University of Texas at Dallas, Allen, TX, (4) Southern Methodist University, Dallas, TX

283 110.283 The Neural Bases of Social Motivation in Autism Spectrum Disorder during a Real-Time Peer Interaction L. C. Anderson[1], E. Sadikova[1], K. R. Warnell[2], M. G. Pecukonis[1], D. Moraczewski[3] and E. Redcay[1], (1)Department of Psychology, University of Maryland, College Park, MD, (2)Department of Psychology, Texas State University, San Marcos, TX, (3)University of Maryland, College Park, MD

284 110.284 Caregivers and Their Children with Autism Reading Together V. Fleury[1], K. Young[2] and A. Boh[1], (1)University of Minnesota, Minneapolis, MN, (2)University of Minnesota, Hastings, MN

285 110.285 Environmental Impacts on Language Development of Young Children with ASD J. B. Plavnick, Michigan State University, East Lansing, MI

286 110.286 Function-Based Intervention with E-Coaching in Reducing Challenging Behaviors during Home Visits A. Fettig, University of Massachusetts Boston, Boston, MA

287 110.287 The Transformative Learning Experiences of Parents during Parent Education Groups T. Schultz[1] and S. Kucharczyk[2], (1) University of Wisconsin-Whitewater, Whitewater, WI, (2)Curriculum & Instruction, University of Arkansas, Fayetteville, AR

## Oral Session - 1A

112 - Prevalence, Trajectories and Treatment of Medical and Psychiatric Comorbidity
1:45 PM - 2:35 PM - Yerba Buena 3-6

1:45 112.001 Medical Conditions in the First Years of Life Associated with Future Diagnosis of ASD in Children L. A. Croen[1], S. E. Alexeeff[2], V. Yau[3], Y. Qian[2], M. N. Davignon[4], P. M. Crawford[5], F. Lynch[5] and R. L. Davis[6], (1)Kaiser Permanente Division of Research, Oakland, CA, (2)Division of Research, Kaiser Permanente Northern California, Oakland, CA, (3)Kaiser Permanente, Berkeley, CA, (4)Kaiser Roseville Medical Center, Roseville, CA, (5)Center for Health Research, Kaiser Permanente Northwest, Portland, OR, (6)Department of Pediatrics, UTHSC, Memphis, TN

1:57 112.002 Pilot Randomized Control Trial of Cognitive Behavioral Therapy for Insomnia Modified for Families with a Child with Autism Spectrum Disorder M. C. Souders[1], J. E. Connell[2], R. Schaaf[3], C. M. Kerns[4], W. T. Eriksen[5], S. Zavodny[6], R. Sinko[7], L. Guy[8], B. A. Malow[9] and J. Pinto-Martin[6], (1)University of Pennsylvania/The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Drexel University, Philadelphia, PA, (3) Thomas Jefferson University, Phhiladelphia, PA, (4)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (5) University of Pennsylvania School of Nursing, Philadelphia, PA, (6)University of Pennsylvania, Philadelphia, PA, (7)Thomas Jefferson University, Philadelphia, PA, (8)TEACCH Autism Program, University of North Carolina at Chapel Hill, Chapel Hill, NC, (9)Vanderbilt University Medical Center, Nashville, TN

2:09 112.003 Trajectories of Reported Challenging Behaviours Derived from the Aberrant Behavior Checklist in a Cohort of Canadian Children with Autism Spectrum Disorders T. Bennett[1], P. Szatmari[2], E. Duku[3], S. Georgiades[3], I. M. Smith[4], P. Mirenda[5], J. Volden[6], L. Zwaigenbaum[7], M. Elsabbagh[8], W. Ungar[9] and T. Vaillancourt[10], (1)Offord Centre for Child Studies, McMaster University, Hamilton, ON, CANADA, (2)Centre for Addiction and Mental Health, Toronto, ON, CANADA, (3)McMaster University, Hamilton, ON, CANADA, (4)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (5)University of British Columbia, Vancouver, BC, CANADA, (6)University of Alberta, University of Alberta, AB, CANADA, (7)University of Alberta, Edmonton, AB, CANADA, (8)McGill University, Montreal, CANADA, (9)Sick Kids Research Institute, Toronto, ON, Canada, (10)University of Ottawa, Ottawa, ON, CANADA

2:21 112.004 Are Social and Communication Difficulties a Risk Factor for the Development of Social Anxiety? H. Pickard[1], F. Rijsdijk[2], F. Happé[3] and W. Mandy[4], (1)Social, Genetic and Developmental Psychiatry, King's College London, London, United Kingdom, (2)Institute of Psychiatry, KCL, London, UNITED KINGDOM, (3)King's College London, London, UNITED KINGDOM, (4)University College London, London, United Kingdom

## Oral Session - 1B

113 - New Directions in the Pharmacological Treatment of Social Disability in ASD
2:40 PM - 3:30 PM - Yerba Buena 3-6

2:40 113.001 A Randomized Controlled Trial of Riluzole in Autism Spectrum Disorder R. Nicolson[1], T. Bennett[2], O. Akintan[3], C. Harvey[4], J. A. Brian[5], L. Capano[6], C. Hodgins[7], O. Kraus de Camargo[3], D. Mankad[5], A. Ahmad[7], M. Chalupka[8], L. Colli[9], L. Genore[5], A. Greco[8], T. Lui[10], A. Iaboni[5], I. O'Connor[11], D. Odrobina[5], K. Thorpe[12] and E. Anagnostou[12], (1)University of Western Ontario, London, ON, CANADA, (2)Offord Centre for Child Studies, McMaster University, Hamilton, ON, CANADA, (3) McMaster University, Hamilton, ON, Canada, (4)University of Western Ontario, London, ON, Canada, (5)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (6)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (7)Lawson Health Research Institute, London, ON, Canada, (8)McMaster University, Hamilton, ON, CANADA, (9)Psychiatry and Behavioural Neuroscience, McMaster University, Hamilton, ON, CANADA, (10)Holland Bloorview, Toronto, ON, CANADA, (11)McMaster Universtiy-Offord Centre, Dundas, ON, CANADA, (12)University of Toronto, Toronto, ON, Canada

2:52 113.002 A Randomized Controlled Trial of Intranasal Oxytocin in Autism Spectrum Disorder E. Anagnostou[1,2], J. A. Brian[1,2], C. Campo-Soria[3], L. Capano[1,4], A. N. Esler[3], R. Hudock[3], D. Mankad[1,2], M. Penner[1,2], S. Francis[3], L. Genore[2], A. Iaboni[2], D. Odrobina[2], N. Peleg[2], D. Rambeck[3], E. L. Shankland[3], A. Dupuis[1,5] and S. Jacob[3], (1)University of Toronto, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)University of Minnesota, Minneapolis, MN, (4)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (5)The Hospital for Sick Children, Toronto, ON, Canada

3:04 113.003 Intranasal Vasopressin Treatment Improves Social Abilities in Children with Autism K. J. Parker[1], O. Oztan[1], R. A. Libove[1], R. D. Sumiyoshi[1], D. S. Karhson[1], J. Summers[2], K. Hinman[1], K. S. Motonaga[3], L. K. Fung[1], D. S. Carson[1], J. M. Phillips[1], J. P. Garner[4] and A. Y. Hardan[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2) Georgetown University, Washington, DC, (3)Pediatrics, Stanford University, Palo Alto, CA, (4)Comparative Medicine, Stanford University, Stanford, CA

3:16 113.004 Results of a Phase 2 Randomized Double-Blind Placebo Controlled Study (VANILLA) Investigating the Efficacy and Safety of a V1a Antagonist (RG7314) in Adult Men with ASD F. Bolognani[1], M. del Valle Rubido[2], L. Squassante[3], C. Wandel[3], X. Liogier D'ardhuy[4], L. Boak[5], M. Derks[6], H. Kletzl[3], S. L. Lennon-Chrimes[7], L. Murtagh[2], J. Noldeke[8], P. Fontoura[9], O. Khwaja[2] and D. Umbricht[2], (1)Neuroscience, Ophthalmology, and Rare Diseases (NORD) Roche Pharma Research and Early Development Roche Innovation Center Basel, F. Hoffmann - La Roche AG, Basel, Switzerland, (2)F. Hoffmann - La Roche AG, Basel, SWITZERLAND, (3)F. Hoffmann-La Roche Ltd, Basel, Switzerland, (4)Neuroscience, Ophthalmology and Rare Diseases, F. Hoffmann-La Roche Ltd, Basel, Switzerland, (5) F. Hoffmann-La Roche AG, Basel, SWITZERLAND, (6)F. Hoffmann-La Roche Ltd, Welwyn, United Kingdom, (7)Roche Products, Welwyn Garden city, UNITED KINGDOM, (8)Teva Pharmaceuticals, Basel, SWITZERLAND, (9)F.Hoffmann-La Roche, Basel, SWITZERLAND

## Oral Session - 2A

114 - Brain Structure in ASD Across the Lifespan
1:45 PM - 2:35 PM - Yerba Buena 7

1:45 114.001 Altered Structural Connectivity of Language Tracts in 6-Week-Old Infants at High Risk for ASD J. Liu[1], T. Tsang[1], L. P. Jackson[2], C. Ponting[3], S. S. Jeste[4], S. Y. Bookheimer[1] and M. Dapretto[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)Semel Institute, UCLA, Los Angeles, CA, (3) Clinical Psychology, UCLA, Los Angeles, CA, (4)UCLA, Los Angeles, CA

1:57 114.002 Girls and Boys with Autism Spectrum Disorder Relative to Same-Sex Typically Developing Peers Exhibit Distinct Cortical Folding Abnormalities during Late Childhood and Adolescence D. Yang[1,2], S. M. Abdullahi[3], A. Jack[1], P. E. Ventola[3], E. H. Aylward[4], M. Dapretto[5], D. H. Geschwind[5], J. Duncan[6,7], S. J. Webb[8], S. Y. Bookheimer[5], L. Kenworthy[2], J. D. Van Horn[9] and K. A. Pelphrey[1,2], (1)Autism and Neurodevelopmental Disorders Institute, The George Washington University, Washington, DC, (2)Children's National Health System, Washington, DC, (3)Yale Child Study Center, New Haven, CT, (4) Seattle Children's Research Institute, Seattle, WA, (5)University of California, Los Angeles, Los Angeles, CA, (6)Department of Radiology & Biomedical Imaging, Yale University School of Medicine, New Haven, CT, (7)Department of Biomedical Engineering, Yale University, New Haven, CT, (8)University of Washington, Seattle, WA, (9)Laboratory of NeuroImaging, University of Southern California, Los Angeles, CA

2:09 114.003 Longitudinal Pre- and Postnatal Brain Growth Trajectory in ASD: Evidence for a Late Gestation Critical Time Window F. Bonnet-Brilhault[1], T. Rajerison[2], A. Saby[3], M. Guimard-Brunault[3], E. Houy-Durand[1], S. Roux[4] and J. Malvy[1], (1)UMR930, INSERM, Université François –Rabelais de Tours, Tours, France, (2)Child Psychiatry, CRA Aquitaine, Bordeaux, France, (3)CRA Centre Val de Loire, CHRU de Tours, Tours, France, (4)Université François Rabelais de Tours, INSERM U930, Tours, France

2:21 114.004 Amygdala Neuron Number in ASD Is Increased at Pediatric Ages but Decreased By Adulthood T. A. Avino[1], N. Barger[1], M. V. Vargas[1], M. Bauman[1], D. G. Amaral[2] and C. M. Schumann[1], (1)Psychiatry & Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (2)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

## Oral Session - 2B

115 - Neuropathology, Imaging Genetics, and Imaging-behavior Correlations
2:40 PM - 3:30 PM - Yerba Buena 7

2:40 115.001 Sex-Specific Alterations in Motor Network Morphology in Relation to Repetitive Behaviours: A Twin Study E. Cauvet[1], A. Van't Westeinde[2], J. Neufeld[1], K. Mevel[3,4], R. Kuja-Halkola[5], R. Toro[6] and S. Bolte[1,7], (1)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (2)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institute, Stockholm, Sweden, (3)Karolinska Institutet, Stockholm, SWEDEN, (4)Laboratory for the Psychology of Child Development and Education (LaPsyDÉ), CNRS UMR 8240, Sorbonne Paris Cité, GIP Cyceron, Université de Caen Normandie, Université Paris Descartes, Paris, France, Paris, France, (5)Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden, (6)Institut Pasteur, Paris, FRANCE, (7)Stockholm County Council, Stockholm, Sweden, Division of Child and Adolescent Psychiatry, Center for Psychiatry Research, Stockholm, Sweden

2:52 115.002 Autism Risk Gene CNTNAP2 Was Associated with Cingulate Anatomy in Individuals with Autism Spectrum Disorder Y. L. Chien[1], S. S. F. Gau[2] and Y. J. Chen[3], (1)National Taiwan University, Taipai, Taiwan, Taiwan, (2)National Taiwan University Hospital & College of Medicine, Taipei, TAIWAN, (3)National Taiwan University Hospital, Taipei, Taiwan

3:04 115.003 GABA Receptor Binding Density in the Striatum of Individuals with Autism: Novel Findings for Consideration When Designing Human Clinical Autism Studies with Inhibitory Modulators K. Subramanian[1], C. Brandenburg[2] and G. J. Blatt[2], (1)Hussman Institute for Autism, Baltimore, MD, (2)Hussman Institute for Autism, Inc., Baltimore, MD

3:16 115.004 Shared Differences Across Cortical Morphometry Features Associated with Autism Spectrum Disorder
D. Andrews[1], A. Llera[2], M. Gudbrandsen[1], E. Daly[1], A. Marquand[2,3], C. M. Murphy[1,4], M. C. Lai[5,6,7], M. V. Lombardo[5,8], A. N. Ruigrok[5], M. Consortium[9], S. C. Williams[3], E. Bullmore[10], J. Suckling[10], S. Baron-Cohen[5], M. C. Craig[1,4], C. Beckmann[2,11], D. G. Murphy[1,4] and C. Ecker[1,12], (1)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Donders Institute for Brain, Cognition and Behaviour, Radbound University, Nijmegen, Netherlands, (3) Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)National Autism Unit, Bethlem Royal Hospital, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (5)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (6)Child and Youth Mental Health Collaborative at the Centre for Addiction and Mental Health and The Hospital for Sick Children, Department of Psychiatry, University of Toronto, Toronto, Canada, (7)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (8) University of Cyprus, Nicosia, Cyprus, (9)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, London, United Kingdom, (10) Brain Mapping Unit, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (11)Centre for Functional MRI of the Brain, University of Oxford, Oxford, United Kingdom, (12)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany

## Oral Session - 3A

116 - Interventions with Young Children and Parents
1:45 PM - 2:35 PM - Yerba Buena 8

1:45 116.001 Randomised Trial of a Prodromal Intervention for Infants at High Risk for Autism: Longitudinal Outcomes to Age Three Years
J. Green[1], E. Jones[2], T. Gliga[3], M. W. Wan[4], A. Pickles[5], V. Slonims[6], G. Pasco[7], M. Elsabbagh[8], R. Bedford[9], T. Charman[10] and M. H. Johnson[3], (1)University of Manchester, Manchester, England, United Kingdom, (2)Birkbeck, University of London, London, UNITED KINGDOM, (3)Centre for Brain and Cognitive Development, Birkbeck University of London, London, United Kingdom, (4)University of Manchester, Manchester, UNITED KINGDOM, (5)King's College London, London, UNITED KINGDOM, (6)Evelina Children's Hospital Guy's and St Thomas' NHS Foundation Trust, London, UNITED KINGDOM, (7) Institute of Psychiatry, London, UNITED KINGDOM, (8)McGill University, Montreal, CANADA, (9)Kings College, London, UNITED KINGDOM, (10)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

1:57 116.002 Randomized Controlled Trial: Joint Attention Mediated Learning
H. Schertz[1], S. L. Odom[2], K. Baggett[3] and J. Sideris[4], (1)Indiana University, Bloomington, IN, (2)University of North Carolina, Chapel Hill, NC, (3)Mark Chaffin Center for Healthy Development, School of Public Health Division of Health Promotion and Behavior, Georgia State University, Atlanta, GA, (4)Frank Porter Graham Child Development Institute, Chapel Hill, NC

2:09 116.003 Strengthening the Effects of Parent-Delivered Early Start Denver Model: A Randomized Controlled Multisite Trial
S. J. Rogers[1], A. Estes[2], L. A. Vismara[3], D. Senturk[4], F. Whelan[5], J. Munson[6], G. Dawson[7], M. R. Talbott[8], J. N. Greenson[6], C. D. Zierhut[9] and G. S. Young[10], (1)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (2) University of Washington Autism Center, Seattle, WA, (3) Psychiatry and Behavioral Sciences, Emory University, Atlanta, GA, (4)University of California Los Angeles, Los Angeles, CA, (5)Univ. Cal. Los Angeles, Los Angeles, CA, (6)University of Washington, Seattle, WA, (7)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (8)Psychiatry, MIND Institute UCDavis, Sacramento, CA, (9)UC Davis MIND Institute, Sacramento, CA, (10)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

2:21 116.004 Enhancing Social Motivation in Inclusive Settings: Outcomes from a Randomized Controlled Trial for Preschool Children with Autism Spectrum Disorder
G. W. Gengoux[1], J. M. Hopkins[2], R. K. Schuck[1], M. E. Millan[1] and A. Y. Hardan[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)PGSP-Palo Alto University, Palo Alto, CA

## Oral Session - 3B

117 - Important Factors in Early Interventions: Predictors, Sustainability and Follow up
2:40 PM - 3:30 PM - Yerba Buena 8

2:40 117.001 Long-Term Symptom Reduction Following the Preschool Autism Treatment Trial RCT (PACT)
J. Green[1], A. Pickles[2], T. Charman[3], A. Le Couteur[4], K. Leadbitter[5], E. Salomone[6], R. Cole Fletcher[7], H. Tobin[5], I. Gammer[8], J. Lowry[9], G. Vamvakas[10], S. Byford[11], C. R. Aldred[5], V. Slonims[12], H. McConachie[13], P. Howlin[14] and J. Parr[15], (1)University of Manchester, Manchester, United Kingdom, (2)King's College London, London, UNITED KINGDOM, (3)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (5)University of Manchester, Manchester, UNITED KINGDOM, (6)Institute of Psychiatry, London, UNITED KINGDOM, (7) University of Durham, Durham, United Kingdom, (8)Institute of Psychiatry, King's College London, London, UNITED KINGDOM, (9)Newcastle University, IHS, Newcastle Upon Tyne, UNITED KINGDOM, (10)Kings College London, London, United Kingdom, (11)Kings College, London, UNITED KINGDOM, (12)Evelina Children's Hospital Guy's and St Thomas' NHS Foundation Trust, London, UNITED KINGDOM, (13)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (14)King's College London, Institute of Psychiatry, London, UNITED KINGDOM, (15)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom

2:52 117.002 Exploration of Prognostic and Predictive Factors of Outcome in Participants in the Preschool Autism Communication Trial (PACT) V. Slonims[1], A. Le Couteur[2,3], H. McConachie[3], K. Hudry[4], B. Barrett[5], P. Howlin[6] and .. PACT Consortium[7], (1)Evelina Children's Hospital Guy's and St Thomas' NHS Foundation Trust, London, England, United Kingdom, (2) Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Olga Tennison Autism Research Centre, Melbourne, AUSTRALIA, (5)King's Health Economics, Institute of Psychiatry, London, UNITED KINGDOM, (6)King's College London, Institute of Psychiatry, London, UNITED KINGDOM, (7)United Kingdom

3:04 117.003 Comparative Effectiveness of Two Province-Wide Intervention Models for Preschoolers with Autism Spectrum Disorder I. M. Smith[1], W. Ungar[2,3], H. Flanagan[4], B. D'Entremont[5], N. Garon[6], C. Waddell[7], S. E. Bryson[8], P. McDonnell[9], J. den Otter[10], F. Vezina[11] and N. Leger[10], (1)Autism Research Centre, Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (2)Health Policy, Management and Evaluation, University of Toronto, Toronto, ON, Canada, (3)Sick Kids Research Institute, Toronto, ON, Canada, (4)IWK Health Centre, Halifax, NS, CANADA, (5)University of New Brunswick, Fredericton, NB, CANADA, (6)Mount Allison University, Sackville, NB, CANADA, (7)Simon Fraser University, Vancouver, BC, V6B 5K3, CANADA, (8)Dalhousie University, Halifax, NS, CANADA, (9)Psychology, University of New Brunswick, Fredericton, NB, Canada, (10) Education and Early Childhood Development, Gov't of NB, Fredericton, NB, Canada, (11)Health and Wellness, Gov't of NS, Halifax, NS, Canada

3:16 ▸117.004 Sustaining Quality Implementation of a Targeted Social Communication Interventions in Authentic Community Settings: Paraprofessional Implemented Jasper with Toddlers S. Y. Shire[1], W. I. Shih[2], Y. C. Chang[3], S. Bracaglia[4], M. Kodjoe[4] and C. Kasari[2], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)California State University, Los Angeles, CA, (4) New York Center for Child Development, New York, NY

## Oral Session - 4A
118 - Community-based Screening and Detection Methods
1:45 PM - 2:35 PM - Yerba Buena 9

1:45 118.001 Development of a Video-Based Instrument for ASD Screening in Infancy S. Ozonoff[1], G. S. Young[1], A. Belding[2], S. Dvorak[3], A. M. Hill[2], M. M. Hill[2], A. J. Schwichtenberg[4] and J. N. Constantino[5], (1)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (2)UC Davis MIND Institute, Sacramento, CA, (3)Instructional and Educational Technology, UC Davis, Davis, CA, (4)Purdue University, West Lafayette, IN, (5)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO

1:57 118.002 Universal Screening for Autism in a Large Healthcare System: Diagnostic Outcomes after Age Four W. Guthrie[1], M. Gerdes[2], S. E. Levy[3], J. Pandey[1], R. T. Schultz[1] and J. Miller[1], (1)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)The Children's Hospital of Philadelphia, Philadelphia, PA

2:09 ▸118.003 Examining Disparities in Duration of Screening-to-Diagnosis Time in a Multistage, Early Intervention-Based Screening Protocol for ASD M. Feldman[1], L. Buitrago Sandoval[1], A. Eisenhower[1], R. C. Sheldrick[2] and A. S. Carter[1], (1)University of Massachusetts Boston, Boston, MA, (2)Tufts Medical Center, Boston, MA

2:21 118.004 Efficacy of the Social Communication Questionnaire in a Community-Based Sample of Toddlers T. N. Day[1], W. Guthrie[2], C. Nottke[3] and A. M. Wetherby[3], (1)Clinical Psychology, Florida State University, Tallahassee, FL, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Florida State University Autism Institute, Tallahassee, FL

## Oral Session - 4B
119 - Gender Differences in ASD
2:40 PM - 3:30 PM - Yerba Buena 9

2:40 119.001 Gender Differences in ASD through a Developmental PRISM C. Shulman, The School of Social Work, Hebrew University of Jerusalem, Jerusalem, Israel

2:52 119.002 Differences By Gender in Rate of Autism Recurrence I. A. Cox[1], J. A. McGillivray[2], J. Manjiviona[3], D. T. Bulhak-Paterson[4] and M. A. Stokes[5], (1)Schol of Psychology, Deakin University, Burwood, AUSTRALIA, (2)School of Psychology, Deakin University, Burwood, AUSTRALIA, (3)Private Practice, Melbourne, AUSTRALIA, (4)Private Practice, East Malvern, Australia, (5)School of Psychology, Deakin University, Melbourne, Australia

3:04 119.003 Sex Differences in Children Referred for Assessment: Utilizing the Autism Mental Status Exam (AMSE) R. A. Oien[1,2], S. Vambheim[1], A. Nordahl-Hansen[3], L. A. Hart[2], M. Eisemann[1], F. Shic[4] and D. Grodberg[2], (1)Psychology, The Arctic University of Norway, Tromso, Norway, (2)Child Study Center, Yale School of Medicine, New Haven, CT, (3)Special Needs Education, Oslo University, Oslo, NORWAY, (4)Seattle Children's Research Institute, Seattle, WA

3:16 119.004 Sex Differences in Cognitive and Reasoning Abilities Among Preschool and School-Age Autistic Children V. Courchesne[1], D. Girard[2], C. Jacques[3] and I. Soulières[4], (1) University of Montreal, Montreal, QC, Canada, (2)Université du Québec à Montréal, Montreal, QC, CANADA, (3)University of Quebec in Outaouais, Gatineau, QC, Canada, (4)University of Quebec in Montreal, Montréal, QC, Canada

## Oral Session - 5A
120 - Services and Systems for Children and Adults with ASD
1:45 PM - 2:35 PM - Yerba Buena 10-14

1:45 120.001 School and Employment Effects on Pathways to Service Use in Emerging Adults with ASD J. Lai[1] and J. A. Weiss[2], (1)Psychology, York University, Montreal, QC, CANADA, (2)York University, Toronto, ON, CANADA

1:57 120.002 Access to Justice: Legal Professionals' Experience and Knowledge of Autism in Family Courts in England. A. Remington[1], L. Crane[2] and R. George[3], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)Goldsmiths, University of London, London, UNITED KINGDOM, (3)Faculty of Laws, University College London, London, United Kingdom

2:09 ▸120.003 Examining Part C Early Intervention Services for Families with Children at Risk- or with Autism Spectrum Disorder A. Aranbarri[1], M. E. Miller[1], A. C. Stahmer[2] and S. J. Rogers[1], (1) University of California, Davis. MIND Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

2:21 120.004 Impact of State Autism Insurance Mandates on Healthcare Utilization and Insurance Expenditures Among a Commercially Insured Population with Autism Spectrum Disorder in the United States, 2008 – 2012. P. Nichols, C. J. Alverson, D. Christensen, M. Yeargin-Allsopp, K. Nyarko, N. Dowling and S. Grosse, Centers for Disease Control and Prevention (CDC), Atlanta, GA

## Oral Session - 5B

121 - Experiencing Autism as a Family
2:40 PM - 3:30 PM - Yerba Buena 10-14

2:40 121.001 An Update on the Interagency Autism Coordinating Committee and the National Institutes of Health S. Daniels, Office of Autism Research Coordination, Rockville, MD

2:52 121.002 Through Their Eyes: Sisters› Experiences Growing up with a Preverbal Sibling with Autism. G. Pavlopoulou[1] and D. Dimitriou[2], (1)Lifespan Learning and Sleep Lab, UCL, Institute of Education, London, UNITED KINGDOM, (2)UCL, Institute of Education, London, United Kingdom

3:04 121.003 Wellbeing of Parents of Children with Autism Spectrum Disorder: Gender Difference within an Australian Population-Based Sample. M. Seymour[1,2], R. Giallo[2] and C. E. Wood[1], (1)Swinburne University of Technology, Hawthorn, Australia, (2)Healthy Mothers Healthy Families Research Group, Murdoch Childrens Research Institute, Parkville, Australia

3:16 ▸121.004 Compass for Hope: Evaluating the Effectiveness of a Parent Training and Support Program for Children with ASD As a Telehealth Tool G. M. Kuravackel[1], L. A. Ruble[2], A. D. Rodgers[2], A. P. Ables[3], R. J. Reese[4] and M. D. Toland[5], (1) University of Louisville, Louisville, KY, (2)University of Kentucky, Lexington, KY, (3)University of Louisville Autism Center, University of Louisville, Louisville, KY, (4)Educational, School and Counseling Psychology, University of Kentucky, Lexington, KY, (5) Department of Educational, school and Counseling Psychology, University of Kentucky, Lexington, KY

## Keynote Address and INSAR Awards Ceremony Lifetime Achievement Awardee

4:00 PM - 5:30 PM - Yerba Buena 8-9

4:00 Awards Ceremony

4:30 Advocate Awardee Address
Alison Singer

5:00 Lifetime Achievement Awardee Address
Mary Coleman, MD

## Poster Session

124 - Adult Outcome: Medical, Cognitive, Behavioral
5:30 PM - 7:00 PM - Golden Gate Ballroom

1 124.001 Adults with Autism Spectrum Disorder and the Criminal Justice System: An Investigation of Prevalence of Offending, Risk Factors and Gender Differences. C. E. Blackmore[1,2], E. L. Woodhouse[1,2], G. M. McAlonan[2,3], C. E. Wilson[1,2], V. Stoencheva[1,2], D. Robertson[1,2], E. Daly[1,2], P. Q. Deeley[1,2], M. C. Craig[1,2], J. Zinkstok[1,2], D. Spain[1,2], G. Roberts[1,2], N. Gillan[1,2], J. E. Faulkner[1,2], R. H. Wichers[1,2], K. L. Ashwood[1,2], D. G. Murphy[1,2] and C. M. Murphy[1,2], (1)Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2) Behavioural Genetics Clinic, Adult Autism Service, Behavioural and Developmental Psychiatry Clinical Academic Group, South London and Maudsley Foundation NHS Trust, London, United Kingdom, (3) Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

2 124.002 Age-Related Changes in Effortful Processing in Adults with ASD P. S. Powell[1], L. G. Klinger[2] and M. R. Klinger[2], (1)School of Psychology, Georgia Institute of Technology, Atlanta, GA, (2)UNC TEACCH Autism Program, Chapel Hill, NC

3 124.003 An Assessment of the Writing Skills and Writing Self-Efficacy of Autistic College Students and Their Mentors K. Gillespie-Lynch[1], D. DeNigris[2], M. C. Zajic[3], A. Riccio[4] and N. Gaggi[5], (1)College of Staten Island and The Graduate Center, CUNY, Brooklyn, NY, (2)The Graduate Center, CUNY, Jersey City, NJ, (3)University of California at Davis MIND Institute, Davis, CA, (4)Department of Psychology, College of Staten Island and The Graduate Center, CUNY, New York, NY, (5)College of Staten Island; City University of New York, Staten Island, NY

4 124.004 An Examination of Community Participation in Adults Diagnosed with ASD S. L. Brown[1], A. Pearl[2], M. Murray[3] and M. Salzer[4], (1)Penn State College of Medicine, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA, (3)Psychiatry, Penn State College of Medicine, Hershey, PA, (4)Temple University, Philadelphia, PA

5 124.005 Association Between Affective Symptoms and School Bullying Experiences in Adults with Autism Spectrum Disorders B. K. Woodruff[1], J. B. Adams[2], M. Temkit[3] and K. Yost[4], (1)Mayo Clinic Arizona, Scottsdale, AZ, (2)Arizona State University, Tempe, AZ, (3) Research Biostatistics, Mayo Clinic Arizona, Scottsdale, AZ, (4)Health Sciences Research, Mayo Clinic, Rochester, MN

6 124.006 Augmenting Primary Health Care for Adolescents and Adults on the Autism Spectrum with Intellectual Disability A. Urbanowicz[1,2] and N. G. Lennox[1,2], (1)Queensland Centre for Intellectual and Developmental Disability, MRI-UQ, The University of Queensland, South Brisbane, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia

7 124.007 Autism Spectrum Conditions in People Who Died By Suicide in the UK. S. A. Cassidy[1,2,3], L. Bradley[1], G. Richards[2], C. Allison[4], R. O'Connor[5], D. Heming[6], D. Mosse[7] and S. Baron-Cohen[4], (1)Coventry University, Coventry, United Kingdom, (2)University of Cambridge, Cambridge, United Kingdom, (3)Newcastle University, Newcastle, United Kingdom, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (5)University of Glasgow, Glasgow, United Kingdom, (6)Coroners Office, Cambridgeshire and Peterborough, Cambridge, United Kingdom, (7)University of London, London, United Kingdom

8 124.008 Autistic Traits and Suicidal Thoughts, Plans and Self-Harm in Late Adolescence: Population Based Cohort Study I. Culpin[1], B. Mars[1], R. M. Pearson[1], J. Golding[1], I. Bubak[2], P. Carpenter[3], C. Magnusson[2], D. Gunnell[1] and D. Rai[1], (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2) Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (3)BASS Autism Services for Adults, Avon & Wiltshire Partnership NHS Trust, Bristol, United Kingdom

9 124.009 Barriers and Enablers to Success at Work: The Dandelion Program D. Hedley[1], R. Y. Cai[2], M. Uljarevic[2,3], M. Wilmot[1], J. Spoor[4], A. L. Richdale[2] and C. Dissanayake[1], (1)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia, (4) Department of Management & Marketing, La Trobe Business School, La Trobe University, Melbourne, Australia

10 124.010 Building Employer Capacity to Support Meaningful Vocation for People with ASD: A Grounded Theory Study of Multi-Stakeholder Perspectives M. Rashid[1], S. Hodgetts[2], D. B. Nicholas[3], B. M. Di Rezze[4], J. A. Roberts[5], W. Nagib[6] and J. Leo[7], (1)University of Alberta/University of Calgary, Edmonton, AB, Canada, (2)University of Alberta, Edmonton, AB, Canada, (3)University of Calgary, Edmonton, AB, CANADA, (4)McMaster University, Hamilton, ON, CANADA, (5)Blavatnik School of Government, University of Oxford, Oxford, United Kingdom, (6) McMaster University, Hamilton, ON, Canada, (7)Abilities Centre, Whitby, ON, Canada

11 124.011 Building Employers' Capacity to Support Vocational Opportunities for Adults with ASD: A Synthesis Review of Practices, Strategies and Perceptions M. Rashid[1], S. Hodgetts[2] and D. B. Nicholas[3], (1)University of Alberta/University of Calgary, Edmonton, AB, Canada, (2) University of Alberta, Edmonton, AB, Canada, (3)University of Calgary, Edmonton, AB, CANADA

12 124.012 Characteristics and Health Conditions of Publically-Insured Autistic Young Adults T. W. Benevides[1,2], H. J. Carretta[3] and K. Y. Graves[4], (1)Thomas Jefferson University, Philadelphia, PA, (2) Occupational Therapy, Augusta University, Augusta, GA, (3)Florida State University College of Medicine, Tallahassee, FL, (4)Behavioral Sciences and Social Medicine, Florida State University College of Medicine, Tallahassee, FL

13 ▸ 124.013 Characteristics of Adult Females with Autism Spectrum Disorders in a Large Multicultural Sample M. Merino Martinez[1,2], L. Perez de la Varga[3], L. Garrote Petisco[4], C. D'Agostino[5,6], C. Amat[7], A. Vidal[8], O. Camba[1] and L. Peran[7], (1)Autismo Burgos, Burgos, Spain, (2)AETAPI Asociacion de Profesionales de Autismo, Madrid, Spain, (3)Federación Autismo Castilla y León, Castilla y Leon, Spain, (4)Director, Cedin, Valencia, Spain, (5)Yoenfoco, Buenos Aires, Argentina, (6) Mujeres Tea, Buenos Aires, Argentina, (7)Associacio Sindrom d'Asperger, Barcelona, SPAIN, (8)Hospital Clinic Barcelona, Barcelona, Spain

14 124.014 Childhood Theory of Mind and Cognitive Flexibility and Early Developmental Change in Planning Skills Predict Later Behavioural Outcomes in Autistic Adolescents: A 12-Year Prospective Study. L. Kenny[1], S. J. Cribb[2] and E. Pellicano[1,2], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)School of Psychology, University of Western Australia, Nedlands, Australia

15 124.015 Clinical Characteristics of Female Adult Autism Spectrum Disorders (ASD): (I) Development of the Adult ASD Self-Rating Scale (A-ASD) I. Fukunishi, Minato-ku, Minami-Aoyama Antique Street Clinic, Tokyo, Japan

16 124.016 Community and Facility-Based Employment of Adults on the Autism Spectrum J. Rast[1], A. Roux[1], K. A. Anderson[2] and P. Shattuck[1], (1)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA

17 124.017 Comparing Perceptions of Young Adults with Autism and Their Caregivers on Employment and Vocational Rehabilitation Needs J. Albright[1], D. Swain[2], A. Goldstein[1], G. Scalzo[1], S. W. White[1], J. Ernst[3], A. P. Azano[4] and A. Scarpa[2], (1)Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Virginia Tech, Blacksburg, VA, (3)Department of Education, Virginia Polytechnic Institute and State University, Blacksburg, VA, (4)School of Education, Virginia Polytechnic Institute and State University, Blacksburg, VA

18 124.018 Contested Family Perspectives: Implications for Independent Living of Adults with ASD V. D'Astous[1], K. F. Glaser[2] and K. Lowton[3], (1)King's College London, London, England, United Kingdom, (2)King's College London, London, UNITED KINGDOM, (3)University of Sussex, Brighton, United Kingdom

19 124.019 Convergence of Self-Report and Informant Measures of Executive Function for Adults with ASD R. K. Sandercock[1,2], L. G. Klinger[2,3], K. M. Dudley[1,2] and M. R. Klinger[2,4], (1)Department of Psychology & Neuroscience, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3) Department of Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

20 124.020 Correlation of Medical Comorbidities and Medication Use in Adolescents and Adults with Autism Spectrum Disorder D. J. Barnette[1,2], K. Porter[3] and C. Hanks[4], (1)Pharmacy Practice and Science, The Ohio State University, College of Pharmacy, Columbus, OH, (2)The Ohio State University, Columbus, OH, (3)Statistics, The Ohio State University, Columbus, OH, (4)Internal Medicine, The Ohio State University Wexner Medical Center, Hilliard, OH

21 124.021 Criterion-Related Validity of the Theory of Mind Inventory-2 Self-Report Form for Adults with Autism Spectrum Disorder E. T. Crehan[1], R. R. Althoff[2], P. A. Prelock[3] and T. L. Hutchins[4], (1)AARTS Center, Rush University Medical Center, Oak Park, IL, (2)Psychiatry, University of Vermont, Burlington, VT, (3)College of Nursing and Health Sciences, University of Vermont, Burlington, VT, (4)Communication Sciences & Disorders, University of Vermont, Charlotte, VT

22 124.022 Does Baseline Rsa Play a Role in Social Skills and Sensory Sensitivity in Adults with Autism Spectrum Disorders? M. W. Kuiper[1], H. M. Geurts[2] and L. Verhoeven[3], (1)University of Amsterdam, Doorwerth, Netherlands, (2)University of Amsterdam, Amsterdam, NETHERLANDS, (3)Dr Leo Kannerhuis, Doorwerth, NETHERLANDS

23 124.023 Driving Anxiety in Individuals with Autism Spectrum Disorder H. J. Bishop and D. Stavrinos, Psychology, University of Alabama at Birmingham, Birmingham, AL

24 124.024 Driving Performance of Drivers with Autism Spectrum Disorders: A Simulator Study D. Chee[1], H. Lee[1], A. H. Patomella[2] and T. Falkmer[1], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Department of Neurobiology, Karolinska Institutet, Stockholm, Sweden

25 124.025 Evaluating a University Mentoring Program: Outcomes for Students with ASD and Other Disabilities. E. Byrne[1], A. Hillier[1], J. Goldstein[1], L. Tornatore[1], A. Diaz[1], H. Johnson[1], S. Ratliff[1], K. Silva[1] and S. M. Donnelly[2], (1)University of Massachusetts Lowell, Lowell, MA, (2) University of Massachusetts Lowell, Lawrence, MA

26 124.026 Evaluation Adults with an Asd's Perceptions of Employment and Educational Supports L. A. Lowery, Occupational Therapy, University of Missouri, Columbia, MO

27 124.027 Examining Daily Living Skills in Adults with Autism Spectrum Disorder N. Bagatell[1], M. R. Klinger[2], E. Lamarche[3] and L. G. Klinger[2], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3)TEACCH, University of North Carolina at Chapel Hill, Chapel Hill, NC

28 124.028 Examining Environmental Predictors of Social Participation and Service Use for Adults with ASD Using Geographic Information Systems (GIS) D. V. Chan[1], M. R. Klinger[2], K. Adkisson[3] and L. G. Klinger[2], (1)Allied Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3) Duke Behavioral Health and Technology Laboratory, Durham, NC

29 124.029 Executive Function Abilities in Individuals Receiving an Autism Spectrum Diagnosis in Adulthood R. A. Charlton[1], P. Abbott[2], H. Mansour[1] and F. Happé[3], (1)Goldsmiths University of London, London, United Kingdom, (2)Autism Diagnostic Research Centre, Southampton, United Kingdom, (3)King's College London, London, UNITED KINGDOM

30 124.030 Executive Function and Its Relation to Outcomes in Middle Adulthood K. M. Dudley[1], M. R. Klinger[2], J. L. Mussey[3] and L. G. Klinger[2], (1)Department of Psychology & Neuroscience, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3)UNC, Greensboro, NC

31 124.031 Experiences of College Students with Autism Spectrum Disorder: Successes, Struggles, and Needs S. L. Jackson[1], L. A. Hart[1], C. Beyer[1], Z. J. Williams[1], J. T. Brown[2] and F. R. Volkmar[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)College Autism Spectrum, West Hartford, CT

32 124.032 Experiences of Driving in Adults with and without ASD and Their Relationship with Self-Reported Autistic Traits E. Sheppard[1], E. Van Loon[2] and D. Ropar[2], (1)University of Nottingham, Nottingham, England, United Kingdom, (2)University of Nottingham, Nottingham, UNITED KINGDOM

33 124.033 Experiences of Individuals with Autism Spectrum Disorder Who Identify As Lesbian, Gay, Bisexual, Transgender, Queer, Questioning, or Intersexed. A. Hillier[1], N. Gallop[1], E. Mendes[2], A. Nizami[1] and D. OToole[1], (1)University of Massachusetts Lowell, Lowell, MA, (2) Eva Mendes LHMC, NCC, Arlington, MA

34 124.034 Facilitating Success for Students with Autism Spectrum Disorder at University C. Thompson[1,2], T. Falkmer[1,2], S. Bolte[1,3,4] and S. J. Girdler[1,5], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (4)Stockholm County Council, Center for Psychiatry Research, Stockholm, Sweden, (5)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia

35 124.035 Gender-Identity in High-Functioning Individuals with Autism Spectrum Disorder R. M. George[1] and M. A. Stokes[2], (1)Victoria, Deakin University, Burwood, VIC, Australia, (2)School of Psychology, Deakin University, Melbourne, Australia

36 124.036 Getting Autistic People into Work: Evaluation of a Paid Internship Programme for Autistic Graduates A. Remington, E. Roy, R. Sealy and E. Pellicano, Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

37 124.037 Health Service Use and Health Seeking Behaviours of Australian Adults on the Autism Spectrum A. Urbanowicz[1,2], N. G. Lennox[1,2], J. Trollor[2,3] and K. R. Foley[2,3], (1)Queensland Centre for Intellectual and Developmental Disability, MRI-UQ, The University of Queensland, South Brisbane, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)Department of Developmental Disability, Neuropsychiatry (3DN), School of Psychiatry, The University of New South Wales Australia, Sydney, Australia

38 124.038 Impact of Anxiety and Autism Symptomatology on Pragmatic Language in Young Adult Males with Fragile X Syndrome S. M. Matherly[1], J. Klusek[2], J. Roberts[3] and L. Abbeduto[4], (1)University of South Carolina, Columbia, SC, (2)Communication Sciences and Disorders, University of South Carolina, Columbia, SC, (3)Department of Psychology, University of South Carolina, Columbia, SC, (4)M.I.N.D. Institute, UC Davis, Sacramento, CA

39 124.039 Job Satisfaction and Quality of Life in Adults with Autism Spectrum Disorder (ASD) Participating in the Dandelion Program D. Hedley[1], M. Uljarevic[2,3], M. Wilmot[1], J. Spoor[4], A. L. Richdale[2] and C. Dissanayake[1], (1)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2) Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia, (4)Department of Management & Marketing, La Trobe Business School, La Trobe University, Melbourne, Australia

40 124.040 Life after School: Understanding the Transition to Adulthood from the Perspectives of Young Autistic People and Their Parents S. J. Cribb[1], L. Kenny[2] and E. Pellicano[3], (1)School of Psychology, University of Western Australia, Nedlands, Australia, (2) Centre for Research in Autism and Education (CRAE), London, UNITED KINGDOM, (3)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

41 124.041 Lifelong Learning in Autism: A Life History of an Autistic Woman's Learning Journey in Formal and Informal Learning Contexts T. W. Henderson, Giant Steps Montreal, Montreal, QC, Canada

42 124.042 Loneliness and Quality of Life for the Broader Autism Phenotype L. Graham Holmes[1,2], C. J. Zampella[2,3], A. A. Gillespie[1] and M. B. Himle[1], (1)Department of Psychology, University of Utah, Salt Lake City, UT, (2)Child and Adolescent Psychiatry and Behavioral Sciences, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Clinical & Social Sciences in Psychology, University of Rochester, Rochester, NY

43 124.043 Measuring Work Adjustment in Adolescents with ASD L. G. Klinger[1], K. M. Dudley[2], R. K. Sandercock[2] and M. R. Klinger[1], (1)UNC TEACCH Autism Program, Chapel Hill, NC, (2)Department of Psychology & Neuroscience, University of North Carolina at Chapel Hill, Chapel Hill, NC

44 124.044 Money Matters: Risks of Limited Money Understanding Among Adults with ASD K. F. Glaser[1], V. D'Astous[1] and K. Lowton[2], (1) King's College London, London, UNITED KINGDOM, (2)University of Sussex, Brighton, United Kingdom

45 124.045 Mortality and Cause of Death in People on the Autism Spectrum: An Exploration of State-Based Administrative Data. Y. I. (. Hwang[1,2], K. R. Foley[1,2], P. Srasuebkul[1] and J. Trollor[1,2], (1) Department of Developmental Disability, Neuropsychiatry (3DN), School of Psychiatry, The University of New South Wales Australia, Sydney, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia

46 124.046 New Age Vocational Training Program for Adults with Autism: Integration of Soft Skills Training and Software Testing M. Baker-Ericzen[1], M. Fitch[2], M. M. Jenkins[2], R. T. Trefas[3], E. Velazquez[4], M. Kinnear[5] and J. Leon[6], (1)Child and Adolescent Services Research Center, Rady Children's Hospital San Diego, San Diego, CA, (2)Rady Children's Hospital San Diego, San Diego, CA, (3)Research Resources, Rady Children's Hospital San Diego, La Jolla, CA, (4)Child and Adolescent Services Research Center, Rady Children's Hospital, San Diego, CA, (5) San Diego State University, San Diego, CA, (6)Technical Skills Training, National Foundation for Autism Research, San Diego, CA

47 124.047 Parent Preparatory Activities As Adolescents with ASD Transition to Adulthood L. Graham Holmes[1,2] and A. V. Kirby[3], (1) Department of Psychology, University of Utah, Salt Lake City, UT, (2) Child and Adolescent Psychiatry and Behavioral Sciences, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Utah, Salt Lake City, UT

48 124.048 Participation in Recreational Activities Buffers the Impact of Perceived Stress on Quality of Life in Adults with Autism Spectrum Disorder L. Bishop-Fitzpatrick, L. E. Smith, J. S. Greenberg and M. R. Mailick, Waisman Center-University of Wisconsin, Madison, WI

49 124.049 Poor Initiation and Planning Abilities in Young People with Autistic Traits N. Albein-Urios, M. Kirkovski and P. G. Enticott, Deakin University, Geelong, AUSTRALIA

50 124.050 Rates of Autism Spectrum Disorder in Adults with Prader-Willi Syndrome C. Daniell[1], E. Roof[2], H. M. Hunt-Hawkins[2], N. A. Dankner[1], E. B. Lee[1], C. Shivers[3] and E. Dykens[2], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3) Human Development, Virginia Polytechnic Institute and State University, Blacksburg, VA

51 124.051 Ratings of Social Functioning and Participation in Employment and Postsecondary Education Among Adults with Autism and Schizophrenia E. Jarzabek[1,2], K. Ellison[2], Z. J. Williams[1], M. J. Rolison[2], K. A. McNaughton[1], T. C. Day[2], A. Ataybi[3], B. Lewis[4], J. Wolf[1], J. H. Foss-Feig[5], A. Anticevic[6], V. Srihari[6] and J. McPartland[2], (1)Yale Child Study Center, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT, (3)Pediatrics, University of Washington, Seattle, WA, (4)Yale School of Medicine, Darien, CT, (5) Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, (6)Yale University School of Medicine, New Haven, CT

52 124.052 Relating ASD Symptoms to Well-Being: Moving Across Different Construct Levels M. K. Deserno[1], D. Borsboom[2], S. Begeer[3] and H. M. Geurts[4], (1)University of Amsterdam, Amsterdam, Netherlands, (2)Psychology, University of Amsterdam, Amsterdam, Netherlands, (3) VU University Amsterdam, Amsterdam, NETHERLANDS, (4)University of Amsterdam, Amsterdam, NETHERLANDS

53 124.053 Relationship of Executive Functioning Deficits and Life Outcome in Intellectually Able Adults with ASD K. B. Harrison and K. A. Loveland, Psychiatry, University of Texas Health Science Center McGovern Medical School, Houston, TX

54 124.054 Sexual Orientation in High-Functioning Individuals with Autism Spectrum Disorder R. M. George[1] and M. A. Stokes[2], (1)Victoria, Deakin University, Burwood, VIC, Australia, (2)School of Psychology, Deakin University, Melbourne, Australia

55 124.055 Social Cognition in Old Adults with Autism Spectrum Disorder (ASD): A Potential Age-Related Protective Effect E. Yarar[1] and F. Happé[2], (1)King's College London, London, England, United Kingdom, (2)King's College London, London, UNITED KINGDOM

56 124.056 State-Level Variation in Vocational Rehabilitation Services and Outcomes for Transition-Age Youth with Autism A. Roux[1], J. Rast[1], K. A. Anderson[2] and P. Shattuck[1], (1)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (2)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA

57 124.057 The Influence of Depression on Adaptive Behaviors and Quality of Life in ASD Compared to Typically Developing Adults R. N. Crist and K. Gotham, Vanderbilt University, Nashville, TN

58 124.058 The Map Task: A New Assessment of Functional Capacity in Autism S. Mahdavi[1], J. McCauley[2], J. Farren[3], D. McLaughlin[4], T. A. Niendam[5], P. Harvey[6], B. Cornblatt[7] and M. Solomon[3], (1)Department of Psychiatry & Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (2)UC Davis MIND Institute, Sacramento, CA, (3) Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (4)Northwell Health System, Glen Oaks, NY, (5) Department of Psychiatry & Behavioral Sciences, UC Davis, Sacramento, CA, (6)University of Miami, School of Medicine, Miami, FL, (7)Hofstra Northwell School of Medicine, Hempstead, NY

59 124.059 Theory of Mind, Early Social Experiences and the Judgment of Harmfulness and Wrongfulness R. L. Young, Flinders University of South Australia, Adelaide, SA, Australia

60 ▸ 124.060 Transition and Adulthood ASD Survey in Argentina A. Rattazzi[1], N. Barrios[2], S. H. Cukier[1], R. Geloso[3], M. Gotelli[4], F. Satorra[5], K. Solcoff[6], D. Valdez[6,7] and C. Ysrraelit[4], (1)PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Argentina, (2)Fleni, Capital Federal, ARGENTINA, (3)Asociación Asperger Argentina, Buenos Aires, Argentina, (4)Fundación Brincar por un Autismo Feliz, Buenos Aires, Argentina, (5)TGD Padres TEA, Buenos Aires, Argentina, (6)FLACSO, Facultad Latinoamericana de Ciencias Sociales, Buenos Aires, Argentina, (7) Universidad de Buenos Aires, Buenos Aires, Argentina

61 124.061 Using Improv to Facilitate Social Inferencing Skills in Adults with Autism S. Kashinath[1] and C. Byward[2], (1)California State University East Bay, Fremont, CA, (2)Communicative Sciences and Disorders, California State University East Bay, Hayward, CA

62 124.062 What Is Important for Quality of Life in Adolescents and Adults with ASD? Results from a Nation-Wide Danish Follow-up Study. A. Knuppel[1], G. K. Telléus[2] and M. B. Lauritsen[1], (1)Research Unit for Child and Adolescent Psychiatry, Aalborg University Hospital, Aalborg, DENMARK, (2)Unit for Psychiatric Research, Aalborg University Hospital, Aalborg, Denmark

63 124.063 What Skills Should Adaptive Functioning Interventions for Intellectually Able, Transition-Aged Youth Target? an Examination of Caregiver Responses on the Vineland-II N. L. Matthews[1], A. Malligo[2] and C. J. Smith[1], (1)Southwest Autism Research & Resource Center, Phoenix, AZ, (2)Southwest Autism Research and Resource Center, Phoenix, AZ

64 124.064 Young Adults on the Autism Spectrum: College Experiences and Outcomes C. M. Anderson and C. L. Butt, Interprofessional Health Studies, Towson University, Towson, MD

65 124.065 Self-Advocacy and Emerging Adults on the Autism Spectrum V. Paradiz, Valerie Paradiz LLC, Boulder, CO

66 124.066 Family Sex Communication for Young Adults with Autism Spectrum Disorder T. Kozikowski[1] and C. Warren[2], (1)Eastern Virginia Medical School, Norfolk, VA, (2)Organizational Sciences and Communication, The George Washington University, Washington, DC

67 124.067 Sexuality and the Autism Spectrum: Implications for Individuals with the Broad Autism Phenotype L. R. Qualls[1] and K. Hartmann[2], (1)Virginia Consortium Program in Clinical Psychology, Norfolk, VA, (2)Eastern Virginia Medical School, Norfolk, VA

68 124.068 Autism, Sexuality, and the Law: A Case Study S. Carr, Rehabilitation Research and Training Center, Virginia Commonwealth University, Richmond, VA

69 124.069 Problem Solving in Sexuality Education R. L. Loftin[1], A. Burns[2] and E. T. Crehan[1], (1)AARTS Center, Rush University Medical Center, Chicago, IL, (2)AARTS Center, Rush University Medical Centre, Chicago, IL

## Poster Session

125 - Brain Function (fMRI, fcMRI, MRS, EEG, ERP, MEG) I
5:30 PM - 7:00 PM - Golden Gate Ballroom

70 125.070 A Functional MRI Meta-Analysis of Reward and Social Motivation Studies of ASD A. Zoltowski[1], C. C. Clements[1], L. D. Yankowitz[2], R. T. Schultz[3] and J. D. Herrington[4], (1)The Center for Autism Research/CHOP, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadlephia, PA, (3) The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

71 125.071 A Graph Theoretic Examination of Social Brain Networks at Rest in ASD D. Moraczewski[1], D. Levitas[1] and E. Redcay[2], (1) University of Maryland, College Park, MD, (2)Department of Psychology, University of Maryland, College Park, MD

72 125.072 A Novel Electrophysiological Marker of Autism Spectrum Disorder Based on Facial Expression Mental Imagery M. Simoes[1,2], R. Monteiro[1], J. Andrade[1], S. Mouga[1,3], P. Carvalho[2], G. Oliveira[1,3,4] and M. Castelo-Branco[1], (1)Institute for Biomedical Imaging and Life Science, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (2)Center for Informatics and Systems, University of Coimbra, Coimbra, Portugal, (3)Unidade de Neurodesenvolvimento e Autismo, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (4) University Clinic of Pediatrics, Faculty of Medicine, University of Coimbra, Coimbra, Portugal

73 125.073 A Simultaneous EEG, TMS and Eye-Tracking Study Investigating Mirror Neuron System Activity in Adults with Autism Spectrum Disorder When Inferring Intentions. E. J. Cole[1], N. E. Barraclough[1] and P. G. Enticott[2], (1)Psychology, The University of York, York, United Kingdom, (2)Deakin University, Geelong, AUSTRALIA

74 125.074 Age-Related Changes in Auditory Event-Related Potentials Differ Between Typically Developing Toddlers and Those with Autism Spectrum Disorder. R. De Meo[1,2], S. K. Harootonian[1], S. Rivera[1,2,3] and C. Saron[1,2], (1)Center for Mind and Brain, University of California at Davis, Davis, CA, (2)MIND Institute, UC Davis Medical Center, Sacramento, CA, (3)Department of Psychology, University of California at Davis, Davis, CA

75 125.075 Altered Neuromagnetic Evoked Responses and Neural Synchrony Related to Language in Autism Spectrum Disorder A. M. Flores[1], K. McFarlane[1], T. Andersen[1], C. Swick[1], R. Goodcase[1], K. Rusiniak[1], I. Kovelman[2], J. Brennan[2], S. M. Bowyer[3] and R. Lajiness-O'Neill[1], (1)Eastern Michigan University, Ypsilanti, MI, (2)University of Michigan, Ann Arbor, MI, (3)Henry Ford Health Systems, Detroit, MI

76 125.076 An fMRI Investigation of Working Memory in Older Adults with Autism Spectrum Disorder: Fronto-Hippo-Striatal-Thalamic Network Differences B. B. Braden[1], C. J. Smith[2], T. K. Glaspy[3], E. Wood[4], D. Vatsa[5] and L. Baxter[6], (1)Speech and Hearing Science, Arizona State University, Tempe, AZ, (2)Southwest Autism Research & Resource Center, Phoenix, AZ, (3)Tufts University, Boston, MA, (4)Xavier Preparatory Academy, Phoenix, AZ, (5)BASIS Charter School, Scottsdale, AZ, (6)Barrow Neurological Institute, Phoenix, AZ

77 125.077 Applying Regionalized Tessellation to Detect Diagnostic Markers of ASD in Resting EEG Data A. Ataybi[1,2], T. McAllister[3], S. Hasselmo[4], S. A. A. Chang[5], M. J. Rolison[3], T. A. Halligan[4], B. Lewis[6], T. C. Day[7], K. A. McNaughton[3], K. Ellison[4], J. Wolf[8], K. Stinson[9], S. M. Malak[3], J. A. Trapani[3], E. Jarzabek[3], J. McPartland[3] and A. Naples[10], (1)Pediatrics, University of Washington, Seattle, WA, (2)Seattle Children's Innovation & technology Lab, Seattle Children's Research Institute, Seattle, WA, (3)Child Study Center, Yale School of Medicine, New Haven, CT, (4)Child Study Center, Yale University, New Haven, CT, (5)Yale University, New Haven, CT, (6)Yale School of Medicine, Darien, CT, (7) Yale Child Study Center, Yale University, New Haven, CT, (8)Yale Child Study Center, New Haven, CT, (9)Yale University- Child Study Center, Milford, CT, (10)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

78 125.078 Automatic Detection of Emotional Prosody in Children and Adults with Autism Spectrum Disorders M. Gomot, J. Charpentier, J. Malvy, F. Bonnet-Brilhault, E. Houy-Durand and M. Latinus, UMR930, INSERM, Université François –Rabelais de Tours, Tours, France

79 125.079 Comparing fNIRS-Based Cortical Activation Patterns during Interpersonal Synchrony Tasks Between Children with and without Autism M. Hoffman[1], S. Trost[1], M. Culotta[1] and A. N. Bhat[2], (1)Physical Therapy, University of Delaware, Newark, DE, (2)University of Delaware, Newark, DE

80 125.080 Connectome-Wide Network Analysis of Male Youth with Autism Spectrum Disorder with and without Impaired Self-Regulation H. Y. Lin[1], H. C. Ni[2], W. Y. I. Tseng[3] and S. S. F. Gau[1], (1)National Taiwan University Hospital & College of Medicine, Taipei, TAIWAN, (2)Chang Gung Memorial Hospital- Linkou Medical Center, Taipei, Taiwan, (3) National Taiwan University Hospital, Taipei, Taiwan

81 125.081 Development of a Functional Connectivity Optical Imaging Protocol and Analysis Pipeline for Mouse Models of Autism Spectrum Disorder R. Rahn[1], M. Reisman[2], S. Maloney[3], G. Baxter[2], I. Orukari[2], K. B. McCullough[4], J. Dougherty[4] and J. Culver[5], (1)Program in Neuroscience, Washington University in St. Louis, St. Louis, MO, (2)Washington University in St. Louis, St. Louis, MO, (3)Washington University School of Medicine, St. Louis, MO, (4)Genetics, Washington University School of Medicine, St. Louis, MO, (5)Physics, Radiology, and Biomedical Engineering, Washington University in St. Louis, St. Louis, MO

82 125.082 Distinct Patterns of Auditory Evoked Potentials and Trial-By-Trial Neural Synchrony for Speech and Nonspeech Processing in Children with Autism L. Yu[1,2], Y. Fan[3], D. Huang[3], S. Wang[4] and Y. Zhang[5], (1)Speech-Language-Hearing Sciences, University of Minnesota, Minneapolis, MN, (2)Psychology, SOUTH CHINA NORMAL UNIVERSITY, GUANGZHOU, China, (3)Guangzhou Rehabilitation & Research Center for Children with ASD(Guangzhou Cana School), Guangzhou, CHINA, (4)School of Psychology, South China Normal University, Guangzhou, China, (5)Department of Speech-Language-Hearing Science, University of Minnesota, Minneapolis, MN

83 125.083 EEG Data Collection in Challenging Children: The Role of State in Data Quality and Spectral Power C. DiStefano[1], A. H. Dickinson[2] and S. S. Jeste[3], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)UCLA, Los Angeles, CA

84 125.084 EEG Markers of Learning from Joint Engagement in Toddlers at High Risk for Autism Spectrum Disorder E. Pompan[1], A. T. Marin[2], E. Baker[3] and S. S. Jeste[4], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)UCLA Center for Autism Research and Treatment, Anaheim, CA, (4)UCLA, Los Angeles, CA

85 125.085 Early Visual Processing of Faces in Tuberous Sclerosis Complex (TSC) and in Children Showing Early Signs of ASD M. A. Ware[1], A. T. Marin[2], E. Baker[3], K. J. Varcin[4] and S. S. Jeste[5], (1)UCLA Center for Autism Research & Treatment, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)UCLA Center for Autism Research and Treatment, Anaheim, CA, (4)Telethon Kids Institute, Perth, WA, Australia, (5)UCLA, Los Angeles, CA

86 125.086 Electroencephalographic Examination of Resting State Neural Oscillatory Activity in Young Children with Autism Spectrum Disorder J. Rudoler[1], L. A. Wang[2], J. Pandey[1], J. E. Maldarelli[1], T. Vanderwal[3], J. Miller[1], R. T. Schultz[1] and J. McCleery[1], (1)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Child Study Center, Yale School of Medicine, New Haven, CT

87 125.087 Electrophysiological Correlates of Word Segmentation in Three-Month-Old Infants at High and Low Risk for Autism Spectrum Disorder A. T. Marin[1], C. DiStefano[2], K. Visnagra[1], T. Toueg[1], T. Hutman[2], M. Dapretto[1] and S. S. Jeste[3], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)UCLA, Los Angeles, CA

88 125.088 Electrophysiological Markers of ASD in Infants with Tuberous Sclerosis Complex: A Genetics-First Approach to the Search for Predictive Biomarkers K. J. Varcin[1], A. Dickinson[2], J. Frohlich[2], D. Senturk[3], S. Huberty[3], L. M. Baczewski[4], C. A. Nelson[5] and S. S. Jeste[6], (1)Telethon Kids Institute, Perth, Australia, (2)University of California, Los Angeles, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)Boston Children's Hospital Labs of Cognitive Neuroscience, Cambridge, MA, (5)Boston Children's Hospital, Boston, MA, (6)UCLA, Los Angeles, CA

89 125.089 Enhanced Early Visual Responses to Emotional Faces in ASD K. Kovarski[1], R. Mennella[2], S. M. Wong[3], B. T. Dunkley[3], M. J. Taylor[4] and M. Batty[5], (1)UMR 930 INSERM, University of Tours, Tours, France, (2)Department of General Psychology, University of Padova, Padova, Padova, Italy, (3)Hospital for Sick Children, Toronto, ON, Canada, (4)Hospital for Sick Children, Toronto, ON, CANADA, (5) UMR 930 Inserm-Universite Francois Rabelais Tours, Tours Cedex 09, FRANCE

90 125.090 Enzyme Kinetics of N-Acetyl-Aspartylglutamate in the Cingulated Cortices in ASD: A 1H-MRS Model C. D. Jimenez-Espinoza[1], F. Marcano[2] and J. L. González-Mora[2], (1)San Cristobal de La Laguna, University of La Laguna, Santa Cruz de Tenerife, Spain, (2)Physiology, University of La Laguna, Santa Cruz de Tenerife, Spain

91 125.091 Evaluating the Neural Correlates of Intention Understanding in Autism Spectrum Disorder N. I. Berger, B. Ingersoll and M. Pontifex, Michigan State University, East Lansing, MI

92 125.092 Event-Related Potentials Index Atypical Processing of Auditory Tones in Young Children with Autism Spectrum Disorder J. L. Wood[1], L. A. Wang[2], J. Pandey[1], J. E. Maldarelli[1], J. Rudoler[1], R. F. Slomowitz[1], R. T. Schultz[1] and J. McCleery[1], (1)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

93 125.093 Frontal EEG Asymmetry As an Early Marker of Behavior Vulnerability in Infants with Congenital Visual Impairment Who Are at Risk of Autism Spectrum Disorder (ASD) N. Dale[1], M. O'Reilly[2], J. Bathelt[3], E. Sakkalou[4], A. Salt[5] and M. De Haan[2], (1)Great Ormond Street Hospital NHS Foundation Trust, London, United Kingdom, (2)UCL Institute of Child Health, London, UNITED KINGDOM, (3)MRC Cognition and Brain Sciences Unit, University of Cambridge, Cambridge, United Kingdom, (4)Clinical Neurosciences, UCL Great Ormond Street Institute of Child Health, London, United Kingdom, (5)Great Ormond Street Hospital for Children, London, UNITED KINGDOM

94 125.094 Impulse Control Is Differentially Modulated By Social Versus Non-Social Stimuli D. J. Bos[1], E. L. Ajodan[2], M. R. Silverman[1] and R. M. Jones[3], (1)Dept. of Psychiatry, Sackler Institute for Developmental Psychobiology of Weill Cornell Medical College, New York, NY, (2)CADB, Great Neck, NY, (3)Weill Cornell Medical College, White Plains, NY

95 125.095 Increased Connectivity of Voice Processing Brain Networks in Females with Autism: A Preliminary Study of Gender Differences in ASD A. E. Baker[1], A. Padmanabhan[1], D. A. Abrams[1] and V. Menon[2], (1)Stanford University, Palo Alto, CA, (2)Stanford University School of Medicine, Stanford, CA

96 125.096 Investigating Reward Processing in the Longitudinal European Autism Project (LEAP) Cohort with Fmri S. Baumeister[1], C. Moessnang[2], N. Muller[1], S. Hohmann[1], D. Goyard[3], S. Baron-Cohen[4], S. Durston[5], A. M. Persico[6], W. Spooren[7], D. G. Murphy[8], E. Loth[9], J. K. Buitelaar[10], H. Tost[2], D. Brandeis[1,11,12,13], A. Meyer-Lindenberg[14] and T. Banaschewski[15], (1)Department of Child and Adolescent Psychiatry and Psychotherapy, Central Institute of Mental Health, Mannheim, Germany, (2)Department of Psychiatry and Psychotherapy, Central Institute of Mental Health, University of Heidelberg, Mannheim, Germany, (3)Neurospin, CEA, Université Paris-Saclay, Gif sur Yvette, France, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (5)Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, NETHERLANDS, (6)University of Messina, Rome, ITALY, (7)Roche Pharmaceutical Research and Early Development, NORD Discovery and Translational Area, Roche Innovation Center, Basel, Switzerland, (8)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (10) Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (11)Department of Child and Adolescent Psychiatry and Psychotherapy, Psychiatric Hospital, University of Zurich, Zurich, Switzerland, (12)Zurich Center for Integrative Human Physiology, University of Zurich, Zurich, Switzerland, (13)Neuroscience Centre Zurich, University and ETH Zurich, Zurich, Switzerland, (14)Central Institute of Mental Health, Mannheim, Mannheim, Germany, (15)Central Institute of Mental Health, University of Heidelberg, Heidelberg, GERMANY

97 125.097 Measurement of Autistic Children's Brain Responses with Emotiv EEG J. Brock[1], A. Woolgar[2] and N. A. Badcock[3], (1) Macquarie University, Sydney, NSW, Australia, (2)Macquarie University, Sydney, Australia, (3)Cognitive Science, Macquarie University, Sydney, Australia

98 125.098 Mu Rhythm Suppression Reflects Mother-Child Face-to-Face Interactions: A Hyperscanning MEG Study T. Ikeda[1], C. Hasegawa[2], Y. Yoshimura[2], H. Hiraishi[2], Y. Minabe[2] and M. Kikuchi[2], (1)Kanazawa University, Kanazawa, Japan, (2)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan

99 125.099 Neural Correlates of Affective Processing in Adults with Autism Spectrum Disorder R. Leung[1,2], W. W. Pang[1,2], E. Anagnostou[2,3,4] and M. J. Taylor[1,2], (1)Hospital for Sick Children, Toronto, ON, CANADA, (2)University of Toronto, Toronto, ON, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Hospital for Sick Children, Toronto, ON, Canada



100 125.100 Neural Correlates of Hand Gesture Imitation in Children with Autism Spectrum Disorder R. Nicholas[1], E. Sharer[2], N. Wymbs[1], M. B. Nebel[3], D. Crocetti[1] and S. H. Mostofsky[1], (1)Kennedy Krieger Institute, Baltimore, MD, (2)University of Minnesota, Minneapolis, MN, (3) Johns Hopkins School of Medicine, Baltimore, MD

101 125.101 Neural Correlates of Olfactory Dysfunction in ASD: Preliminary Results F. Velasquez[1], M. Reilly[1], J. Sweigert[1], G. Greco[1], F. Reitz[2], T. St. John[2], G. E. Davis[3], A. Estes[2], S. Dager[4] and N. M. Kleinhans[5], (1)Radiology, University of Washington, Seattle, WA, (2) University of Washington Autism Center, Seattle, WA, (3)Otolaryngology, University of Washington, Seattle, WA, (4)University of Washington School of Medicine, Seattle, WA, (5)University of Washington, Seattle, WA

102 125.102 Neural Mechanisms Underlying Visuospatial Expertise in ASD V. D. Therien[1], D. Luck[2] and I. Soulières[3], (1)University du Québec à Montréal (UQAM), Terrebonn, QC, CANADA, (2)University of Montreal, Montreal, QC, Canada, (3)University of Quebec in Montreal, Montréal, QC, Canada

103 125.103 Neural Mechanisms of Social Prediction Errors in Adolescents with ASD J. K. Kinard[1], M. Addicott[2], M. G. Mosner[3] and G. S. Dichter[3], (1)University of North Carolina - Chapel Hill, Cary, NC, (2) Duke University, Durham, NC, (3)University of North Carolina - Chapel Hill, Chapel Hill, NC

104 125.104 Neural Theory-of-Mind Mechanisms and Their Relations to Children's Social Functioning C. E. Mukerji[1,2], S. H. Lincoln[3], A. V. Torricelli[4], S. Hasselmo[5], N. Kleeman[1], C. I. Hooker[6] and C. A. Nelson[2], (1)Harvard University, Cambridge, MA, (2)Boston Children's Hospital, Boston, MA, (3)McLean Hospital/Harvard Medical School, Boston, MA, (4)Rutgers University, New Brunswick, NJ, (5)Child Study Center, Yale University, New Haven, CT, (6)Rush University Medical Center, Chicago, IL

105 125.105 Neural and Attentional Indices of Joint Attention in ASD A. Naples[1], S. A. A. Chang[2], M. J. Rolison[3], S. Hasselmo[4], T. A. Halligan[4], B. Lewis[5], T. C. Day[3], K. A. McNaughton[3], K. Ellison[3], J. Wolf[6], K. Stinson[7], J. A. Trapani[3], J. H. Foss-Feig[8], E. Jarzabek[3], T. McAllister[3] and J. McPartland[3], (1)Yale School of Medicine, New Haven, CT, (2)Yale University, New Haven, CT, (3)Child Study Center, Yale School of Medicine, New Haven, CT, (4)Child Study Center, Yale University, New Haven, CT, (5)Yale School of Medicine, Darien, CT, (6) Yale Child Study Center, New Haven, CT, (7)Yale University- Child Study Center, Milford, CT, (8)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY

106 125.106 Neural and Behavioral Responses in an Executive Functioning Task Predict Social Communication Symptoms in Children with Autism Spectrum Disorder J. Buirkle[1], T. Clarkson[2], A. Vaidyanathan[3] and S. Faja[1], (1)Boston Children's Hospital, Boston, MA, (2)Psychology, Stony Brook University, Stony Brook, NY, (3)Developmental Medicine, Boston Children's Hospital, Boston, MA

107 125.107 Observation of Goal-Directed Social Actions in Individuals with Autism Spectrum Disorders M. A. Krol, Psychological & Brain Sciences, Boston University, Boston, MA

108 125.108 Reduced Neural Activity in the Action Observation and Mentalizing Network in Children and Adolescents with Autism Spectrum Disorder during Execution, Imitation and Mentalization of Social and Motor Actions E. Kilroy[1,2], L. A. Harrison[1,2,3], A. Concha[1], E. J. Goo[1], C. Butera[1], S. A. Cermak[1] and L. Aziz-Zadeh[1,2], (1)USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (2)Brain and Creativity Institute, Dornsife College of Letters, Arts and Sciences, University of Southern California, Los Angeles, CA, (3)California Institute of Technology, Pasadena, CA

109 125.109 Representational Similarity Between Non-Symbolic and Symbolic Numerical Stimuli in High Level Visual Areas Is Uniquely Related to Individual Differences in Arithmetic Skills in Children with Autism S. G. Mitsven[1], T. Iuculano[1] and V. Menon[2], (1)Stanford University School of Medicine, Palo Alto, CA, (2)Stanford University School of Medicine, Stanford, CA

110 125.110 Resting Gamma Power Predicts Language Ability in Infants at Risk for ASD X. A. Tran[1], A. Miquelajauregui[1], J. Frohlich[2] and S. S. Jeste[1], (1)UCLA, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA

111 125.111 Social Reward and Alpha Asymmetry in ASD K. K. Stavropoulos[1] and L. J. J. Carver[2], (1)University of California - Riverside, Riverside, CA, (2)University of California San Diego, La Jolla, CA

112 125.112 Spontaneous Alpha Oscillations Stratify Children Across the Autism Spectrum Based on Cognitive Ability A. H. Dickinson[1,2], C. DiStefano[3] and S. S. Jeste[2], (1)University of California, Los Angeles, Los Angeles, CA, (2)UCLA, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA

113 125.113 Structural and Functional Characteristics of XYY - Relationship to ASD L. Bloy[1], J. Ross[2,3], J. Rafalko[3] and T. P. Roberts[1], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Thomas Jefferson University, Philadelphia, PA, (3)Nemours/duPont Hospital, Philadelphia, PA

114 125.114 Superior Temporal Sulcus Response in Attributing Social Meaning to Actions in Autism Spectrum Disorder C. Ammons and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL

115 125.115 The Development of Neural Correlates Associated with Visuo-Spatial Working Memory in Children with ASD: 2-Year Longitudinal fMRI Study V. Vogan[1], B. Morgan[2], M. L. Smith[3] and M. J. Taylor[1], (1) Hospital for Sick Children, Toronto, ON, CANADA, (2)The Hospital for Sick Children, Toronto, CANADA, (3)Psycholoy, The Hospital for Sick Children, Toronto, ON, Canada

Withdrawn

116 125.116 The Impact of Stimulant Medication on EEG Alpha Power in Children with Autism Spectrum Disorder A. Kresse[1], L. A. Edwards[2], J. W. Keller[2], C. A. Nelson[2], K. A. Pelphrey[3] and S. J. Webb[4], (1)Seattle Children's Research Institute, Seattle, WA, (2) Boston Children's Hospital, Boston, MA, (3)Yale University, New Haven, CT, (4)University of Washington, Seattle, WA

117 125.117 The "Speech-to-Song Illusion" in Children with Autism Spectrum Disorder M. Sharda[1], N. E. Foster[1], K. Jamey[1], C. Tuerk[1], R. Chowdhury[1], E. Germain[1], A. Nadig[2] and K. L. Hyde[1,2], (1)University of Montreal, Montreal, QC, Canada, (2)Faculty of Medicine, McGill University, Montreal, QC, Canada

118 125.118 Using Complex Dynamic Video to Examine Neural Processing in ASD: A Semi-Naturalistic fMRI Study J. Douglas, L. Byrge, G. Lisandrelli and D. P. Kennedy, Psychological and Brain Sciences, Indiana University, Bloomington, IN

119 125.119 Variance in Language Abilities in Autism As a Function of Hemispheric Lateralization and Functional Connectivity A. J. Herringshaw[1] and R. K. Kana[2], (1)University of Alabama Birmingham, Birmingham, AL, (2)University of Alabama at Birmingham, Birmingham, AL

120 125.120 Word Processing of Child-Directed Speech in Young Preverbal Children with ASD M. P. Sandbank[1], P. J. Yoder[2] and A. P. F. Key[3], (1)Special Education, University of Texas at Austin, Austin, TX, (2) Vanderbilt University, Nashville, TN, (3)Vanderbilt University Medical Center, Nashville, TN

121 125.121 Towards a Neurocomputational Model of Sensory Differences in ASD J. Skewes[1], H. Thaler[2] and P. K. Mistry[3], (1)Interacting Minds Centre, Aarhus University, Aarhus, Denmark, (2)Interacting Minds Center, Aarhus University, Aarhus, Denmark, (3)University of California Irvine, Irvine, CA

122 125.122 Interpersonal Predictive Coding Across the Autistic Spectrum L. Schilbach, Independent Max Planck Research Group for Social Neuroscience, Max Planck Institute of Psychiatry, Munich, Germany

123 125.123 Abnormal Functional Connectivity in the Social Brain Identified By a Generalized Classifier for Autism Spectrum Disorder R. Hashimoto, Medical Institute of Developmental Disabilities Research, Showa University, Setagaya-ku, Japan; Department of Language Sciences, Graduate School of Humanities, Tokyo Metropolitan University, Tokyo, Japan

## Poster Session
126 - Medical and Psychiatric Comorbidity
5:30 PM - 7:00 PM - Golden Gate Ballroom

124 126.124 A Case for Including Adolescent Self Report of Sensory and Anxiety Symptoms in ASD: Evidence from Questionnaire and Autonomic Data J. M. Keith[1], J. P. Jamieson[1], P. Allen[2] and L. Bennetto[1], (1)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (2)University of Rochester Medical Center, Rochester, NY

125 126.125 A Network Perspective on the Relationship Between ASD and Depression Symptoms in Older Adults: The Role of Mastery & Worry B. F. van Heijst[1], M. K. Deserno[1], H. C. Comijs[2] and H. M. Geurts[1], (1)University of Amsterdam, Amsterdam, NETHERLANDS, (2)Psychiatry, GGZ inGeest, Amsterdam, Netherlands

126 126.126 ADHD Severity As It Relates to Comorbid Psychiatric Symptomatology in Children with ASD R. Mansour[1], A. T. Dovi[2], D. M. Lane[3], K. A. Loveland[1] and D. A. Pearson[1], (1)Psychiatry & Behavioral Sciences, University of Texas McGovern Medical School, Houston, TX, (2)University of Houston, Houston, TX, (3)Psychology, Rice University, Houston, TX

127 126.127 ADHD Symptomatology in Preschoolers with Fragile X Contrasted to Idiopathic Autism S. L. O'Connor[1], A. L. Hogan[2], K. E. Caravella[2], S. M. Matherly[2] and J. Roberts[1], (1)Department of Psychology, University of South Carolina, Columbia, SC, (2)University of South Carolina, Columbia, SC

128 126.128 ASD and ID: Results from a National Study of ID of Genetic Origin R. Srinivasan[1], J. Wolstencroft[1], D. H. Skuse[2] and I. D. IMAGINE Consortium[3], (1)UCL GOS Institute of Child Health, London, United Kingdom, (2)UCL GOS Institute of Child Health, London, UNITED KINGDOM, (3)UCL GOS Institute of Child Health, IMAGINE ID, London, United Kingdom

129 126.129 Adaptive Behavioral Dysfunction Is Associated with Increased Risk for ASD Symptoms in Toddlers with Tuberous Sclerosis Complex. D. A. Pearson[1], M. L. Kellems[1], S. S. Hashmi[2], H. Northrup[2], D. A. Krueger[3], A. W. Byars[3], D. S. Murray[4] and M. Sahin[5], (1)Psychiatry & Behavioral Sciences, University of Texas McGovern Medical School, Houston, TX, (2)Pediatrics, University of Texas McGovern Medical School, Houston, TX, (3)Neurology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)Autism Speaks, Boston, MA, (5)Neurology, Boston Children's Hospital, Boston, MA

130 126.130 Adaptive Functioning and Illness/Injury Coping in Children and Adolescents with Autism Spectrum Disorder J. H. Filliter[1], K. Aubrey[2], I. M. Smith[3] and S. A. Johnson[4], (1)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (2)Dr. Kate Aubrey, Psychologist, Kelowna, BC, Canada, (3)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (4)Dalhousie University, Halifax, NS, Canada

131 126.131 Age-Based Patterns of Parent-Reported Medical and Behavioral Problems in Children and Adolescents with ASD A. R. Marvin[1], J. K. Law[2], D. J. Marvin[3] and P. H. Lipkin[3,4], (1)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD, (2)Interactive Autism Network, Baltimore, MD, (3)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (4)Pediatrics, Johns Hopkins School of Medicine, Baltimore, MD

132 126.132 Altered T Cell Subsets in Children with Autism Spectrum Disorders and Co-Morbid Gastrointestinal Symptoms D. Rose[1], H. Yang[2], M. Careaga[3], K. Angkustsiri[4], M. Rose[5], I. Hertz-Picciotto[6], J. Van de Water[7], P. Ashwood[8] and R. Hansen[9], (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)UCD MIND institute, Sacramento, CA, (3) UC Davis/MIND Institute, Sacramento, CA, (4)University of California at Davis, Sacramento, CA, (5)MIND Institute, University of California, Davis, Sacramento, CA, (6)University of California at Davis, Davis, CA, (7) University of California at Davis MIND Institute, Davis, CA, (8)UC Davis, Sacramento, CA, (9)UCD MIND Institute, Sacramento, CA

133 126.133 Anxiety Disorders in Adults with Autism: A Population-Based Study. V. Nimmo-Smith[1,2], C. Magnusson[3], H. Heuvelman[1], C. Dalman[3], M. Lundberg[3], S. Idring Nordstrom[4], P. Carpenter[5] and D. Rai[1], (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)Avon & Wiltshire Partnership NHS Mental Health Trust, Bristol, United Kingdom, (3)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (4)Department of Public Health Sciences, Stockholm, SWEDEN, (5)BASS Autism Services for Adults, Avon & Wiltshire Partnership NHS Trust, Bristol, United Kingdom

134 126.134 Anxiety Disorders in Preschool Age at Risk Children: Autism Siblings and Fragile X Syndrome K. E. Caravella[1] and J. Roberts[2], (1)University of South Carolina, Columbia, SC, (2)Department of Psychology, University of South Carolina, Columbia, SC

135 126.135 Are Autistic Traits Associated with Suicidality in General Population Young Adults? a Test of the Interpersonal-Psychological Theory of Suicide. M. Pelton and S. A. Cassidy, Coventry University, Coventry, United Kingdom

136 126.136 Arousal Dysregulation in Children with Autism Spectrum Disorder S. Zavodny[1], C. M. Kerns[2], L. Berry[3], W. T. Eriksen[4], A. Bennett[5], S. K. Malone[6], J. Pinto-Martin[1], A. Hanlon[7], J. D. Herrington[8,9] and M. C. Souders[10], (1)University of Pennsylvania, Philadelphia, PA, (2) Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (3)Baylor College of Medicine, Houston, TX, (4)University of Pennsylvania School of Nursing, Philadelphia, PA, (5)Children's Hospital of Philadelphia, Philadelphia, PA, (6)Sleep Medicine, University of Pennsylvania, Philadelphia, PA, (7)School of Nursing, University of Pennsylvania, Philadelphia, PA, (8)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Perelman School of Medicine, The University of Pennsylvania, Philadelphia, PA, (10)University of Pennsylvania/The Children's Hospital of Philadelphia, Philadelphia, PA

137 126.137 Assessment of Suicidal Risk in Children and Adolescents with Autism Spectrum Disorder Presenting to a Pediatric Emergency Department R. A. Vasa[1], P. Nair[2], H. Wilcox[2], M. Goldstein[2] and S. Edwards[3], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins Hospital, Baltimore, MD, (3)University of Maryland, Baltimore, MD

138 126.138 Associations Between Dietary Composition and Gastrointestinal Symptoms in Autism Spectrum Disorder B. J. Ferguson[1], D. M. Severns[2], S. Marler[3], E. B. Lee[3], M. O. Mazurek[4], M. L. Bauman[5], K. G. Margolis[6], J. Veenstra-Vander Weele[7] and D. Q. Beversdorf[8], (1)Radiology, University of Missouri, Columbia, MO, (2)University of Missouri, Columbia, MO, (3)Vanderbilt University, Nashville, TN, (4) Health Psychology, University of Missouri, Columbia, MO, (5)Dept of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA, (6)Pediatrics, Columbia University Medical Center, Morgan Stanley Children's Hospital, New York, NY, (7)Psychiatry, New York State Psychiatric Institute / Columbia University, New York, NY, (8)University of Missouri, Columbia, Columbia, MO

139 126.139 Associations of Sleep Disturbance and Autism Symptomatology in Children and Adolescents with ASD T. Winkelman[1], M. J. Rolison[1], S. L. Jackson[1], B. Lewis[2], S. Baddam[3], C. Canapari[4] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale School of Medicine, Darien, CT, (3)Yale School of Medicine, New Haven, CT, (4)Pediatric Respiratory Medicine, Yale New-Haven Hospital, New Haven, CT

140 126.140 Autism, Anxiety and the Role of Gene Expression in Female Children and Adolescents with Fragile X Syndrome M. Chernenok[1], J. L. Burris[2] and S. Rivera[3], (1)Department of Human Ecology, University of California, Davis, Davis, CA, (2)Department of Psychology, University of California, Davis, Davis, CA, (3)Department of Psychology, University of California at Davis, Davis, CA

141 ▸ 126.141 Behavioral Characteristics of Children with Comorbid Epilepsy and Autism Spectrum Disorder H. N. Jackson[1], J. Twachtman-Bassett[2], L. Derynioski[3] and L. Kalsner[4], (1)University of Connecticut School of Medicine, Farmington, CT, (2)Connecticut Children's Medical Center, Colchester, CT, (3)Connecticut Childrens Medical Center, Southington, CT, (4)Connecticut Children's Medical Center, Hartford, CT

142 126.142 Behavioral Inhibition and Activation As a Modifier Process in Youth with ASD H. K. Schiltz[1], A. McVey[1], A. D. Haendel[2], B. Dolan[1], K. A. Willar[3], S. Stevens[4], A. M. Carson[5], F. Mata-Greve[1], E. Vogt[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI, (3)Children's Hospital Colorado, Aurora, CO, (4)University of Minnesota Medical School, Blaine, MN, (5) Baylor College of Medicine/Texas Children's Hospital, Houston, TX

143 126.143 Behavioural Inhibition As a Predictor of Anxiety Problems Among Children at Risk for Autism Spectrum Disorders M. Ersoy[1], G. Pasco[2], C. H. Cheung[3], T. Gliga[4], E. Jones[5], T. Charman[6], M. H. Johnson[4] and T. B. Team[7], (1)King's College London, London, United Kingdom, (2)Institute of Psychiatry, London, UNITED KINGDOM, (3)Psychology, Institute of Psychiatry, Psychology and Neuroscience, London, UNITED KINGDOM, (4)Centre for Brain and Cognitive Development, Birkbeck University of London, London, United Kingdom, (5)Birkbeck, University of London, London, UNITED KINGDOM, (6) Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7)Birkbeck College London, London, United Kingdom

144 126.144 Characteristics of ASD in Adults with Williams Syndrome E. Anderberg[1], M. South[2], L. Dai[3], M. D. Prigge[3], M. Burback[3], J. S. Anderson[3], O. Abdullah[3] and J. R. Korenberg[4], (1)Brigham Young University, Provo, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT, (3)University of Utah, Salt Lake City, UT, (4) Pediatrics, University of Utah, Salt Lake City, UT

145 126.145 Characteristics of Children with ASD Who Improve with Fever: Insights from the Simons Simplex Collection R. Grzadzinski[1], C. Lord[2], S. J. Sanders[3], D. M. Werling[4] and V. Hus Bal[5], (1)Center for Autism and the Developing Brain, New York, NY, (2)Psychiatry, Weill Cornell Medical College, White Plains, NY, (3)UCSF, San Francisco, CA, (4)Psychiatry, UCSF, San Francisco, CA, (5)STAR Center for ASD & NDD; Dept of Psychiatry, University of California, San Francisco, San Francisco, CA

146 126.146 Chronobiology in Adulthood Autism Spectrum Disorder P. Ballester[1,2], M. J. Martínez[3], A. Javaloyes Sanchís[4], N. Fernández Cogollor[5], P. Gázquez Galera[6] and A. M. Peiró[2,7], (1)Hospital General Universitario de Alicante, Alicante, Spain, (2)Clinical Pharmacology, Organic Chemistry and Pediatrics, Universidad Miguel Hernández, Alicante, Spain, (3)Universidad de Murcia, Murcia, Spain, (4)EDUCATEA, Autism supporting living center, Alicante, Spain, (5)APNAV-ANGEL RIVIERE Autism supporting living center, Valencia, Spain, (6)Centro Infanta Leonor, Autism Support Living Center, Alicante, Spain, (7)Clinical Pharmacology, Hospital General Universitario de Alicante, Alicante, Spain

147 126.147 Chymotrypsin: Evidence of a Novel Pancreatic Insufficiency in Children with ASD? D. A. Pearson[1], L. E. Arnold[2], S. Bostrom[3] and M. G. Aman[2], (1)Psychiatry & Behavioral Sciences, University of Texas McGovern Medical School, Houston, TX, (2)Nisonger Center, Ohio State University, Columbus, OH, (3)Ericksen Research and Development, Centerville, UT

148 126.148 Diagnostic Billing Codes Vs. MINI PAS-ADD Clinical Interview: Big Data Accuracy for Identifying Psychiatric Comorbidities in Adults with ASD K. J. Cottle[1], M. Newman[1], A. V. Bakian[2], H. Coon[1], J. L. Davis[1], A. J. Fischer[1] and D. Bilder[2], (1)University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT

149 126.149 Differential Influences of ASD and ADHD Symptom Severity on Adaptive Functioning in Youth with and without ASD Z. J. Williams[1], S. L. Jackson[2], M. J. Rolison[2], T. C. Day[2], K. A. McNaughton[1], L. Morett[1] and J. McPartland[2], (1)Yale Child Study Center, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT

150 126.150 Evaluation of Sleep Disruption in Adults with Neurodevelopmental Disorders A. Galanopoulos[1,2], J. Horder[3], V. Stoencheva[4], G. M. McAlonan[5], A. Nolan[1], D. G. Murphy[5], R. H. Wichers[6], K. Hughes[1], C. M. Murphy[5], K. L. Ashwood[7], S. Maltezos[8], D. Robertson[1] and E. L. Woodhouse[9], (1)Behavioural and Developmental Psychiatry, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (2)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry,Psychology & Neuroscience, King's College, London, London, United Kingdom, (3)Institute of Psychiatry, King's College London, London, UNITED KINGDOM, (4)Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, UNITED KINGDOM, (5)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (6)Institute of Psychiatry, London, UNITED KINGDOM, (7)Forensic & Neurodevelopmental Disorders, King's College London, London, UNITED KINGDOM, (8)The Maudsley Hospital, London, UNITED KINGDOM, (9) Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

151 126.151 Exploring Relationships Between Cognitive Rigidity, Alexithymia, Emotion Regulation, Intolerance of Uncertainty and Anxiety in Autism Spectrum Disorder A. Ozsivadjian[1], I. Magiati[2], M. Absoud[1], O. Malik[1], J. Oliver[1] and G. Baird[3], (1)Newcomen Children's Neurosciences Centre, Evelina London Children's Hospital at Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom, (2) National University of Singapore, Singapore, SINGAPORE, (3)Newcomen Children's Neurosciences Centre, Evelina London Children's Hospital at Guy's and St Thomas' NHS Foundation Trust, London, UNITED KINGDOM

152 126.152 Exploring the Applicability of Models Explaining Development of Suicidal Thoughts and Behaviours in the General Population to the Case of Autism: A Systematic Review K. S. Cook[1], S. A. Cassidy[1], E. Bowen[2] and E. Knight[1], (1)Coventry University, Coventry, United Kingdom, (2)University of Worcester, Worcester, United Kingdom

153 126.153 Exploring the Relationship Between Autism Symptoms, Language Ability, and Externalizing Behaviors in Children with Autism A. J. Schlink[1], A. Sturm[2], C. Kasari[3] and M. Kuhfeld[4], (1)UCLA, Encino, CA, (2)Semel Institute for Neuroscience & Human Behavior, UCLA, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)University of Texas Austin, Austin, TX

154 126.154 Exploring the Validity of the Social Anxiety Scale in Capturing Symptoms of Social Anxiety in Youths with Autism Spectrum Disorder K. Ellison[1], K. Stinson[2], K. Shulman[3], M. J. Rolison[1], T. C. Day[1], K. A. McNaughton[3], E. Jarzabek[1], B. Lewis[4], J. Wolf[3], S. L. Jackson[5], A. Naples[6] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale University- Child Study Center, Milford, CT, (3)Yale Child Study Center, New Haven, CT, (4)Yale School of Medicine, Darien, CT, (5)School of Psychology and Neuroscience, University of St Andrews, St. Andrews, United Kingdom, (6)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

155 126.155 Eye Gaze Patterns of Adolescents with Social Anxiety Disorder: Associations Between ASD Features and Fixation Duration to Affective Stimuli N. N. Capriola[1], A. T. Wieckowski[1], S. W. White[2], S. M. Roldan[1] and T. Ollendick[1], (1)Virginia Tech, Blacksburg, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA

156 126.156 Facing Puberty: Understanding the Onset and Experience of Menses for Females with Autism Spectrum Disorder W. T. Eriksen[1], J. Pinto-Martin[2], M. C. Souders[3] and R. Frasso[2], (1) University of Pennsylvania School of Nursing, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania/The Children's Hospital of Philadelphia, Philadelphia, PA

157 126.157 Food Selectivity and Nutritional Deficits in Children with Autism Spectrum Disorder: Electronic Medical Record Review V. Postorino[1,2], K. Criado[1,2], L. Scahill[1,2], R. Berry[1], J. Yancey[3] and W. Sharp[1,2], (1)Marcus Autism Center, Atlanta, GA, (2)Department of pediatrics, Emory University School of medicine, Atlanta, GA, (3)Mercer University School of Medicine, Atlanta, GA

158 126.158 Gastrointestinal Symptoms in Chinese Children with Autism Spectrum Disorder: Association with Emotional Symptoms? P. W. Leung, The Chinese University of Hong Kong, Shatin, NT, Hong Kong, China

159 126.159 Gastrointestinal Symptoms, Behavioural Problems and Restricted Repetitive Behaviours in an Italian Sample of ASD Preschoolers M. Prosperi[1], E. Santocchi[1], A. Narzisi[1], F. Fulceri[1], F. Apicella[2], R. Igliozzi[1], A. Cosenza[1], R. Tancredi[1], S. Calderoni[1] and F. Muratori[2,3], (1)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (2)IRCCS Stella Maris Scientific Institute, Pisa, Italy, (3)Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy

160 126.160 Hedonic Capacity Influences Motivated Behavior in Autism Spectrum Disorder J. Shah[1], M. G. Mosner[2], J. K. Kinard[3], S. McWeeny[1], C. Damiano[4], M. R. Burchinal[5], H. J. V. Rutherford[6], R. K. Greene[2], M. T. Treadway[7] and G. S. Dichter[2], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)Carolina Institute for Developmental Disabilities, University of North Carolina - Chapel Hill, Chapel Hill, NC, (4)University of North Carolina, Durham, NC, (5)Data Management and Analysis Center, Frank Porter Graham Child Development Institute, Chapel Hill, NC, (6)Child Study Center, Yale School of Medicine, New Haven, CT, (7)Department of Psychology, Emory University, Atlanta, GA

161 126.161 IMPACT of Multiple Comorbid Emotional and Behavioral Conditions on Youth with Autism and Their Families K. N. Medeiros[1,2] and M. O. Mazurek[1], (1)Health Psychology, University of Missouri, Columbia, MO, (2)Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO

162 126.162 Implementing Reliable Screening of Co-Occurring Medical Conditions in Children with Autism Spectrum Disorders Across the Autism Treatment Network D. S. Murray[1,2], K. H. Klatka[3], K. Sohl[4], L. Cole[5], P. Manning-Courtney[6] and D. L. Coury[7], (1)Autism Speaks, Boston, MA, (2)Division of Developmental & Behavioral Pediatrics, Cincinnati Children's Hospital, Cincinnati, OH, (3)Division of General and Academic Pediatrics, Mass General Hospital for Children, Boston, MA, (4) University of Missouri - Thompson Center, Columbia, MO, (5)University of Rochester, Rochester, NY, (6)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (7)Nationwide Children's Hospital, Columbus, OH

163 126.163 Increased Presence of Familial Psychiatric and Neurodevelopmental Disorders in Groups with Unclear or Negative Autism Spectrum Disorder Diagnosis in a State-Wide Autism Registry D. Morriss[1,2], H. Tokadjian[1,3], C. McCormick[1,3], L. Oberman[1,4], T. F. Anders[1,4], E. M. Morrow[1,4,5] and S. J. Sheinkopf[1,2,3], (1)Rhode Island Consortium for Autism Research and Treatment (RI-CART), Bradley Hospital, East Providence, RI, (2)Department of Psychiatry & Human Behavior, Brown University, Providence, RI, (3)Brown Center for the Study of Children at Risk, Women and Infants Hospital, Providence, RI, (4) E. P. Bradley Hospital, East Providence, RI, (5)Department of Molecular Biology, Cell Biology and Biochemistry and Institute for Brain Science, Brown University, Providence, RI

164 126.164 Increased Psychiatric Complexity of Autism Spectrum Disorder: Explaining Diagnostic Inconsistencies H. Tokadjian[1,2], D. Morriss[1,3], C. McCormick[1,2], K. A. Perkins[1,4], L. Oberman[1,3,5], T. F. Anders[1,5], E. M. Morrow[1,3,6] and S. J. Sheinkopf[1,2,3], (1)Rhode Island Consortium for Autism Research and Treatment (RI-CART), Bradley Hospital, East Providence, RI, (2)Brown Center for the Study of Children at Risk, Women and Infants Hospital, Providence, RI, (3)Department of Psychiatry & Human Behavior, Brown University, Providence, RI, (4) E. P . Bradley Hospital, East Providence, RI, (5)E. P. Bradley Hospital, East Providence, RI, (6)Department of Molecular Biology, Cell Biology and Biochemistry and Institute for Brain Science, Brown University, Providence, RI

165 126.165 Interoceptive Sensibility Predicts Anxiety in Children on the Autism Spectrum E. R. Palser[1], A. Fotopoulou[1], E. Pellicano[2] and J. M. Kilner[3], (1)UCL, London, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (3)UCL Institute of Neurology, London, United Kingdom

166 126.166 Is There Sexual Dimorphism of Hyperserotonemia in Autism Spectrum Disorder? L. C. Shuffrey[1,2,3], A. Montgomery[1,3], S. J. Guter[4], S. Delaney[5], S. Jacob[6], G. M. Anderson[7], J. S. Sutcliffe[8], E. H. Cook[9] and J. Veenstra-Vander Weele[3,10], (1)New York State Psychiatric Institute / Columbia University, New York, NY, (2)Biobehavioral Sciences, Teachers College, Columbia University, New York, NY, (3) Center for Autism and the Developing Brain, White Plains, NY, (4) University of Illinois at Chicago, Chicago, IL, (5)Columbia University Medical Center, New York, NY, (6)University of Minnesota, Minneapolis, MN, (7)Yale University School of Medicine, New Haven, CT, (8)Vanderbilt University, Nashville, TN, (9)Psychiatry, University of Illinos at Chicago, Chicago, IL, (10)Psychiatry, New York State Psychiatric Institute / Columbia University, New York, NY

167 126.167 Is the Latent Structure of Psychopathology the Same in ASD and Non-ASD Youths? Evidence from Multi-Group Invariance Testing T. Rosen, C. Rodriguez-Seijas, K. Gadow, H. Kim, M. D. Lerner and N. Eaton, Stony Brook University, Stony Brook, NY

168 126.168 Item-Level Analysis of the Intolerance of Uncertainty Scale in Youth with ASD R. A. Vasa[1,2], A. Keefer[1,2], V. Singh[1] and S. H. Mostofsky[1,2], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD

169 126.169 Language and Social Communication in Children with ASD: Longitudinal Impact on Anxiety and Externalizing Behaviors N. V. Rodas[1], A. Eisenhower[2] and J. Blacher[3], (1)Psychology, University of California, Los Angeles, Los Angeles, CA, (2)University of Massachusetts Boston, Boston, MA, (3)University of California - Riverside, Riverside, CA

170 126.170 Measurement of Multiple Radical Scavenging Activity As a Diagnostic Method for Autism Spectrum Disorder in Children H. Matsuzaki[1] and A. Hirayama[2], (1)Research Center for Child Ment, University of Fukui, Eiheiji-cho, Fukui, Japan, (2)Center for Integrative Medicine, Tsukuba University of Technology, Tsukuba City, Ibaraki, Japan

171 126.171 Need for Valid, Reliable Gastrointestinal Symptoms Measurement Tool for Autism Spectrum Disorder, a Review of the Literature C. Holingue[1], C. A. Newill[1], L. C. Lee[1,2], P. Pasricha[3] and M. D. Fallin[1,2], (1)Wendy Klag Center for Autism and Developmental Disabilities, Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3) Center for Neurogastroenterology, Department of Gastroenterology and Hepatology, Johns Hopkins School of Medicine, Baltimore, MD

172 126.172 Needs Assessment for the Development of an Evidence Based Practice to Support Teens with Co-Occurring ASD and Gender Dysphoria J. F. Strang, M. Knauss, L. Kenworthy, L. Russell, M. D. Powers and L. G. Anthony, Children's National Health System, Washington, DC

173 126.173 Parent-Child Informant Discrepancies of Social Anxiety in ASD Relate to ASD Symptoms and Adaptive Functioning C. A. Burrows[1], L. Usher[2], E. M. Becker-Haimes[3], C. M. McMahon[4], P. C. Mundy[5], A. Jensen-Doss[1] and H. A. Henderson[6], (1)University of Miami, Coral Gables, FL, (2)University of Miami, Madison, WI, (3) Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, (4)Department of Social & Behavioral Sciences, Miami University, Hamilton, OH, (5)University of California at Davis, Sacramento, CA, (6)University of Waterloo, Waterloo, ON, CANADA

174 126.174 Parent-Reported Sleep Problems in Children with Comorbid Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder K. C. Reynolds[1], M. A. Patriquin[2], C. A. Alfano[1], K. A. Loveland[3] and D. A. Pearson[3], (1)Psychology, University of Houston, Houston, TX, (2)Psychiatry & Behavioral Sciences, Baylor College of Medicine, Houston, TX, (3)Psychiatry & Behavioral Sciences, University of Texas McGovern Medical School, Houston, TX

175 126.175 Prevalence and Clinical Features of Suicidal Ideation in Cognitively Able Children and Adolescents with Autism Spectrum Disorder S. L. Jackson, K. Ellison, E. Jarzabek, K. A. McNaughton, T. C. Day, M. J. Rolison and J. McPartland, Child Study Center, Yale School of Medicine, New Haven, CT

176 126.176 Relation of Social Anhedonia with Social Anxiety, Depression and Schizophrenia Symptoms in ASD and Psychiatry Referrals. H. Garman[1], A. Mulhall[2], B. Velia[1], R. J. Weber[1], E. Kang[1], T. Rosen[1] and K. Gadow[1], (1)Stony Brook University, Stony Brook, NY, (2) Psychology, Stony Brook University, Stony Brook, NY

177 126.177 Relationship Between ASD Symptomology, Intellectual Functioning, and Seizure History in Children with ASD J. L. Peterson[1], M. Kelly[2], A. Cole[2], H. Panjwani[2], K. Steinman[3] and R. Bernier[4], (1) Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3) University of Washington and Seattle Children's Hospital, Seattle, WA, (4) University of Washington Autism Center, Seattle, WA

178 126.178 Relationship Between Medical Comorbidity and Problem Behavior in Children with Autism Spectrum Disorder A. Stedman[1], K. A. Smith[2] and M. Siegel[3], (1)Spring Harbor Hospital, Westbrook, ME, (2)Maine Medical Center, Portland, ME, (3)Maine Medical Center - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME

179 126.179 Relationships Between Social Anhedonia, Capacity for Social Pleasure, Loneliness, and Depressive Symptoms in Adults with Autism Spectrum Disorder and Typically Developing Never-Depressed and Depressed Comparisons G. Han and K. Gotham, Vanderbilt University, Nashville, TN

180 126.180 Repetitive Cognition Mediates the Relationship Between Autism Symptoms and Depression E. G. Keenan, C. M. Esposito, A. Labozzetta and M. D. Lerner, Stony Brook University, Stony Brook, NY

181 126.181 Risk and Protection Factors of Comorbidities in Pediatric Cohort with ASD: Elena Cohort A. Baghdadli[1] and C. Rattaz[2], (1)CHU MONTPELLIER, Montpellier, France, (2)Centre de Ressources Autisme, Montpellier, FRANCE

182 126.182 Schizotypal Personality Traits in Autism Spectrum Disorders: What Are the Roles of Alexithymia and Anxiety? N. C. Russell[1], K. Stephenson[1], C. Haenschel[2], M. South[3] and S. B. Gaigg[2], (1)Brigham Young University, Provo, UT, (2)Psychology, City, University of London, London, United Kingdom, (3)Psychology and Neuroscience, Brigham Young University, Provo, UT

183 126.183 Self-Reported Suicidal Ideation, Depression and Loneliness in Adults with Autism Spectrum Disorder (ASD) D. Hedley[1], M. Uljarevic[2,3], M. Wilmot[1], J. Spoor[4], A. L. Richdale[2] and C. Dissanayake[1], (1)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3) Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia, (4)Department of Management & Marketing, La Trobe Business School, La Trobe University, Melbourne, Australia

184 126.184 Simons Simplex Collection at the Interactive Autism Network: An Online Follow-up Study E. Brooks[1], J. S. Toroney[2], P. Feliciano[1], L. Snyder[1], J. K. Law[2], C. W. Lehman[1], P. H. Lipkin[3] and W. Chung[1], (1)Simons Foundation, New York, NY, (2)Interactive Autism Network, Baltimore, MD, (3)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD

185 126.185 Specific Medical Conditions Are Associated with Unique Behavioral Profiles in Autism Spectrum Disorders D. A. Zachor[1] and E. Ben Itzchak[2], (1)Tel Aviv University / Assaf Harofeh Medical Center, Zerifin, Israel, (2)Communication Disorder, Ariel University, Ariel, ISRAEL

186 126.186 Sustained Pupil Dilation to Sad Faces Is Associated with Self-Reported Rumination in Adults with Autism Spectrum Disorder and Adults with Current Depression K. Gotham[1], G. Han[1], R. N. Crist[1] and J. W. Bodfish[2], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt University School of Medicine, Nashville, TN

187 126.187 Testing the Psychometric Properties of the Spence Children's Anxiety Scale (SCAS) and the Screen for Child Anxiety Related Emotional Disorders (SCARED) in Autism Spectrum Disorder. S. Carruthers, R. Kent, M. J. Hollocks and E. A. Simonoff, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

188 126.188 The Children's Sleep Habits Questionnaire: Evaluating Subscales for Sleep Problems in Children with Autism Spectrum Disorder E. Abel[1] and A. J. Schwichtenberg[2], (1)Purdue University, West Lafayette, IN, IN, (2)Purdue University, West Lafayette, IN

189 126.189 The Gender Development Scale: Screening for Gender Dysphoria or Incongruence in Youth with ASD S. Goldstein[1], G. L. Wallace[2], L. G. Anthony[3], L. Kenworthy[3], A. C. Armour[4], M. Knauss[3] and J. F. Strang[3], (1)National Institute of Child Health and Human Development, Washington, DC, (2)Department of Speech and Hearing, George Washington University, Washington, DC, (3)Children's National Health System, Washington, DC, (4)Children's National Medical Center, Washington, DC

190 126.190 The Relationship Between Group Belonging, Subclinical Autistic Traits and Mental Health A. E. Robertson, K. Mitchell and S. Sankalaite, Psychology, School of Social Sciences, University of Dundee, Dundee, United Kingdom

191 126.191 Traditional and Distinct Symptoms of Anxiety in Youth with ASD and a Broad Range of Intellectual Functioning C. M. Kerns[1], B. Winder-Patel[2], M. Solomon[3], B. Heath[4] and D. G. Amaral[3], (1)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (2)MIND Institute, University of California, Davis, Sacramento, CA, (3) Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (4)Mind Institute, UC Davis, Palo Alto, CA

192 126.192 Predicting Parent-Reported Sleep Problems Using Longitudinal Data and Machine Learning Methods in the Autism Speaks-Autism Treatment Network Registry A. M. Shui[1], T. Katz[2], B. A. Malow[3] and M. O. Mazurek[4], (1)Massachusetts General Hospital, Boston, MA, (2)University of Colorado, Aurora, CO, (3)Vanderbilt University Medical Center, Nashville, TN, (4)Health Psychology, University of Missouri, Columbia, MO

193 126.193 Predicting Insomnia in Young Adults: The Role of Autism Symptom Severity, Sensory Atypicality and Intolerance of Uncertainty. A. L. Richdale[1,2], M. Uljarevic[1,2] and R. Y. Cai[1,2], (1)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia

194 126.194 Employment Status Is Related to Sleep Problems in Adults with Autism Spectrum Disorder E. Baker and A. L. Richdale, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

195 126.195 Parent-Based Sleep Education in Autism: A Community-Academic Research Partnership B. Drury, L. L. MacDonald, W. A. Loring, M. Alder, M. Matthews, D. Wofford, J. Lutz and B. A. Malow, Vanderbilt University Medical Center, Nashville, TN

196 126.196 Effects of Social Skills on Anxiety and Parasympathetic Activity Among Youth with Autism Across the PEERS® Intervention A. McVey[1], K. A. Willar[2], H. K. Schiltz[1], A. D. Haendel[3,4], B. Dolan[1], S. Stevens[5], A. M. Carson[6], F. Mata-Greve[1], E. Vogt[1], K. M. Rivera[1], E. Habisohn[1], J. Hilger[7], N. Fritz[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Children's Hospital Colorado, Aurora, CO, (3)Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI, (4)Concordia University Wisconsin, Mequon, WI, (5)University of Minnesota Medical School, Blaine, MN, (6) Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (7) Illinois State University, Normal, IL

197 126.197 Hemispheric Asymmetry As an Electrophysiological Marker of Anxiety in Youth with Autism Spectrum Disorder E. Kang, C. M. Keifer, T. Rosen, T. Clarkson and M. D. Lerner, Stony Brook University, Stony Brook, NY

198 126.198 Common and Distinct Patterns of Functional and Structural Activity in Resting State Brain Networks in Autism and Social Anxiety M. Coffman[1], L. Antezana[1], S. W. White[2] and J. A. Richey[3], (1) Virginia Tech, Blacksburg, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA, (3)Virginia Tech, Blackbsurg, VA

199 126.199 Experiential, Behavioral, and Physiological Correlates of Mixed Emotions in Individuals with Autism Spectrum Disorder A. C. Samson[1], S. D. Kreibig[2], J. J. Gross[2], Y. Enav[2], J. M. Phillips[3], A. Zaharia[1] and A. Y. Hardan[3], (1)Swiss Center for Affective Sciences, University of Geneva, Geneva, Switzerland, (2)Psychology, Stanford University, Stanford, CA, (3)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA

200 126.200 The Role of Alexithymia in Emotional Reactivity and Emotion Regulation in Children with Autism Spectrum Disorder A. P. Costa[1], G. Steffgen[2] and A. C. Samson[3], (1)University of Luxembourg, Esch sur Alzette, LUXEMBOURG, (2)Institute for Health and Behavior, University of Luxembourg, Esch sur Alzette, Luxembourg, (3)Swiss Center for Affective Sciences, University of Geneva, Geneva, Switzerland

201 126.201 Emotion Regulation Strategies in Preschoolers with Autism Spectrum Disorder: Associations with Wellbeing, Sleep and Temperament H. J. Nuske[1], D. Hedley[2,3], A. Woollacott[4], P. Thomson[5] and C. Dissanayake[2], (1)University of Pennsylvania, Philadelphia, PA, (2) School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, Melbourne, AUSTRALIA, (4)Seattle University, Seattle, WA, (5)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

202 126.202 The Efficacy of a Novel Emotion Regulation Group Intervention in Parents of Children with ASD Y. Enav[1], J. J. Gross[1], D. Weiss[1], K. Mirit[1], A. C. Samson[2], D. Pestagourakis[3] and A. Y. Hardan[4], (1)Psychology, Stanford University, Stanford, CA, (2)Swiss Center for Affective Sciences, University of Geneva, Geneva, Switzerland, (3) Department of Psychology, Stanford University, Stanford, CA, (4) Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA

203 126.203 Inter-Relationship Between Insistence on Sameness, Effortful Control and Anxiety in Adolescents and Young Adults with Autism Spectrum Disorder M. Uljarevic[1,2], A. L. Richdale[1,2] and R. Y. Cai[1,2], (1) Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia

204 126.204 Effects of Emotion Regulation and Intolerance of Uncertainty on Anxiety and Depression in Adolescents and Young Adults with Autism R. Y. Cai[1,2], A. L. Richdale[1,2] and M. Uljarevic[1,2], (1) Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia

205 126.205 Addressing Intolerance of Uncertainty in Anxious Young People with Autism Spectrum Disorder J. Rodgers[1], M. Freeston[2], E. Honey[3], A. Hodgson[4], K. Shields[4] and C. Wright[5], (1)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (2)Psychology, Newcastle University, Newcastle, United Kingdom, (3)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (4)Newcastle University, Newcastle, United Kingdom, (5)Northumbria Healthcare, Newcastle, United Kingdom

206 126.206 A Randomized Controlled Trial Comparing Online Mindfulness and CBT Programs to Alleviate Anxiety in Adults with ASD. S. B. Gaigg[1], R. Shah[1], G. Mclaven[1], P. Flaxman[1], D. M. Bowler[1], B. Meyer[2], A. Roestorf[1], C. Haenschel[1], J. Rodgers[3] and M. South[4], (1) Psychology, City, University of London, London, United Kingdom, (2) Psychology, University of Southampton, Southampton, United Kingdom, (3)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (4)Psychology and Neuroscience, Brigham Young University, Provo, UT

## Poster Session
127 - Service Delivery/Systems of Care
5:30 PM - 7:00 PM - Golden Gate Ballroom

207 127.207 A Pragmatic Comparative Trial of Educational Service Delivery Models for Children with ASD T. R. Clark[1], M. Carter[2], J. Stephenson[3], D. M. Costley[4], J. Martin[5], K. Williams[6], L. Browne[7], S. Bruck[8], L. Davies[9] and N. Sweller[10], (1)Education & Research, Autism Spectrum Australia (Aspect), Seven Hills, AUSTRALIA, (2)Department of Educational Studies, Macquarie University Special Education Centre, Sydney, Australia, (3)Institute of Early Childhood, Macquarie University Special Education Centre, sydney, Australia, (4)Autism Spectrum Australia (Aspect), Sydney, AUSTRALIA, (5)Internode, Adelaide, Australia, (6) Developmental Medicine, The Royal Children's Hospital, Parkville, VIC, Australia, (7)Macquarie University Special Education Centre, sydney, Australia, (8)Research, Autism Spectrum Australia (Aspect), sydney, Australia, (9)Autism SA, Adelaide, Australia, (10)Department of Psychology, Macquarie University Special Education Centre, Sydney, Australia

208 127.208 A Profile on ED Visits in Children Aged 6-12 with Autism Spectrum Disorders G. Liu[1], A. Pearl[2], K. Moyer[1], D. Ba[1], L. Kong[1], D. Leslie[3] and M. Murray[1], (1)Penn State College of Medicine, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA, (3)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hershey, PA

209 127.209 A Profile on Hospitalization Subsequent to ED Visits in Adolescents with Autism Spectrum Disorders G. Liu[1], A. Pearl[2], K. Moyer[1], L. Kong[1], D. Leslie[1] and M. Murray[1], (1)Penn State College of Medicine, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA

210 ▸ 127.210 Access to Diagnostic and Autism-Related Services in Under-Resourced and Minority Families: Barriers and Enablers for Families and Educational Service Providers B. Bronstein, D. Straiton, M. Pellecchia, H. J. Nuske, E. Reisinger Blanch and D. S. Mandell, University of Pennsylvania, Philadelphia, PA

211 ▸ 127.211 Access to Related Services for Students with Autism Spectrum Disorder in a Large School District J. Chow[1], J. Williams[1], W. I. Shih[2] and C. Kasari[2], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA

212 127.212 Advancing Family-Centred Health Care for Autism and Related Conditions through Integrated Research B. Rappaport[1], T. Savion-Lemieux[2], I. Peltekova[3] and M. Elsabbagh[4], (1)McGill University, Montreal, QC, Canada, (2)McGill University Health Centre, Montreal, QC, CANADA, (3)McGill University, Montreal, QC, CANADA, (4)McGill University, Montreal, CANADA

213 127.213 An Assessment of "Empowerment" As a Measure of the Impact of Genetic Results on Families Affected By Autism and Related Neurodevelopmental Conditions I. Peltekova[1], A. Yusuf[1], D. Buhas[2], R. Bruno[3], J. Frei[4] and M. Elsabbagh[5], (1)McGill University, Montreal, QC, CANADA, (2)Human Genetics, McGill University, Montreal, QC, Canada, (3)Research Institute of the McGill University Health Centre, Montreal, QC, CANADA, (4)McGill University, Montreal, QC, Canada, (5)McGill University, Montreal, CANADA

214 127.214 An Examination of Ongoing Case-Based Continuing Education Model for Behavior Analysts K. O'Connor[1] and J. K. Randolph[2], (1)MU Thompson Center, Columbia, MO, (2)University of Missouri, Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO

215 127.215 Associations Between Family Navigation As a Care Coordination Strategy and the Receipt of Intervention Services for Families of Children with ASD within the Autism Speaks Autism Treatment Network. M. K. Crossman[1,2], A. M. Shui[3], D. S. Murray[4], K. Kubicek[5] and K. Kuhlthau[3], (1)General Academic Pediatrics, Massachusetts General Hospital, Boston, MA, (2)Harvard Medical School, Boston, MA, (3) Massachusetts General Hospital, Boston, MA, (4)Autism Speaks, Boston, MA, (5)Children's Hospital Los Angeles, Los Angeles, CA

216 127.216 Autism Program Environments Rating Scale (APERS): Psychometric Properties S. L. Odom[1], A. W. Cox[2], K. Hume[3], J. Sideris[4], S. Hedges[5] and S. Kucharczyk[6], (1)University of North Carolina, Chapel Hill, NC, (2)Frank Porter Graham Institute, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)University of North Carolina, Chapel HIll, Carrboro, NC, (4)Frank Porter Graham Child Development Institute, Chapel Hill, NC, (5)UNC Chapel Hill, Chapel Hill, NC, (6)Curriculum & Instruction, University of Arkansas, Fayetteville, AR

217 127.217 Back to School: Understanding the Path to Re-Integration for Autistic Children Who Previously Experienced Educational Exclusion J. L. Brede[1], A. Remington[2], L. Kenny[2], K. Warren[1] and E. Pellicano[2], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, UNITED KINGDOM, (2)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

218 127.218 Barriers and Facilitators to Accessing and Providing Treatment for Insomnia in Children with Neurodevelopmental Disorders: Parent and Health Care Professional Perspectives K. Tan-MacNeill[1], A. Jemcov[2], I. M. Smith[3] and P. Corkum[4], (1)Department of Psychology & Neursocience, Dalhousie University, Halifax, NS, CANADA, (2) Department of Psychology & Neuroscience, Dalhousie University, Halifax, NS, Canada, (3)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (4)Department of Psychology & Neuroscience; Department of Pediatrics; Department of Psychiatry, Dalhousie University & IWK Health Centre, Halifax, NS, Canada

219 127.219 Child Care Center Directors' Knowledge and Perceptions of Early Screening for Developmental Disabilities and Autism Spectrum Disorder (ASD) J. Page[1], M. DuBay[1], T. Uzonyi[1] and E. Crais[2], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

220 127.220 Collaborating with Community and Health Care Service Providers: A Community-Based Screening Program for Identifying Toddlers with Autism Spectrum Disorder M. Couture[1], A. J. Beaudoin[2], M. Gagnon[1], C. Gauthier-Boudreault[1] and C. St-Cyr[3], (1)Universite de Sherbrooke, Sherbrooke, QC, Canada, (2)Université de Sherbrooke, Québec, QC, CANADA, (3)École de réadaptation, Université de Sherbrooke, Sherbrooke, QC, Canada

221 127.221 Collateral Reports of ASD Symptoms in Adults: A Preliminary Comparison of Caregiver and Clinician Ratings A. Pearl[1], M. Murray[2] and S. L. Brown[3], (1)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA, (2)Psychiatry, Penn State College of Medicine, Hershey, PA, (3)Penn State College of Medicine, Hershey, PA

222 127.222 Cost Evaluation of an Early Intervention Program for Children with Autism Z. Cidav, University of Pennsylvania, Philadelphia, PA

223 127.223 Creating Sustainable Systems of Support for Toddlers at Risk for ASD: Caregiver Perceptions and Knowledge Acquisition T. Ryan[1], T. Gaines[2], N. D. Bond[2], E. Chapman[2], S. K. Fuhrmeister[2], E. McCullough[2], M. Costo[2], S. Gillespie[3] and J. L. Stapel-Wax[4], (1)Marcus Autism Center, Suwanee, GA, (2)Marcus Autism Center, Atlanta, GA, (3) Emory University School of Medicine, Atlanta, GA, (4)Emory University School of Medicine, Atl, GA

224 ▸ 127.224 Dbp and CBT – a Professionally Rewarding "Blend" - the Impact of Professional Collaboration on a Vulnerable Underserved Group : Children with Disabilities, Including Those with Autism Spectrum Disorders, Mental Health Challenges, and Their Caregivers N. E. Dick[1,2] and F. E. Felix[3], (1)Paediatrics, North Central Regional Health Authority, Champs Fleur, Trinidad and Tobago, (2)KAIROS Developmental Behavioral Pediatrics, Caribbean Ltd, San Fernando, Trinidad and Tobago, (3)Metanoia CBT, Tacarigua, Trinidad and Tobago

225 127.225 Detection of Autism Spectrum Disorders in Children Aged 4-6 Years By Municipal Maternal and Child Health Physicians: An Educational Intervention Study M. Neukerk[1], M. van 't Hof[1,2], J. T. Bailly[1], H. W. Hoek[2,3] and W. A. Ester[1,2], (1)Sarr Expert Centre for Autism, Lucertis Child and Adolescence Psychiatry, Rotterdam, Netherlands, (2)Parnassia Psychiatric Institute, The Hague, Netherlands, (3)Department of Psychiatry, University Medical Center Groningen, University of Groningen, Groningen, Netherlands

226 127.226 Early Diagnosis of ASD in Toddlers: Models to Improve Access and Wait Times R. Choueiri[1] and J. F. Lemay[2], (1)University of Massachusetts Memorial Children's Medical Center, North Worcester, MA, (2)Pediatrics, University of Calgary, Calgary, AB, Canada

227 127.227 Early Intervention Staff Views on Supporting Evidence Based Practice D. Trembath[1], R. Sulek[2], J. M. Paynter[3], K. Simpson[4] and D. Keen[5], (1)Menzies Health Institute, Griffith University, AUSTRALIA, (2) Menzies Health Institute Queensland, Griffith University, Australia, (3) School of Applied Psychology, Griffith University, Southport, Australia, (4) Griffith University, Mt Gravatt, Australia, (5)Griffith University, Mt Gravatt, AUSTRALIA

228 127.228 Early Support Program for Autism: Bridging the Gap Between Diagnosis and Treatment J. R. Hurts[1], C. Ardel[2], G. G. Baldi[3], S. Colamarino[4], A. Y. Hardan[2] and G. W. Gengoux[2], (1)PGSP-Stanford Psy.D. Consortium, Palo Alto, CA, (2)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (3)Children's Health Council, Palo Alto, CA, (4)John and Marcia Goldman Foundation, San Francisco, CA

229 127.229 Educating Health Care Professionals about ASD through an Online Learning Module P. Burnham Riosa[1], A. Greenblatt[2] and B. Muskat[3], (1)Centre for Applied Disability Studies, Brock University, St. Catharines, ON, Canada, (2)The Hospital for Sick Children, Toronto, ON, Canada, (3)Hospital for Sick Children, Toronto, ON, CANADA

230 127.230 Embedded Behavioral-Health Services for Children with ASD in Pediatric Primary Care: Feasibility and Resident Training A. Dubin[1], T. Foster[1], Z. Warren[2] and J. F. Hine[3], (1)Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3) Dept of Pediatrics, Vanderbilt University Medical Center, Nashville, TN

231 127.231 Environmental Enrichment Therapy for Autism: Outcomes with Increased Access M. Leon[1], E. Aronoff[2] and R. Hillyer[3], (1)UC Irvine, University of California, Irvine, Irvine, CA, (2)Mendability, American Fork, UT, (3)Mendability, LLC, American Fork, UT

232 ▸ 127.232 Evaluating Process and Impact of an Autism Intervention Training Program (AITP) for Professionals in India. K. Sengupta[1], C. Patil[2] and D. Scheelen[3], (1)Ummeed Child Development Center, Mumbai, Maharashtra, India, (2)Ummeed Child Development Center, Mumbai, India, (3)Independent Consultant, Medford, OR

233 127.233 Evaluation of Multiple Iterations of Government Funded Applied Behaviour Analysis Services for Children and Youth with ASD K. Dobranowski[1] and M. Lloyd[2], (1)Faculty of Health Sciences, University of Ontario Institute of Technology, Oshawa, ON, Canada, (2)University of Ontario Institute of Technology, Oshawa, ON, CANADA

234 127.234 Experiences of College Students with Autism Spectrum Disorder: A Focus Group Study J. Kaboski[1], J. M. Olivieri[2], E. A. DeLucia[1], K. Tang[1], M. B. White[3] and A. R. Sinko[3], (1)University of Notre Dame, South Bend, IN, (2)Saint Mary's College, Notre Dame, IN, (3)University of Notre Dame, Notre Dame, IN

235 ▸ 127.235 Exploring Differences in Autism Spectrum Disorder Symptomology By Racial/Ethnic and Socio-Economic Status S. F. Vejnoska[1], K. S. Dickson[2], S. R. Rieth[3], J. Suhrheinrich[4] and A. C. Stahmer[5], (1)UC Davis MIND Institute, Sacramento, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)San Diego State University, San Diego, CA, (4)University of California, San Diego, La Jolla, CA, (5)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

236 127.236 Exploring the Service Needs of Families and Children with ASD: Understanding Service Type, Insurance Status, and Outcome Indicators. K. Casagrande and B. Ingersoll, Michigan State University, East Lansing, MI

237 127.237 Five-Year Program Evaluation of a Government Funded Applied Behaviour Analysis Program M. Lloyd and K. Dobranowski, Faculty of Health Sciences, University of Ontario Institute of Technology, Oshawa, ON, Canada

238 127.238 How Does Transitioning to a Mainstream 'Satellite' Class Affect the Learning, Social and Emotional Functioning of Special School Pupils on the Autism Spectrum?g of Special School Pupils on the Autism Spectrum? A. Croydon[1], A. Remington[2], L. Kenny[2], H. White[1] and E. Pellicano[2], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, UCL Institute of Education, University College London, London, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

239 127.239 ICF-CY Domains of Importance for Parents of Young Children with Autism Considering Treatment Outcomes and Quality of Life: Family-Centered Beyond Professional-Child Intervention. K. Strauss, A. Delle Fratte and L. Fava, Association for Treatment and Research in Autism and Related Conditions, Umbrella Autism, Rome, Italy

240 127.240 Impact of Household Income and Urbanicity on School Services B. L. Baer[1], A. R. Marvin[2], P. H. Lipkin[3] and J. K. Law[1], (1) Interactive Autism Network, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD

241 ▸ 127.241 Improving Diagnostic Capacity for Autism Spectrum Disorder in a Developing Country: A Model Public/Non-Governmental Organization (NGO) Partnership Program P. Bahadursingh[1], J. S. Ramcharan[2], N. E. Dick[3] and R. Teelucksingh[4], (1)South West Regional Health Authority, San Fernando, Trinidad and Tobago, (2)Child Health, University of the West Indies, Mt Hope, Trinidad and Tobago, (3)Paediatrics, North Central Regional Health Authority, Champs Fleur, Trinidad and Tobago, (4)Rotary Club of Port Spain West, Port of Spain, Trinidad and Tobago

242 127.242 Increasing Use of M-CHAT-R/Follow-up in Pediatric Care through Clinician Participation in a Maintenance of Certification Quality Improvement Project L. Stewart[1], R. Sturner[2] and B. Howard[2], (1)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Center for Promotion of Child Development through Primary Care, Baltimore, MD

243 127.243 Initial Efficacy of Primary Care Stepping Stones Positive Parenting Program on Reducing Risk of Dysfunctional Parental Discipline of Children Newly Diagnosed with Autism Spectrum Disorder S. E. McMillin[1], M. W. Bultas[2], K. J. Pierce[2], T. M. White[2] and D. Zand[3], (1)Saint Louis University, Saint Louis, MO, (2)Saint Louis University, St. Louis, MO, (3)Saint Louis University, St Louis, MO

244 127.244 Interdisciplinary Team Evaluation: A Cost and Time Effective Method for the Clinical Assessment of Autism Spectrum Disorder J. Gerdts[1], J. Mancini[2] and R. Bernier[3], (1)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (2)Seattle Children's Autism Center, Seattle, WA, (3)University of Washington Autism Center, Seattle, WA

245 ▸ 127.245 Living up to the Ethical Obligation to Secure the Rights of Individuals with Autism in Developing Countries M. Indargiri[1], F. Crawford[2] and H. J. Bursztajn[3], (1)clinical language sciences, university of reading, reading, United Kingdom, (2)WHEELOCK COLLEGE, BOSTON, MA, (3)harvard medical school, cambridge, MA

246 127.246 Measuring Person Centred Outcomes for Autistic Adults in Receipt of Social Care – Lessons and Results from a Nationwide Study. I. Dale[1], C. N. Hughes[2], T. Humphrey[3], H. Judge[2], C. De Oliveira Ormrod[4], C. Povey[5] and J. Rowland[2], (1)The National Autistic Society, Sheffield, England, United Kingdom, (2)The National Autistic Society, London, United Kingdom, (3)University of East London, London, United Kingdom, (4)University of Manchester, Manchester, United Kingdom, (5)The National Autistic Society, London, UNITED KINGDOM

247 127.247 Measuring the Social Return on Investment from Progression Support for Autistic Adults – Lessons and Results from Case Studies. I. Dale[1], C. Povey[2] and S. Peters[3], (1)The National Autistic Society, Sheffield, England, United Kingdom, (2)The National Autistic Society, London, UNITED KINGDOM, (3)The National Autistic Society, Bristol, United Kingdom

248 127.248 Mixed Method Feedback on the Integration of Parent Engagement Strategies into an Evidence-Based Parent Coaching Intervention for Young Children at Risk for ASD R. Haine-Schlagel[1,2], K. S. Dickson[1], S. R. Rieth[1,2], L. Brookman-Frazee[1,3] and A. C. Stahmer[1,4], (1)Child and Adolescent Services Research Center, San Diego, CA, (2) San Diego State University, San Diego, CA, (3)University of California, San Diego, La Jolla, CA, (4)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

249 ▸ 127.249 Mobile-Health to Enhance Parent-Mediated Intervention for Children with Autism Spectrum Disorder in Vietnam: Process of Development and Lessons Learnt H. S. Vu[1], S. Rodger[2], H. Hoang[3] and M. Tran[3], (1)Center for Creative Initiatives in Health and Population, Hanoi, Vietnam, (2)University of Queensland, Brisbane, AUSTRALIA, (3)Center for Creative Initatives in Health and Population, Hanoi, Viet Nam

250 127.250 Multidisciplinary Evaluation for ASD in a Clinical Setting R. Sidhu and C. Hall, Marcus Autism Center, Atlanta, GA

251 ▸ 127.251 Multimodal Study Using Geospatial Mapping and Survey Analysis to Determine Disparities in Access to Care for Children with ASD C. R. Shoff[1], R. Gott[2], J. Gehricke[3] and M. Dillon[4], (1)Lindenwood University, St. Charles, MO, (2)Saint Louis University, Clayton, MO, (3)University of California, Irvine, Santa Ana, CA, (4)The Center for Autism & Neurodevelopmental Disorders, Santa Ana, CA

252 ▸ 127.252 Predictors of Behavioral Health Treatment Continuation and Adherence in Children with Autism Spectrum Disorders M. N. Davignon[1], N. Shankute[2], M. L. Massolo[3], C. Yoshida[3] and L. A. Croen[3], (1)Kaiser Roseville Medical Center, Roseville, CA, (2)Kaiser Permanente Division of Research, Berkeley, CA, (3)Kaiser Permanente Division of Research, Oakland, CA

253 127.253 Predictors of School Satisfaction in Parents of Children with Autism Spectrum Disorder B. L. Ncube[1], M. Charles[2], A. Perry[3] and J. A. Weiss[4], (1)York University, York, ON, CANADA, (2)York University, Toronto, ON, Canada, (3)Psychology, York University, Toronto, ON, CANADA, (4)York University, Toronto, ON, CANADA

254 127.254 Quality of Life Assessment for Adults with ASD (QLAA) A. El-Nageh, 2672562259, JFCS of Greater Philadelphia, Philadelphia, PA

255 ▸ 127.255 Racial Disparity in Mental Healthcare Services Access and Utilization Among Children with ASD in the US W. Zeleke[1], T. L. Hughes[2] and N. Drozda[2], (1)Duquesne University, Gibssonia, PA, (2) Duquesne University, Pittsburgh, PA

256 ▸ 127.256 Racial and Ethnic Differences in the Utilization of Emergency Departments for Transition Age Young Adults with ASD Only and ASD with ID H. J. Carretta[1], T. W. Benevides[2] and K. Y. Graves[3], (1) Florida State University College of Medicine, Tallahassee, FL, (2)Thomas Jefferson University, Philadelphia, PA, (3)Behavioral Sciences and Social Medicine, Florida State University College of Medicine, Tallahassee, FL

257 127.257 Reducing Behavioral Crisis Emergency Room Visits through a Novel Care Model: Behavioral & Developmental Neuropsychiatry (BDNP) Care Continuum C. A. Erickson[1], L. K. Wink[1], L. A. Terhune[2], R. Sorensen[1], J. Imhoff[1], K. C. Dominick[3], E. Pedapati[4], A. K. Hill[1], M. Sorter[1] and S. Benton[1], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Psychiatry, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)Division of Psychiatry, Cincinnati Children's Hospital Medical Center, CINCINNATI, OH, (4) INSAR Cincinnati Children's Hospital Medical Center, Anderson, OH

258 127.258 Right Kids, Right Time, Right Services: Translating Research to Practice in Early Detection of Developmental Challenges in Early Childhood Education Settings B. Mozolic-Staunton[1], J. Barbaro[2], M. Donelly[3] and J. Yoxall[3], (1)Southern Cross University, Casuarina, NSW, Australia, (2)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia, (3) Health and Human Sciences, Southern Cross University, Bilinga, Australia

259 127.259 Role of Care Coordination in Improving Access to Services for Newly Diagnosed Children C. Rhodes, K. M. Stiles and C. Hall, Marcus Autism Center, Atlanta, GA

260 127.260 Services and Care for Adults with Autism Spectrum Disorder in the European Union: A Multi-Site Assessment By the Asdeu Consortium D. E. Schendel[1], C. Kloster Warberg[2], S. Cramer[2], L. Poustka[3], R. Diehm[4], G. Iskrov[5], R. Stefanov[6], L. Bouvet[7], B. Roge[8], A. Staines[9], M. R. Sweeney[10], A. M. Boilson[11], T. Leósdóttir[12], E. Saemundsen[13], F. Muratori[14], I. K. Moilanen[15], M. Gissler[16], T. Parviainen[17], P. Tani[18], R. Kawa[19], A. M. Vicente[20], C. Rasga[21], M. Efrim-Budisteanu[22], I. Dale[23], C. Povey[24], N. Flores[25], C. Jenaro[25], M. L. Monroy[25], P. Garcia Primo[26] and M. Posada[27], (1)Aarhus University, Aarhus, DENMARK, (2) Aarhus University, Aarhus, Denmark, (3)Clinic for Child and Adolescent Psychiatry, Medical University Vienna, Vienna, Austria, (4)Clinic for Child and Adolescent Psychiatry, Medical University of Vienna, Wien, Austria, (5)Bulgarian Association for Promotion of Education and Science (BAPES), Plovdiv, Bulgaria, (6)Institute for rare diseases, Bulgarian Association for Promotion of Education and Science (BAPES), Plovdiv, Bulgaria, (7)University Toulouse 2, Toulouse, France, (8)Université de Toulouse 2 Jean Jaurès, Toulouse, FRANCE, (9)Dublin City University, Dublin, IRELAND, (10)School of Nursing and Human Sciences, Dublin City University, Dublin, Ireland, (11)Dublin City University, Dublin 9, IRELAND, (12)(State Diagnostic and Counselling Centre, Kópavogur, Iceland, (13)State Diagnostic and Counseling Center, Kopavogur, ICELAND, (14)Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy, (15)University of Oulu, Oulu, FINLAND, (16) University and University Hospital of Oulu, Oulu, Finland, (17)The Finnish Association for Autism and Asperger's Syndrome, Helsinki, Finland, (18)University of Helsinki, Helsinki, Finland, (19)University of Warsaw, Warsaw, Poland, (20)Instituto Nacional Saude Doutor Ricardo Jorge, Lisbon, PORTUGAL, (21)Instituto Nacional de Saúde Doutor Ricardo Jorge (INSA), Lisbon, Portugal, (22)"Victor Babes" National Institute of Pathology, Bucharest, Romania, (23)Centre for Autism, The National Autistic Society, London, United Kingdom, (24)The National Autistic Society, London, UNITED KINGDOM, (25)University of Salamanca, Salamanca, Spain, (26)Carlos III National Health Institute, Madrid, SPAIN, (27)Carlos III Health Institute, Madrid, SPAIN

261 127.261 Supporting Educational Personnel to Train Their Staff in ASD: A Pilot Study J. Salt and K. Johnsen, HAVE Dreams, Park Ridge, IL

262 ▸ 127.262 The Complex Road to ASD Interventions: Parents' and Providers' Views of Barriers and Facilitators M. L. Massolo[1], M. N. Davignon[2], A. E. Richards[1], C. Yoshida[1] and L. A. Croen[1], (1)Kaiser Permanente Division of Research, Oakland, CA, (2)Kaiser Roseville Medical Center, Roseville, CA

263 127.263 The Conditions and Characteristics of Adult Supplemental Security Income Recipients with Autism K. A. Anderson[1], J. Hemmeter[2], J. Rast[3], A. Roux[3], P. Shattuck[3] and C. Sosnowy[3], (1)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (2)Office of Research, Demonstration, and Employment Support, Social Security Administration, Baltimore, MD, (3)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

264 127.264 The Costs and Benefits of Employing an Adult on the Autism Spectrum M. Scott[1,2], A. Jacob[2], D. Hendrie[3], R. Parsons[4], S. J. Girdler[2,5], T. Falkmer[1,2] and M. Falkmer[2,5], (1)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (2) School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (3)School of Public Health, Curtin University, Perth, Australia, (4)School of Pharmacy, Curtin University, Perth, Australia, (5)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia

265 127.265 The Effect of Familial Status on the Attainment and Funding of Services in Children with ASD L. Nichols[1], R. K. Ramsey[1], M. Khowaja[1], L. B. Adamson[1] and D. L. Robins[2], (1)Georgia State University, Atlanta, GA, (2)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

266 127.266 Therapist Adaptations to a Package of Evidence-Based Strategies for Children with Autism Spectrum Disorder M. Dyson[1], C. Chlebowski[2] and L. Brookman-Frazee[3], (1)University of California San Diego, San Diego, CA, (2)University of California, San Diego, San Diego, CA, (3)University of California, San Diego, La Jolla, CA

267 127.267 Understanding General Practitioners' Knowledge, Attitudes and Experiences in the Recognition and Management of Individuals on the Autism Spectrum S. Unigwe[1], L. Kenny[2], C. Buckley[3], A. Remington[4], L. Crane[5] and E. Pellicano[2], (1)Royal College of General Practitioners, London, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (3)The Royal College of General Practitioners UK, London, UNITED KINGDOM, (4)Centre for Research in Autism & Education, UCL, London, United Kingdom, (5)Goldsmiths, University of London, London, UNITED KINGDOM

268 127.268 Use and Perceived Evidence-Base of Autism Spectrum Disorder Interventions By Allied Health Practitioners J. M. Paynter[1], D. Trembath[2], R. Sulek[3] and D. Keen[4], (1)School of Applied Psychology, Griffith University, Southport, Australia, (2)Menzies Health Institute, Griffith University, AUSTRALIA, (3)Menzies Health Institute Queensland, Griffith University, Australia, (4)Griffith University, Mt Gravatt, AUSTRALIA

269 127.269 Using Technology to Support Early Intervention Providers to Build Capacity in Families of Toddlers at Risk for Autism Spectrum Disorder M. Costo[1], S. K. Fuhrmeister[1], N. D. Bond[1], E. Chapman[1], E. McCullough[1], T. Gaines[1], S. Gillespie[2] and J. L. Stapel-Wax[3], (1)Marcus Autism Center, Atlanta, GA, (2)Emory University School of Medicine, Atlanta, GA, (3)Emory University School of Medicine, Atl, GA

270 127.270 Variables Associated with Services Sought By Caregivers of Individuals with Autism Spectrum Disorder S. J. Lee[1], A. Wainer[2], L. Soorya[1], L. Fogg[1], L. Kraus[3] and J. W. Lee[1], (1)Rush University Medical Center, Chicago, IL, (2)Rush University Medical Center, Oak Park, IL, (3)rush University Medical Center, Chicago, IL

271 127.271 What Autism Spectrum Disorder Services Do Families Want? : Results of a Brief Quality Improvement Survey in a Hospital-Based Outpatient Clinic J. Palilla[1], E. Bernabe[2] and L. Dewey[3], (1) Nemours Alfred I. duPont Hospital for Children, Wilmington, DE, (2) Nemours/AIDHC, West Chester, PA, (3)Nemours, Wilmington, DE

272 127.272 Young Adults on the Autism Spectrum: Lost in the Services Maze C. M. Anderson and C. L. Butt, Interprofessional Health Studies, Towson University, Towson, MD

273 ▸ 127.273 Cross-Cultural Family Perspectives on Early Detection of ASD A. Evans[1], A. Delehanty[2], R. R. Grinker[3], S. Mazzatenta[2], J. Brown Speights[4], T. Walton-Walker[2], I. Davis[5], G. Ranger-Murdock[6], J. Boucher[7] and A. M. Wetherby[2], (1)National Black Church Initiative, Washington, DC, (2)Florida State University Autism Institute, Tallahassee, FL, (3)George Washington University, Washington, DC, (4) Florida State University College of Medicine, Tallahassee, FL, (5)Florida State University, Tallahassee, FL, (6)Cornell University, Ithaca, NY, (7) CADB, Ossining, NY

274 ▸ 127.274 Physicians' Perspectives on Early Screening and Diagnosis of ASD: Challenges and Solutions in Diverse Communities R. Turchi[1], J. Brown Speights[2], A. Delehanty[3], S. Mazzatenta[3], L. Orsini[1], E. Kaiser[4], J. L. Stapel-Wax[5], D. L. Robins[6], S. Dufek[7] and A. M. Wetherby[3], (1)Drexel University, Philadelphia, PA, (2)Florida State University College of Medicine, Tallahassee, FL, (3)Florida State University Autism Institute, Tallahassee, FL, (4)Marcus Autism Center, Atlanta, GA, (5)Emory University School of Medicine, Atl, GA, (6)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (7)Weill Cornell Medical College, White Plains, NY

275 127.275 Engaging Community Service Providers to Improve Earlier Autism Screening and Detection J. L. Stapel-Wax[1], E. Kaiser[2], L. Orsini[3], S. Mazzatenta[4], K. Traub[5], M. Costo[2], T. Gaines[2], D. L. Robins[6], S. Dufek[7], G. Ranger-Murdock[8], J. Boucher[9], C. J. Newschaffer[6], A. Klin[10], C. Lord[11] and A. M. Wetherby[4], (1)Emory University School of Medicine, Atl, GA, (2)Marcus Autism Center, Atlanta, GA, (3)PA Chapter of the American Academy of Pediatrics, Media, PA, (4)Florida State University Autism Institute, Tallahassee, FL, (5)AJ Drexel Autism Institute, Philadelphia, PA, (6)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (7) Weill Cornell Medical College, White Plains, NY, (8)Cornell University, Ithaca, NY, (9)CADB, Ossining, NY, (10)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (11)Psychiatry, Weill Cornell Medical College, White Plains, NY

276 127.276 Using Tailored E-Mail Messages about Social Communication Milestones and Autism Spectrum Disorder to Engage Professionals in Autism Navigator® for Primary Care A. Delehanty[1], J. Warrick-Imrisek[2], N. D. Rich-Wiseman[3], D. Jones-Ellis[1], S. Barnes[1], C. North[1] and A. M. Wetherby[1], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Florida State University College of Medicine, Tallahassee, FL, (3)Florida State University College of Medicine, Bedford, MA

277 127.277 Employing Process Maps to Identify Provider- and Site-Variation in Screening for Autism Spectrum Disorder T. I. Mackie[1], C. Tan[2], J. Benneyan[3], R. C. Sheldrick[4] and M. Sridhar[5], (1)Institute for Health, Health Care Policy and Aging Research, School of Public Health, Rutgers University, New Brunswick, NJ, (2)Brandeis University, Waltham, MA, (3)Northeastern University, Boston, MA, (4)Tufts Medical Center, Boston, MA, (5)Robert Wood Johnson Medical School, Rutgers University, New Brunswick, NJ

278 127.278 Pathways to Autism Spectrum Disorder Diagnosis through a Multi-Stage Screening Process E. Frenette[1], N. A. Hoch[1], J. D. Vera Jones[1], T. I. Mackie[2] and C. Tan[3], (1)University of Massachusetts Boston, Boston, MA, (2)Institute for Health, Health Care Policy and Aging Research, School of Public Health, Rutgers University, New Brunswick, NJ, (3)Brandeis University, Waltham, MA

## Special Interest Groups (SIGs)

Friday, May 12, 2017: 7:15 AM - 8:45 AM
*Location listed under each session*

### 130 - Anxiety in ASD

7:15 AM - 8:45 AM - Yerba Buena 10-14

*SIG Leader:* Jacqui Rodgers

*SIG Co-Leader:* Alana McVey

Anxiety poses significant additional challenges for many children with autism, which continue into adulthood, contribute to individual impairment, and significantly reduce individual opportunities. Research remains in its early stages and a pressing need continues for researchers to collaborate to share expertise and knowledge in relation to the development of a theoretical framework to better conceptualise anxiety in ASD, improve early identification of the combined presentation through the use of more sensitive assessment, and develop appropriate and effective interventions for this often deleterious co-morbid presentation. Topics for this SIG meeting include discussion of three key questions: 1. What are the mechanisms underlying anxiety in autism? 2. What are the active ingredients in treatment? 3. How can we best adapt treatments for adults with ASD and anxiety? Our meeting will begin with short presentations from graduate students and postdocs on each of our topic areas. We will then organize smaller discussion groups and group representatives will report on progress for the past year. The student network will present on student involvement, mentoring tips, and facilitate matching of student applicants with potential mentors. A summary of our progress as a SIG will be provided. Given this will be our final year as a SIG, we will discuss next steps to ensure that we are able to continue to build on the work that we have achieved together over the past three years.

### 131 - Integrating Autistic Intellect in Autism Research Part 2: Collaborative Problem Solving

7:15 AM - 8:45 AM - Nob Hill AB

*SIG Leader:* Dena L. Gassner

In 2015, this panel facilitated a discussion about how the panelists were engaged in incorporating autistic intellect in research as degree, non-degree professors, students and community collaborators in research design, intent and quality. This session will be a workshop collaboration where groups will report back their status, what they need, any barriers they face and any resources they can share. Efforts will be made to create a community participatory research group for future collaboration.

### 132 - Implementing and Evaluating Community-Based Early Intervention

7:15 AM - 8:45 AM - Yerba Buena 3-6

*SIG Leaders:* Kristelle Hudry & Giacomo Vivanti

*SIG Co-Leaders:* Melissa Maye & Cathy Bent

There is a growing body of high quality research supporting the efficacy of early-intervention for young children with autism. However, less is known about factors that may support or impede the effective implementation, evaluation and scale-up of early intervention in real world settings. Different perspectives have emerged from scholars who participated in the 2015 and 2016 meetings of this SIG, including regarding whether the development and evaluation of interventions should follow a pipeline similar to that used in medicine – from clinical trials to community effectiveness trials – versus a more pragmatic model where resources and practices already established in the community inform how interventions are developed and tested. As the final SIG in this series on Community-Based Early Intervention, this 2017 SIG meeting will engage attendees to identify key questions of ongoing interest. Attendees will be invited to submit, in advance, questions/issues for consideration by an invited and diverse panel to discuss at the meeting. The aim will be to move towards a best practice framework to inform the implementation and evaluation of community-based early intervention and to establish a network of working groups to continue discussions and work in this area beyond the INSAR-supported SIG meetings.

### 133 - Older Adults with ASD: The Consequences of Aging

7:15 AM - 8:45 AM - Nob Hill CD

*SIG Leader:* Hilde M. Geurts

*SIG Co-Leader:* Amanda Roestorf

As a follow up on next year we will focus on ASD adults over 50 years of age as ASD in older adults has been a neglected topic for years. Last year we did discuss, among other things, that there is little consistency on the types of assessment and outcome measures that should be used with older individuals. Based on what several research groups used in the past, we will have groups discussions regarding a subset of prospective measures that have the potential to be used across research project across the globe. If we use overlapping measures, data collected can be combined which will enable us to speed up the process of gaining knowledge on aging in those with ASD.

## Welcome Address & Sponsor Update

8:45 AM - Welcome from IMFAR Organizers
8:50 AM - Simons Foundation Update
Yerba Buena 8-9

## Keynote Address

135 – Engaging Autism: Interventions for Improving Social Communication Outcomes
9:00 AM - 10:00 AM - Yerba Buena 8-9

Speaker: Connie Kasari, PhD, University of California, Los Angeles, Los Angeles, CA

Early interventions for children with ASD have resulted in greater numbers of children entering mainstream settings, and fewer children entering school as minimally verbal. While we have several effective behavioral interventions, heterogeneity in response to treatment remains a significant challenge. Our approach to addressing heterogeneity and response to treatment has been 1) the development of targeted and modular interventions that address core areas of impairment in children with ASD, and 2) methodologies that address response to intervention with the goal of personalizing treatment. This talk will describe our work in applying targeted interventions for improving social communication outcomes across a range of developmental ages, delivered in authentic community settings, and mediated through multiple individuals. Underserved, and under-represented groups of children will be highlighted, including minimally verbal school aged children, and girls, as well as methods for systematically adapting interventions based on child response. To further the goal of personalized treatment, future challenges center on greater specification of the active ingredients of interventions, and individual differences in predicting response to treatments.

## Tech Demo Session

136 – Innovative Technology Demonstrations
10:00 AM - 1:40 PM - Golden Gate Ballroom

1 136.001 A Researchkit App with Automatic Detection of Facial Affect and Social Behaviors from Videos of Children with Autism J. Hashemi[1], K. Campbell[2], S. Espinosa[1], S. Marsan[3], Q. Qiu[1], M. Tepper[1], K. Carpenter[3], J. Schaich Borg[1], G. Dawson[3], R. Bloomfield[1], H. Egger[4] and G. Sapiro[1], (1)Duke University, Durham, NC, (2)Duke Center for Autism and Brain Development, Durham, NC, (3)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (4)Child and Adolescent Psychiatry, NYU Langone Medical Center, New York, NY

2 136.002 A Smartphone Application to Measure Response to Name in Everyday Environments R. P. Thomas[1], L. A. Wang[1], J. Miller[2], J. W. Pennington[2], S. Hassan[2], A. Grasmeder[2], J. Swanick[2], N. Minyanou[1] and J. Miller[3], (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Department of Biomedical and Health Informatics, The Children's Hospital of Philadelphia, Philadelphia, PA, (3) The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

3 136.003 A Mobile Video Game for Studying Social and Nonsocial Executive Functions in Children with ASD B. Li[1], Y. A. Ahn[2], M. Kim[3], M. Mademtzi[4], S. A. A. Chang[5], E. Barney[6], C. Foster[4], M. Best[5] and F. Shic[3], (1)Seattle Children's Research Institute, Seattle, WA, (2) Seattle Children's, Seattle, WA, (3)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA, (4)Yale Child Study Center, New Haven, CT, (5)Yale University, New Haven, CT, (6)Child Study Center, Yale University, New Haven, CT

4 136.004 Novel and Surprising Touchscreen Game Elements Can Motivate Spontaneous Communication from Children with Autism A. M. Alcorn, UCL Institute of Education, University College London, Centre for Research in Autism and Education (CRAE), London, United Kingdom

5 136.005 Using Positional Tracking to Monitor Gaze in VR - Pilot Study L. A. Hart[1], R. A. Oien[2], E. Velasquez[3], Q. Wang[4], M. Mademtzi[5], F. R. Volkmar[6] and F. Shic[7], (1)Yale School of Medicine, New Haven, CT, (2)The Arctic University of Norway, Tromso, NORWAY, (3)Full Sail University, Orange County, FL, (4)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (5)Yale Child Study Center, New Haven, CT, (6)Child Study Center, Yale School of Medicine, New Haven, CT, (7)Seattle Children's Research Institute, Seattle, WA

6 136.006 Child-Directed Play-Based Identification of Sensory Preferences: A Report on the Sensory Toy Box Experience with ASD and TD Children S. Valencia[1], M. Mademtzi[1], P. E. Ventola[1], K. Chawarska[2] and F. Shic[3], (1)Yale Child Study Center, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3) Seattle Children's Research Institute, Seattle, WA

7 136.007 Evaluating the Effectiveness of a PRT Community-Based Autism Parent Coaching Program Using LENA M. Stolte[1], V. R. Smith[1] and C. Labonte[2], (1)Educational Psychology, University of Alberta, Edmonton, AB, CANADA, (2)Department of Educational Psychology, University of Alberta, Edmonton, AB, Canada

8 136.008 An Automated Telehealth System for Long-Term Monitoring of Meltdowns in Children with Autism Spectrum Disorder: Epxautism. J. R. Feltes, M. Pan, S. Zhang, R. Talkin, N. Zhao, R. Chen and N. Marrus, Washington University School of Medicine in Saint Louis, Saint Louis, MO

9 ▸136.009 Distance Mentoring Model for Autism Assessments in the Indian Himalayas S. Nagesh, Latika Roy Foundation, Dehradun, India

10 136.010 Data Collection and Token Management System for Group-Based Therapy R. Jakobovits[1,2], R. C. Bocirnea[2], B. Aaronson[1] and A. Estes[3], (1)University of Washington, Seattle, WA, (2)Experiad Solutions, Honolulu, HI, (3)University of Washington Autism Center, Seattle, WA

11 136.011 Healthier Me: An App to Promote Health, Nutrition and Safety for Children with ASD J. Harris[1] and A. P. Robertiello[2], (1) Children's Specialized Hospital, Mountainside, NJ, (2)Autism, Children's Specialized Hospital, Mountainside, NJ

12 136.012 Can Computer-Assisted Training of Prerequisite Motor Skills Help Enable Communication in People with Autism? M. K. Belmonte[1], E. J. Weisblatt[2], A. Rybicki[3] and P. Karanth[4], (1)Com DEALL Trust, Bangalore, INDIA, (2)Department of Psychology, University of Cambridge, Cambridge, UNITED KINGDOM, (3)Division of Psychology, Nottingham Trent University, Nottingham, United Kingdom, (4)The Com DEALL Trust, Bangalore, 560043, INDIA

13 136.013 Matrix Training on a Mobile Application to Enhance Language Learning and Generalization in Minimally-Verbal Autism O. Wendt[1], R. Nigam[2] and K. Warner[1], (1)Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN, (2)Department of Communication Disorders, Governors State University, University Park, IL

14 136.014 Integrating User Analytics into Mobile Applications for Speech and Language Treatment in Autism M. G. Zentner[1] and O. Wendt[2], (1)Information Technology at Purdue (ITaP), Purdue University, SPEAK MODalities, LLC, West Lafayette, IN, (2)Purdue University, West Lafayette, IN

15 136.015 My Hospital Story - a Hospital Narrative App K. Blakeslee[1], C. Wilkinson[2], K. Diezel[3], C. Mauras[2], N. Goodman[2], S. Al Ayubi[4], N. Gujral[3] and B. Resner[5], (1)Autism Spectrum Center, Boston Children's Hospital, Boston, MA, (2)Developmental Medicine Center, Boston Children's Hospital, Boston, MA, (3)Boston Children's Hospital, Boston, MA, (4)Innovation & Digital Health Accelerator, Boston Children's Hospital, Boston, MA, (5)Hospital IQ, Newton, MA

16 136.016 A Usability Evaluation of a Driver Training Application for Teens with Autism Spectrum Disorder M. A. Monahan[1], J. O. Brooks[2], C. Jenkins[3] and J. Seeaner[4], (1)Driver Rehabilitation Institute, Santa Rosa, CA, (2)DriveSafety, Inc., Greenville, SC, (3)Clemson University, Greenville, SC, (4)CU-ICAR, Greenville, SC

17 136.017 Jemime, a Serious Game to Teach Emotional Facial Expressiveness for Individuals with Autism Spectrum Disorders. S. Hun-Billiaut[1,2], S. Serret[1,2,3], J. Bourgeois[1], P. Foulon[4], D. Cohen[5,6], C. Grossard[5,6], O. Grynszpan[6], F. Askenazy[1,3], A. Dapogny[6], S. Dubuisson[6], L. Chen[7] and K. Bailly[6], (1)Cognition-Behaviour-Technology (CoBTeK), EA 7276, University of Nice Sophia Antipolis, Nice, France, (2)Autism Resource Center, Lenval Foundation, Nice, France, (3)University Department of Child and Adolescent Psychiatry, Children's Hospitals of Nice CHU-Lenval, Nice, France, (4)Genious group, Colombes, France, (5)Department of Child and Adolescent Psychiatry, AP-HP Groupe Hospitalier Pitié-Salpêtrière, PARIS, France, (6)CNRS UMR 7222, Institute of Intelligent Systems and Robotics, University Pierre et Marie Curie, PARIS, France, (7)Liris laboratory UMR CNRS 5205, Ecole Centrale of Lyon, Ecully, France

18 ▸ 136.018 Rethink: Leveraging Technology to Disseminate Evidence-Based Interventions P. Wright, Rethink New, Pittsburgh, PA

19 136.019 Autism Focused Intervention Resources and Materials (AFIRM): Supporting Teachers Use of Ebps A. Sam[1], A. W. Cox[2], S. L. Odom[3], A. Zembo[4] and V. Waters[4], (1)Frank Porter Graham Child Development Institute, Carrboro, NC, (2)Frank Porter Graham Institute, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)University of North Carolina, Chapel Hill, NC, (4)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC

20 ▸ 136.020 Autism Navigator®: Using Implementation Science to Improve Global Access to Early Detection and Intervention for ASD C. Nottke[1], E. Kaiser[2], C. North[1], M. Nottke[1], D. Jones-Ellis[1], S. Mazzatenta[1], L. Newton[1], J. L. Stapel-Wax[3], N. J. Chambers[4], J. Woods[5], A. Klin[6] and A. M. Wetherby[1], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Marcus Autism Center, Atlanta, GA, (3)Emory University School of Medicine, Atl, GA, (4)Child and Adolescent Psychiatry, UCT, Cape Town, SOUTH AFRICA, (5)Florida State University, Tallahassee, FL, (6)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

21 136.021 Introducing a Novel Community-Based Assessment Tool: The Computerized Social Affective Language Task (C-SALT) N. Minyanou[1], L. Bateman[2], M. Liberman[3], C. Cieri[4], N. Ryant[4], J. Brown[5], E. S. Kim[6], Z. M. Dravis[5], E. Ferguson[2], K. Bartley[7], A. T. Pomykacz[8], J. Pandey[6], A. B. de Marchena[9], R. T. Schultz[6] and J. Parish-Morris[5], (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Center for Autism Research/CHOP, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)University of Pennsylvania Linguistic Data Consortium, Philadelphia, PA, (5)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (7)Center for Autism Research, Malvern, PA, (8)Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (9)Center for Autism Research, Philadelphia, PA

22 136.022 "Tots Guide - Track and Act", an Online Early Developmental Screening Tool for Parents A. David[1], P. Sunil[1], D. Murnal[1], S. Kumar[1], A. Jayaraman[1] and N. N. Mundkur[2], (1)Center for Child Development and Disabilities, Bangalore, India, (2)Centre for Child Development and Disabilities, bengaluru, INDIA

23 136.023 Integration of Knowledge Extracted from Clinical Notes with Patient Reported Outcomes and Genetic Reports for Advancing Research into Phelan Mcdermid Syndrome C. K. Saravanamuthu[1], M. Wack[1], C. Hassen-Khodja[1], S. Finan[2], G. Savova[2], M. O'Boyle[3], G. Bliss[4], A. Cornell[3], L. Horn[3], R. Davis[3], J. E. Jacobs[5], I. S. Kohane[6] and P. Avillach[1], (1)DBMI - Harvard Medical School, Boston, MA, (2) Boston Children's Hospital, Boston, MA, (3)Phelan-McDermid Syndrome Foundation, Arlington, VA, (4)Phelan-McDermid Syndrome Foundation, Houston, TX, (5)Phelan-McDermid Syndrome Foundation, Baltimore, MD, (6)Harvard Medical School, Boston, MA

24 136.024 Automated Measurement of Head Movement Coordination in Infant-Parent Dyads and Later ASD Outcomes K. B. Martin[1], D. S. Messinger[2], Z. Hammal[3] and J. F. Cohn[4], (1) Psychology, University of Miami, Coral Gables, FL, (2)Psychology, University of Miami, Miami, FL, (3)Carnegie Mellon University, Robotics Institute, Pittsburgh, PA, (4)Psychology, University of Pittsburgh, Pittsburgh, PA

25 136.025 Application of Semi-Automated Video Scene Coding for Reducing Manual ROI Marking in Eye-Tracking-Based ASD Studies A. Ataybi[1], A. Naples[2] and F. Shic[3], (1)University of Washington, Seattle, WA, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Seattle Children's Research Institute, Seattle, WA

26 136.026 Topological Data Analysis Reveals Meaningful Subgroups in ASD Research Data Based on Neural Responsivity and Behavioral Measures T. McAllister[1], A. Naples[2], S. A. A. Chang[3], S. Hasselmo[4], M. J. Rolison[1], J. A. Trapani[1], S. M. Malak[1], K. A. McNaughton[1], T. C. Day[1], T. A. Halligan[4], B. Lewis[5], E. Jarzabek[1], K. Ellison[1], K. Stinson[6], J. Wolf[7] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Yale University, New Haven, CT, (4)Child Study Center, Yale University, New Haven, CT, (5)Yale School of Medicine, Darien, CT, (6)Yale University- Child Study Center, Milford, CT, (7)Yale Child Study Center, New Haven, CT

27 136.027 Design of an Interactive Pretending System for Young Children with ASC M. Dragomir[1], H. Pain[1], S. Fletcher-Watson[2] and A. Manches[3], (1)School of Informatics, University of Edinburgh, Edinburgh, United Kingdom, (2)University of Edinburgh, Edinburgh, UNITED KINGDOM, (3)Moray House School of Education, Edinburgh University, Edinburgh, United Kingdom

28 136.028 Engagement of Children with ASD Using a Tactile Robot R. Spence[1], T. S. Chou[2], L. Chukoskie[1], J. Krichmar[2] and J. Townsend[1], (1)University of California, San Diego, La Jolla, CA, (2)Cognitive Science, University of California, Irvine, Irvine, CA

29 136.029 Robots Teaching Autistic Children to Mind Read: A Feasibility Study of Child-Robot Interaction during Emotion-Recognition Training A. M. Alcorn[1], T. Tavassoli[1], S. Babović Dimitrijevic[2], S. Petrović[2], S. Skendzic[2], V. Petrović[2] and E. Pellicano[3], (1)UCL Institute of Education, University College London, Centre for Research in Autism and Education (CRAE), London, United Kingdom, (2)Serbian Society of Autism, Belgrade, Serbia, (3)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

30 136.030 Triadic Human-Robot Conversation for Easier Disclosing: A Case Study Involving Individuals with Autism Spectrum Disorder J. Shimaya[1], Y. Yoshikawa[1], H. Kumazaki[2], Y. Matsumoto[3], M. Kikuchi[2], H. Ishiguro[4] and M. Miyao[5], (1)Osaka University / JST ERATO Ishiguro Symbiotic Human-Robot Interaction Project, Toyonaka, JAPAN, (2)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan, (3)AIST, Tsukuba, Japan, (4)Osaka University / JST ERATO Ishiguro Symbiotic Human-Robot Interaction Project, Toyonaka, Japan, (5)National Center for Chid Health Development,, Tokyo, JAPAN

## Panel Session

### 137 - Understanding Barriers That Families from Racial/Ethnic Minority Groups in the United States Face in Obtaining an Autism Spectrum Disorder Diagnosis and Services for Their Children

10:30 AM - 12:00 PM - Yerba Buena 3-6

*Session Chair:* A. M. Angell, *Occupational Therapy, University of Illinois at Chicago, Chicago, IL*

*Discussant:* S. Magana, *Disability and Human Development, University of Illinois at Chicago, Chicago, IL*

Children in the United States from racial/ethnic minority groups and low-income families experience persistent disparities in autism spectrum disorder (ASD) diagnosis and services. Compared to middle class White children, they are more likely to experience delays in diagnosis, less likely to be diagnosed at all, and are less likely to receive timely, high quality healthcare services. Research has made clear the existence of these disparities, but little is understood about their causes. Using diverse methodologies, this panel presents research on barriers that parents from racial/ethnic minority groups, and/or low income parents, face in obtaining an ASD diagnosis and services for their children in the United States. Barriers include both parent and provider factors, including parent knowledge about and experience with ASD; implicit provider biases in primary care screening/referrals; and parent access to information about safe and effective ASD treatments. These findings have implications for reducing disparities through targeted parent and provider education programs.

10:30 ▸137.001 Autism Spectrum Disorder Knowledge and Experience Among Low-Income Parents Attending WIC K. Zuckerman[1], A. E. Chavez[2], C. Regalado[1], O. J. Lindly[3] and J. A. Reeder[4], (1)Division of General Pediatrics, Oregon Health & Science University, Portland, OR, (2)Oregon Health & Science University, Portland, OR, (3)College of Public Health and Human Sciences, School of Social and Behavioral Health Sciences, Oregon State University, Corvallis, OR, (4)Oregon WIC Program, Oregon Health Authority, Portland, OR

10:50 ▸137.002 Evidence for Implicit Bias in the Implementation of Autism Screening Tools in Primary Care C. Nadler[1], G. Winningham[1], K. J. Reid[1], C. Low-Kapalu[1], L. Pham[2], K. Williams[1], G. Rahm[1] and S. Nyp[1], (1)Children's Mercy Kansas City, Kansas City, MO, (2)Baylor College of Medicine, Houston, TX

11:10 ▸137.003 The Road to Diagnosis: Perceptions, Concerns, and Experiences of Racial and Ethnic Minority Parents of Children with Autism Spectrum Disorders W. Zeleke[1] and T. L. Hughes[2], (1)Counseling, Psychology and Special Education, Duquesne University, Pittsburgh, PA, (2)Duquesne University, Pittsburgh, PA

11:30 ▸137.004 "It's like You've Got to Do Everything on Your Own": Latino Parents› Experiences of Traditional and Alternative Medicine for Their Children with Autism Spectrum Disorder in Los Angeles A. M. Angell[1], L. Yin[2] and O. Solomon[3], (1) Occupational Therapy, University of Illinois at Chicago, Chicago, IL, (2)Children's Hospital Los Angeles/Keck School of Medicine of USC, los angeles, CA, (3)University of Southern California, Los Angeles, CA

11:50 Discussant

## Panel Session

### 138 - Autism with Known Genetic Associations: Implications for 'Idiopathic' Autism

10:30 AM - 12:00 PM - Yerba Buena 7

*Session Chair:* C. C. Clements, *The Center for Autism Research/ CHOP, Philadelphia, PA*

*Discussant:* P. Wang, *Pediatrics, Yale University School of Medicine, New Haven, CT*

Genetic syndromes associated with autism spectrum disorder (ASD) have been studied intensely in the hope of understanding the biology of these disorders and of ASD in general. These ASDs associated with mutations have become an important part of a genotype-first strategy for parsing the heterogeneity of ASD, illuminating the pathophysiology, and defining targets for pharmacological treatment. Prime examples include research on Fragile X and copy number variants such as 16p11.2 and 22q11.2. However, it remains unknown how well treatments based on these genetically defined forms of ASD will generalize to 'idiopathic' ASD. This uncertainty stems from the genomic heterogeneity of ASD and from the phenotypic heterogeneity within each syndrome. This panel examines four examples of this genotype-first strategy: Fragile X, 22q11.2 copy number variants, and disruptions in SCN2A and DYRK1A. Discussion will focus on phenotypic heterogeneity, implications for translational research, and the challenges to assessing clinical outcomes. Presentations will include an analysis of familial phenotypes (DYRK1A), identification of a critical region for ASD risk in 22q11.2, genotype-phenotype correlations observed in SCN2A mutations, and differences in language and social communication trajectories between idiopathic ASD and Fragile X syndrome.

10:30 138.001 Opposing Effects on NaV1.2 Function Underlie Differences Between SCN2A Variants Observed in Individuals with Autism Spectrum Disorder or Infantile Seizures R. Ben-Shalom[1], C. M. Keeshen[1], K. N. Berrios[1], J. Y. An[1], K. J. Bender[2] and S. J. Sanders[2], (1)UCSF School of Medicine, San Francisco, CA, (2)UCSF, San Francisco, CA

10:50 138.002 Increased Risk of Autism Among Individuals with Atypical 22q11.2 Deletions or Duplication Involving COMT and RANBP1 C. C. Clements[1], T. L. Wenger[2], J. Miller[3], A. B. de Marchena[4], A. Zoltowski[1], L. M. DePolo[5], D. M. McDonald-McGinn[6], E. H. Zackai[7], B. Emanuel[7] and R. T. Schultz[3], (1)The Center for Autism Research/CHOP, Philadelphia, PA, (2)Pediatrics, Craniofacial Center, Seattle, WA, (3)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, Philadelphia, PA, (5)Department of Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Children's Hospital of Philadelphia, Philadelphia, PA, (7)The Children's Hospital of Philadelphia, Philadelphia, PA

11:10 138.003 Phenotypic Presentation and the Role of Parental Phenotype in Accounting for Variability in Individuals with Disruptive DYRK1A Mutations R. K. Earl[1], C. M. Hudac[2], J. Gerdts[3] and R. Bernier[3], (1)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (2)Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA, (3) University of Washington Autism Center, Seattle, WA

11:30 138.004 Understanding the Comorbidity of Autism Spectrum Disorder and Fragile X Syndrome: Moving Beyond a Categorical Approach L. Abbeduto[1], A. J. Thurman[2] and A. McDuffie[3], (1) M.I.N.D. Institute, UC Davis, Sacramento, CA, (2)Psychiatry, M.I.N.D. Institute, UC Davis, Sacramento, CA, (3)UC Davis, Sacramento, CA

11:50 Discussant

## Panel Session
### 139 - Interventions to Improve Transition Outcomes By Strengthening Environmental Supports
10:30 AM - 12:00 PM - Yerba Buena 8

*Session Chair:* J. L. Taylor, *Vanderbilt University Medical Center, Nashville, TN*

*Discussant:* K. Hume, *University of North Carolina, Chapel HIll, Carrboro, NC*

Poor outcomes among adults with autism spectrum disorder (ASD) are well-documented and result in significant economic costs. Nearly all existing interventions focus on the adults themselves, building skills or alleviating problem behaviors. Yet, according to the International Classification of Functioning, Disability, and Health (ICF), functioning is also a product of the environments and contexts in which one finds oneself. Currently, few interventions seek to leverage supportive environments to improve outcomes for youth/adults with ASD. In this panel, we present initial findings from four interventions to improve transition outcomes by strengthening environmental supports. Presentations focus on how to improve outcomes by: (1) strengthening transition planning in schools; (2) training parents to effectively advocate for adult disability services for their son/daughter; (3) training peers to support students with ASD in post-secondary educational settings; and (4) increasing informal supports available to young adults with ASD and their families. Dr. Kara Hume will serve as the discussant. She is Co-PI for the Center on Secondary Education for Students with ASD, the largest intervention study to date focused on supporting adolescents with ASD in the high school setting, and will focus on the unique challenges of conducting intervention research in this age group across contexts.

10:30 139.001 A Randomized Controlled Trial of Compass for Transition Youth L. A. Ruble[1], M. W. Jackson[2], A. D. Rodgers[1], W. H. Wong[1], Y. Yu[3] and J. H. McGrew[4], (1)University of Kentucky, Lexington, KY, (2)University of Kentucky, Winchester, KY, (3) Indiana University - Purdue University Indianapolis, Indianapolis, IN, (4)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN

10:50 139.002 Effects of a Parent-Training Intervention on Service Access and Employment for Youth with ASD J. L. Taylor[1,2], R. M. Hodapp[2], M. M. Burke[3], S. N. Waitz-Kudla[2] and C. Rabideau[2], (1)Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)University of Illinois at Champaign-Urbana, Champaign, IL

11:10 139.003 Realist Evaluation of Specialist Peer Mentoring for University Students with ASD C. Thompson[1,2], T. Falkmer[1,2], S. Taylor[1], S. Bolte[3,4,5] and S. J. Girdler[1,2], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (4)Curtin University, Bentley, Australia, (5)Stockholm County Council, Center for Psychiatry Research, Stockholm, Sweden

11:30 139.004 Working Together: Family Education and Support Intervention for Young Adults with ASD L. E. Smith, J. S. Greenberg and M. R. Mailick, Waisman Center-University of Wisconsin, Madison, WI

11:50 Discussant

## Panel Session
### 140 - Variability at the Minimally Verbal End of the Spectrum: Evidence from Biology and Behavior
10:30 AM - 12:00 PM - Yerba Buena 9

*Session Chair:* C. DiStefano, *University of California Los Angeles, Los Angeles, CA*

*Discussant:* S. S. Jeste, *UCLA, Los Angeles, CA*

Approximately 25-30% of individuals with ASD remain minimally verbal (MV) despite access to intervention (Anderson et al., 2007; Tager-Flusberg & Kasari, 2014). Although unified by the lack of spoken language, the MV ASD population exhibits considerable heterogeneity with regard to cognitive, social and receptive language abilities (DiStefano et al., 2016; Bal et al., 2016). This variability likely results from the fact that many different pathways can lead to expressive language impairment. Improving outcomes for this subgroup of the autism spectrum requires better characterization and understanding of this variability. This panel will present research from multiple levels of investigation within the MV spectrum, from brain to behavior. Panel presentations will include electrophysiological investigation of auditory, visual and lexical processing in both MV and verbal children with ASD, prosodic and acoustic characteristics of speech in MV children, and emotional/behavioral profiles of children with ASD across language levels. Throughout the presentations, we will discuss differences between MV and verbal children with ASD, variability within the MV group, and we will consider the ways in which these findings can inform our understanding of pathways to and outcomes of language impairment in the ASD population.

10:30 140.001 Sensory Perception and Lexical-Semantic Processing in Minimally Verbal/Non-Verbal Children with ASD and Typical Controls Assessed Via Dense-Array EEG C. Cantiani[1], V. Shafer[2], Y. H. Yu[3], N. Choudhury[4] and A. A. Benasich[5], (1)Child Psychopathology Unit, Scientific Institute IRCCS Eugenio Medea, Bosisio Parini, Italy, (2)The Graduate Center, City University of New York, New York, NY, (3)Department of Communication Sciences and Disorders, St. John's University, New York, NY, (4) Psychology, Ramapo College of New Jersey, Mahwah, NJ, (5) Center for Molecular & Behavioral Neuroscience, Rutgers Univ., Newark, NJ

10:50 140.002 ERP Evidence of Semantic Processing in Children with ASD C. DiStefano[1], A. T. Marin[2], E. Baker[3] and S. S. Jeste[4], (1)University of California Los Angeles, Los Angeles, CA, (2) University of California, Los Angeles, Los Angeles, CA, (3)UCLA Center for Autism Research and Treatment, Anaheim, CA, (4) UCLA, Los Angeles, CA

11:10 140.003 Vocalizations of Minimally Verbal Children and Adolescents with Autism: A Prosodic and Acoustic Analysis J. C. Thorson[1] and H. Tager-Flusberg[2], (1)Boston University, Croydon, NH, (2)Psychological and Brain Sciences, Boston University, Boston, MA

11:30 140.004 Assessing Emotional/Behavior Problems in Children with ASD: Differences in ABC and CBCL Profiles By Language Level M. Fok[1], E. Rosenberg[1] and V. Hus Bal[2], (1)University of California, San Francisco, San Francisco, CA, (2)STAR Center for ASD & NDD; Dept of Psychiatry, University of California, San Francisco, San Francisco, CA

11:50 Discussant

## Poster Session

141 - Brain Structure (MRI, neuropathology)
12:00 PM - 1:40 PM - Golden Gate Ballroom

31 141.031 Age-Related Changes in Cortical Morphometry; A Longitudinal MRI Study of Males with Autism and Controls. E. Daly[1], A. Marshall[2], D. Andrews[3], A. Shahidiani[3], C. Ecker[4] and D. G. Murphy[1], (1)Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)King's College London, London, United Kingdom, (3)Sackler Institute for Translational Neurodevelopmental Sciences, IoPPN, King's College London, London, United Kingdom, London, United Kingdom, (4) Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany

32 141.032 Altered Functional and Structural Brain Connectivity in ASD Individuals with SHANK3 Defect C. Liu[1], D. Li[2] and X. Xu[2], (1)15111240007@Fudan.Edu.Cn, Children's Hospital of Fudan University, Shanghai, China, (2)Children's Hospital of Fudan University, Shanghai, China

33 141.033 Amygdala Growth Trajectories, Fear Potentiated Startle Response, and Anxiety in Children with Autism Spectrum Disorder L. Libero[1], A. Schneider[2], D. Hessl[3], B. Winder-Patel[4], M. Solomon[5], C. C. Coleman[5], N. Sharma[3], C. W. Nordahl[5] and D. G. Amaral[5], (1) Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (2)Pediatrics / MIND Institute, University of California at Davis, Sacramento, CA, (3)UC Davis MIND Institute, Sacramento, CA, (4)MIND Institute, University of California, Davis, Sacramento, CA, (5)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

34 141.034 Anatomical Connectivity Abnormalities and Social Perception Deficits in Children with ASD: A MRI-DTI and Eye-Tracking Study A. Vincon-Leite[1], A. Saitovitch[1], H. Lemaître[2], J. M. Tacchella[1], E. Rechtman[1], E. Douard[1], N. Chabane[3], A. Philippe[4], D. Grevent[1], R. Calmon[1], F. Brunelle[1], N. Boddaert[1] and M. Zilbovicius[1], (1)INSERM U1000, Institut Imagine, Paris, France, (2)INSERM U1000, Institut Imagine, Université Paris Sud, Paris, France, (3)INSERM U1000, Paris, France, (4)UMR 1163, Institut Imagine, Paris, France

35 141.035 Associations Between White Matter Diffusion Properties and ASD Impairments: A Tract-Based Spatial Statistics Study C. Buckless[1], D. Crocetti[2], N. Wymbs[2,3] and S. H. Mostofsky[2], (1)716 North Broadway, Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Neurology, Johns Hopkins University, Baltimore, MD

36 141.036 Biological Sex Modulations on Cortical Thickness in Autism Spectrum Disorder: An Analysis of Autism Brain Imaging Data Exchange II A. K. Azeez, X. Di and B. Biswal, Biomedical Engineering, New Jersey Institute of Technology, Newark, NJ

37 141.037 Brain Enlargement Persists through Adolescence in ASD, but Is Not Predicted By Clinical Severity L. D. Yankowitz[1,2], J. D. Herrington[3], J. Pereira[4], B. E. Yerys[5], J. Pandey[4] and R. T. Schultz[4], (1)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadlephia, PA, (2)Department of Psychology, University of Pennsylvania, Philadelphia, PA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research/CHOP, Philadelphia, PA

38 141.038 Brain Network Organization Correlates with Autistic Features in Preschoolers with Autism Spectrum Disorders and Their Fathers L. Billeci[1], S. Calderoni[2], A. Lagomarsini[3], E. Conti[4], A. Narzisi[2], C. Gesi[3], C. Carmassi[3], L. Dell'Osso[3], G. Cioni[1,3], F. Muratori[1,3] and A. Guzzetta[1,3], (1)IRCCS Stella Maris Foundation, Pisa, Italy, (2)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (3)Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy, (4) Department of Sciences for Health Promotion and Mother and Child Care "G. D'Alessandro", University of Palermo, Palermo, ITALY

39 141.039 Cerebellar Volume in Autism: Meta-Analysis and Analysis of the Abide Cohort R. Toro[1], N. Traut[2], T. Bourgeron[3], A. Beggiato[4], A. L. Paradis[5], L. Rondi-Reig[5] and R. Delorme[2], (1) Institut Pasteur, Paris, FRANCE, (2)Institut Pasteur, Paris, France, (3) Neuroscience, Institut Pasteur, Paris, France, (4)Institut Pasteur, Paris, Paris, FRANCE, (5)Université Pierre et Marie Curie, Paris, France

40 141.040 Chandellier Cells Modify the Balance of Excitation / Inhibition in Autism V. Martinez Cerdeno[1], J. Ariza Torres[2] and E. Hashemi[3], (1)UC Davis, Sacramento, CA, (2)Pathology and Lab Medicine, UC Davis, Sacramento, CA, (3)Uc Davis, Sacramento, CA

41 141.041 Changes in Local Gyrification Index Across Childhood and Adolescence in Autism Spectrum Disorder (ASD) J. S. Kohli[1], R. A. Carper[1], C. H. Fong[1] and R. A. Müller[2], (1)Psychology, San Diego State University, San Diego, CA, (2)Brain Development Imaging Laboratory, Department of Psychology, San Diego State University, San Diego, CA

42 141.042 Cortical Thickness and ASD in 22q11.2 Deletion Syndrome; An International Collaboration M. Gudbrandsen[1,2], E. Daly[2], C. M. Murphy[2], L. Kushan[3], D. Sun[3], D. G. Murphy[2], C. Ecker[4], C. Bearden[3] and M. C. Craig[5], (1)The Sackler Institute for Translational Neurodevelopmental Sciences, IoPPN, King's College London, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Department of Psychiatry and Biobehavioral Sciences, Semel Institute for Neuroscience and Human Behavior, University of California, Los Angeles, CA, (4)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany, (5)IoPPN, London, UNITED KINGDOM

43 141.043 Cross-Disorder Comparison of Idiopathic Autism, Fragile X, Angelman Syndrome, and Typical Development: An MRI and DTI Study of Brain Structure M. D. Shen[1], M. Styner[1], M. R. Swanson[1], S. H. Kim[1], B. Philpot[1,2], J. Piven[1] and H. C. Hazlett[1], (1)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC Neuroscience Center; Department of Cell Biology & Physiology, University of North Carolina at Chapel Hill, Chapel Hill, NC

44 141.044 Developing White Matter Microstructure Networks in Autism Spectrum Disorders D. C. Dean[1], B. G. Travers[1], J. Villaruz[1], A. A. Freeman[1], N. Adluru[1], B. A. Zielinski[2], M. D. Prigge[2], P. T. Fletcher[2], J. S. Anderson[2], E. D. Bigler[3], N. Lange[4], J. E. Lainhart[1] and A. L. Alexander[1], (1)University of Wisconsin - Madison, Madison, WI, (2)University of Utah, Salt Lake City, UT, (3)Brigham Young University, Provo, UT, (4)McLean Hospital, Cambridge, MA

45 141.045 Diffusion Tensor Imaging in Unaffected Siblings of Individuals with Autism: A Pilot Study Using Tract-Based Spatial Statistics E. Lecarie[1], J. Lei[1], H. Turner[1], D. Yang[2,3], P. E. Ventola[1], D. G. Sukhodolsky[1], K. A. Pelphrey[4] and R. J. Jou[4], (1)Yale Child Study Center, New Haven, CT, (2)Children's National Health System, Washington, DC, (3)Autism and Neurodevelopmental Disorders Institute, The George Washington University, Washington, DC, (4)Yale University, New Haven, CT

46 141.046 Examination of Anterior-Posterior Connectivity in Children with Autism Spectrum Disorder A. Crippa[1,2,3], D. Crocetti[2], K. Hirabayashi[4] and S. H. Mostofsky[2], (1)University of Milano-Bicocca, Milano, Italy, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Scientific Institute, IRCCS Eugenio Medea, Bosisio Parini, Italy, (4)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD

47 141.047 Head Circumference and Brain Volume Trends in Autism Spectrum Disorder J. Crucitti[1], P. G. Enticott[2] and M. A. Stokes[3], (1) Deakin University, Geelong, Australia, (2)Deakin University, Geelong, AUSTRALIA, (3)School of Psychology, Deakin University, Melbourne, Australia

48 141.048 Increased Global Covariance of Cortical Volume in Children with ASD A. Michael[1], C. Dougherty[1] and C. Zhang[1,2], (1) Autism and Developmental Medicine Institute, Geisinger Health System, Lewisburg, PA, (2)Rochester Institute of Technology, Rochester, NY

49 141.049 Mapping Developmental Trajectories of Brain White Matter from Birth to Six Months Using Diffusion Tensor Imaging: A Preliminary Study L. Li[1], S. Shultz[1], M. Zeydabadinezhad[1], A. Klin[2] and W. Jones[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

50 141.050 Motor System Integrity in Older Adults with Autism Spectrum Disorder B. R. Deatherage[1], B. B. Braden[2], C. J. Smith[3], T. K. Glaspy[4], M. K. McBeath[5], A. M. Thompson[5], E. Wood[6], D. Vatsa[7] and L. Baxter[1], (1)Barrow Neurological Institute, Phoenix, AZ, (2)Speech and Hearing Science, Arizona State University, Tempe, AZ, (3)Southwest Autism Research & Resource Center, Phoenix, AZ, (4)Tufts University, Boston, MA, (5)Psychology, Arizona State University, Tempe, AZ, (6) Xavier Preparatory Academy, Phoenix, AZ, (7)BASIS Charter School, Scottsdale, AZ

51 141.051 Multimodal Non-Sedated MRI during an RCT of Simvastatin in Neurofibromatosis Type 1 (NF1)-Syndromic Autism. M. Tziraki[1], S. Garg[2], J. Mellor[3], H. Haroon[1], L. Parkes[4], S. Williams[1], J. Keane[5], J. Green[6] and S. M. Stivaros[1,3,7], (1)Imaging Sciences, University of Manchester, Manchester, United Kingdom, (2)University of Manchester, Manchester, UNITED KINGDOM, (3)Computer Science, University of Manchester, Manchester, United Kingdom, (4)Division of Neuroscience and Experimental Psychology, University of Manchester, Manchester, United Kingdom, (5)Computer Science, Unversity of Manchester, Manchester, United Kingdom, (6)University of Manchester, Manchester, United Kingdom, (7)Academic Dept of Radiology, Royal Manchester Children's Hospital, Manchester, United Kingdom

52 141.052 Sex Differences in Subcortical Morphometry of Children with ASD K. Hirabayashi[1], D. Crocetti[2], B. C. Lee[3], X. Tang[4,5], D. J. Tward[3] and S. H. Mostofsky[2], (1)Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Center for Imaging Science, Johns Hopkins University, Baltimore, MD, (4)Carnegie Mellon University, Pittsburgh, PA, (5)Sun Yat-Sen University, Guangzhou, China

53 141.053 Stereological Study of the Superior Temporal Gyrus in ASD R. Weir[1] and C. M. Schumann[2], (1)UC Davis, Sacramento, CA, (2) Psychiatry & Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

54 141.054 The Impacts of Dysregulation on Cortical Thickness, Surface Area and Gyrfication for Males with and without Autism Spectrum Disorders H. C. Ni[1], H. Y. Lin[2], Y. J. Chen[3], W. Y. I. Tseng[3] and S. S. F. Gau[2], (1)Chang Gung Memorial Hospital- Linkou Medical Center, Taipei, Taiwan, (2)National Taiwan University Hospital & College of Medicine, Taipei, TAIWAN, (3)National Taiwan University Hospital, Taipei, Taiwan

55 141.055 White Matter Abnormalities in Girls with Autism: A Tract-Based Spatial Statistics Study H. Turner[1], J. Lei[1], E. Lecarie[1], D. Yang[2,3], P. E. Ventola[1], D. G. Sukhodolsky[1], K. A. Pelphrey[4] and R. J. Jou[4], (1) Yale Child Study Center, New Haven, CT, (2)Children's National Health System, Washington, DC, (3)Autism and Neurodevelopmental Disorders Institute, The George Washington University, Washington, DC, (4)Yale University, New Haven, CT

56 141.056 White Matter Microstructure As Candidate Brain Phenotypes of Autism **J. Villaruz**[1], D. C. Dean[1], B. G. Travers[1], A. A. Freeman[1], B. A. Zielinski[2], M. D. Prigge[2], J. S. Anderson[2], E. D. Bigler[3], N. Lange[4], S. J. Schrodi[5], M. Leppert[6], N. Matsunami[7], A. L. Alexander[1] and J. E. Lainhart[1], (1)University of Wisconsin - Madison, Madison, WI, (2)University of Utah, Salt Lake City, UT, (3)Brigham Young University, Provo, UT, (4)McLean Hospital, Cambridge, MA, (5)Marshfield Clinic Research Foundation, Marshfield, WI, (6)University of Utah, Department of Human Genetics, Salt Lake City, UT, (7)University of Utah School of Medicine, Salt Lake City, UT

## Poster Session
142 - Diagnostic, Behavioral & Intellectual Assessment
12:00 PM - 1:40 PM - Golden Gate Ballroom

57 142.057 A Comparison of Aberrant Behavior Checklist (ABC) Factor Scores in Children with Autism Spectrum Disorder (ASD) and Prader Willi Syndrome (PWS) **B. P. Taylor**, E. A. Doernberg, A. Kabasakalian, C. J. Ferretti and E. Hollander, Albert Einstein College of Medicine-Montefiore Medical Center, Bronx, NY

58 142.058 A Comparison of Variability in Change Across Commonly Used Measures of Treatment Outcomes for Youth with ASD **K. S. Dickson**[1,2], S. R. Rieth[1,3], J. Suhrheinrich[1,2] and A. C. Stahmer[1,4], (1)Child and Adolescent Services Research Center, San Diego, CA, (2)University of California, San Diego, La Jolla, CA, (3)San Diego State University, San Diego, CA, (4)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

59 142.059 A Proposed Model of Intelligence and Its Implications for Children with Autism Spectrum Disorder **L. A. Oakes** and T. Smith, University of Rochester Medical Center, Rochester, NY

60 142.060 A Stratified Analysis of Subtypes in Autism Spectrum Disorders with Unsupervised Machine Learning **E. Stevens**[1], D. Dixon[2] and E. Linstead[3], (1)Computer Science, Chapman University, Orange, CA, (2)Center for Autism and Related Disorders, Woodland Hills, CA, (3) Chapman University, Lakewood, CA

61 142.061 A Validation Study of the Observation for Autism Screening (OERA), a New and Brief Low-Cost Instrument to Screening for ASD C. S. Paula[1], D. Bordini[2], G. Rodrigues da Cunha[3], **S. H. Ribeiro**[4], D. Brunoni[5], A. C. Moya[6], J. J. Mari[7] and H. Cogo-Moreira[7], (1) Developmental Disorder Program, Mackenzie Presbyterian Univesrsity, Sao Paulo, BRAZIL, (2)Unifesp, Sao Paulo, BRAZIL, (3)Consultório Particular, Sao Paulo, Brazil, (4)UNIFESP, Sao Paulo, BRAZIL, (5) Developmental Disorders Postgraduate Course, Mackenzie Presbiterian University, São Paulo, Brazil, (6)Psyquiatry, Federal Unversity of São Paulo, São Paulo, Brazil, (7)psychiatry, Federal Unversity of São Paulo, São Paulo, Brazil

62 142.062 A Window of Opportunity for Preventing Challenging Behavior: Increase in Heartrate Prior to Episodes of Challenging Behavior in Preschoolers with Autism **H. J. Nuske**[1], E. Finkel[1], M. Pellecchia[1], J. D. Herrington[2], V. Parma[3], D. Hedley[4] and C. Dissanayake[5], (1) University of Pennsylvania, Philadelphia, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)SISSA, Trieste, ITALY, (4)Olga Tennison Autism Research Centre, Melbourne, AUSTRALIA, (5)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

63 142.063 ADOS Autism Severity As a Predictor of Language Ability in Boys and Girls with Autism Spectrum Disorder **J. W. Keller**[1], C. A. Nelson[1], K. A. Pelphrey[2], L. Gabard-Durnam[1] and S. J. Webb[3], (1) Boston Children's Hospital, Boston, MA, (2)Yale University, New Haven, CT, (3)University of Washington, Seattle, WA

64 142.064 ASD Concordance of Twins Across DSM-IV-TR and DSM-5 Diagnostic Criteria **E. P. McKernan**[1], N. Russo[1], C. Burnette[2], E. A. Kaplan[3], J. Kopec[1], N. Shea[1] and W. R. Kates[4], (1)Syracuse University, Syracuse, NY, (2)University of New Mexico, Albuquerque, NM, (3)Psychology, Syracuse University, Syracuse, NY, (4)Psychiatry and Behavioral Sciences, SUNY Upstate Medical University, Syracuse, NY

65 142.065 ASD and Neurodevelopmental Characterization of Youth with XYY Syndrome **L. Joseph**[1], A. Thurm[2], L. Henry[2] and A. Raznahan[3], (1)MSC 1255, National Institute of Mental Health, Bethesda, MD, (2) National Institute of Mental Health, Bethesda, MD, (3)NIH IRP, NIMH, Child Psychiatry Branch, Bethesda, MD

66 ▸142.066 Age of First Concerns and Age of ASD Diagnosis in a Sample of Latin American Children **C. Montiel-Nava**[1], D. Valdez[2], A. Rosoli[3], C. S. Paula[4], R. A. Garcia[5], S. H. Cukier[6], G. Garrido[7] and A. Rattazzi[6], (1)Graduate Studies, Universidad Latina de Panama, Panama, Panama, (2)FLACSO, Buenos Aires, Argentina, (3)OEI, Santo Domingo, Dominican Republic, (4)Developmental Disorder Program, Mackenzie Presbyterian Univesrsity, Sao Paulo, BRAZIL, (5)Universidad de Chile, Santiago, CHILE, (6)PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Argentina, (7)Universidad de la República, Montevideo, URUGUAY

67 142.067 Crowdsourced Validation of a Machine Learning Classification System for Autism and ADHD **M. Duda**[1], N. Haber[2] and D. Wall[3], (1)University of Michigan, Ann Arbor, MI, (2)Stanford University, Stanford, CA, (3)Stanford University, Palo Alto, CA

68 142.068 Agreement and Accuracy of ASD Diagnostic Instruments in a Sample of Adults with Average or Above-Average Intelligence **L. Fusar-Poli**, N. Brondino, M. Rocchetti, C. Panisi, U. Provenzani, S. Damiani, M. Vercesi and P. Politi, Department of Brain and Behavioral Sciences, University of Pavia, Pavia, Italy

69 142.069 An Examination of School Psychologists' Confidence in Conducting Evaluations for Autism Spectrum Disorder **L. S. Woods**[1,2], M. R. Silva[3,4], S. Simons[4,5], S. Gillespie[6] and L. Dilly[7], (1)University of North Carolina at Chapel Hill, Mebane, NC, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University, Atlanta, GA, (3)Unviersity of Massachusetts Boston, Boston, MA, (4)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (5)Oklahoma State Unviersity, Stillwater, OK, (6)Emory University School of Medicine, Atlanta, GA, (7)Marcus Autism Center, Atlanta, GA

70 142.070 An International Clinical Cross-Sectional Study on Ability and Disability in Autism Spectrum Disorder (ASD) Using the WHO ICF-CY Framework S. Mahdi[1], K. Albertowski[2], O. Almodayfer[3], V. Arsenopoulou[4], S. Carucci[5], J. Dias[6], M. Khalil[3], A. Knuppel[7], A. Langmann[8], M. B. Lauritsen[7], G. Rodrigues da Cunha[9], T. Uchiyama[10], N. Wolff[2] and S. Bolte[11], (1)Women's and Children's Health, Karolinska Institutet, Stockholm, Stockholm, Sweden, (2)Uniklinikum Dresden, Dresden, Germany, (3)Ministry of National Guard -Health Affairs, Riyadh, Saudi Arabia, (4)Theotokos Foundation, Ilion, Greece, (5)Microcitemico-NPIA, Cagliari, Italy, (6)Centro Hospitalar do Porto - Departamento de Pedopsiquiatria, Porto, Portugal, (7)Research Unit for Child and Adolescent Psychiatry, Aalborg University Hospital, Aalborg, DENMARK, (8)Philipps-Universität Marburg, Fachbereich Psychologie, AG Kinder- und Jugendpsychologie, Marburg, Germany, (9)Consultório Particular, Sao Paulo, Brazil, (10)Department of Clinical Psychology, Taisho University, Tokyo, JAPAN, (11)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden

71 ▸ 142.071 Analysis of Autism Diagnostic Observation Schedule (ADOS) Applied to Chilean Children with Suspicion of Autism Spectrum Disorder (ASD) A. C. Yanez, C. López, M. Troncoso, P. Maira, P. Rebolledo, K. Guajardo and A. Villalba, Child Neuropsychiatry Service, San Borja Arriaran Hospital, Santiago, Chile

72 142.072 Anandamide As a Blood-Based Biomarker in Children with Autism Spectrum Disorder D. S. Karhson[1], K. M. Krasinska[2], R. A. Libove[1], J. Ahloy Dallaire[3], A. S. Chien[2], J. P. Garner[3], A. Y. Hardan[1] and K. J. Parker[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)Stanford University Mass Spectrometry, Stanford, CA, (3)Comparative Medicine, Stanford University, Stanford, CA

73 142.073 Anxiety Problems Relate to Teacher-Reported Classroom Performance in Children with ASD but Not ADHD M. F. Skapek[1], L. G. Anthony[2], A. D. Verbalis[2], C. E. Pugliese[3], A. B. Ratto[3], J. Safer-Lichtenstein[4], S. Seese[2], K. Tiplady[5], D. Limon[6], K. Hardy[2], B. J. Anthony[4] and L. Kenworthy[2], (1)Children's National Health System, Rockville, MD, (2)Children's National Health System, Washington, DC, (3) Children's National Medical Center, Washington, DC, (4)Center for Child and Human Development, Georgetown University, Washington, DC, (5) University of Florida, Ashburn, VA, (6)Children's National Medical Center, Rockville, MD

74 142.074 Application of the Brief Observation of Social Communication Change (BOSCC) to a Short Term Parent Mediated Intervention Trial K. Sterrett[1], T. Carr[2], M. L. Mattos[3], W. I. Shih[4], A. Gulsrud[5] and C. Kasari[4], (1)University of California Los Angeles, Los Angeles, CA, (2)Autism Discovery Institute, Rady Children's Hospital San Diego, San Diego, CA, (3)University of California, Los Angeles, Woodland Hills, CA, (4)University of California, Los Angeles, Los Angeles, CA, (5) UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

75 142.075 Are Diagnostic Instruments Equally Accurate at Classifying Autism Spectrum Disorder in Males and Females? E. F. Perry[1], D. H. Skuse[2], M. Murin[3] and W. Mandy[4], (1)Clinical Psychology, Royal Holloway, Egham, United Kingdom, (2)UCL GOS Institute of Child Health, London, UNITED KINGDOM, (3)Great Ormond Street Hospital for Children, London, UNITED KINGDOM, (4)University College London, London, United Kingdom

76 142.076 Assessing PTSD in Persons with Autism Spectrum Disorders T. L. Shepler[1] and A. J. Lincoln[2], (1)PsyD Clinical Psychology, Alliant International University, San Diego, CA, (2)Alliant International University, San Diego, CA

77 142.077 Assessing Social, Behavioral and Emotional Functioning in Autism: A Feasibility Pilot Study K. M. R. Hall[1], E. Grossi[1], L. Reale[2] and M. Bonati[3], (1)Villa Santa Maria scs, Tavernerio, Italy, (2)Laboratory for Mother and Child Health, Department of Public Health,, Mario Negri, Institute, Milano, Italy, (3)Laboratory for Mother and Child Health, Department of Public Health,, IRCCS-Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy

78 142.078 Assessing Visuomotor Deficits in Children with SPD A. Brandes-aitken, J. A. Anguera, J. Owen, P. Mukherjee and E. Marco, University of California, San Francisco, SAN FRANCISCO, CA

79 142.079 Autism Quotient Scores Modulate the Perception and Production of Text Specificity in Typical Adult Females J. J. Li[1], J. Parish-Morris[2], L. Bateman[3] and A. Nenkova[1], (1)Computer and Information Science, University of Pennsylvania, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)The Center for Autism Research/CHOP, Philadelphia, PA

80 142.080 Autism Screening in High-Risk Children in a Community Early Intervention Setting D. Thao[1], K. L. Reeb[2], E. Hammer[3], I. Toll[3], M. Green[3], S. Anderson[3], M. Yudell[4] and D. L. Robins[5], (1)AJ Drexel Autism Institute, Philadelphia, PA, (2)AJ Drexel Autism Institute - Drexel University, Philadelphia, PA, (3)Elwyn SEEDS, Philadelphia, PA, (4)Drexel University School of Public Health, Philadelphia, PA, (5)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

81 142.081 Broader Autism Phenotype in the Mother Is Associated with Discordance in the Social Communication Questionnaire Compared to Best Clinician Estimate E. Rubenstein[1], L. D. Wiggins[2], G. C. Windham[3], L. A. Schieve[2], C. DiGuiseppi[4], L. Young[5] and J. L. Daniels[1], (1)University of North Carolina, Chapel Hill, NC, (2)Centers for Disease Control and Prevention, Atlanta, GA, (3)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (4)University of Colorado - Denver, Aurora, CO, (5)University of Pennsylvania, Philadelphia, PA

82 142.082 Case Series of Subclinical ASD: Evidence Towards the Female Protective Effect M. L. Braconnier, D. G. Sukhodolsky, S. M. Abdullahi, J. Lei, C. Kautz and P. E. Ventola, Yale Child Study Center, New Haven, CT

83 142.083 Categorical Meets Dimensional: A Fuzzy Categorical Conception of Autism Spectrum B. Tunc[1], D. Parker[1], J. Pandey[2], R. Verma[1] and R. T. Schultz[2], (1)University of Pennsylvania, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

84 ▸ 142.084 Child and Parent Factors That Influence Social Communication Questionnaire Scores: An Examination of an English- and Spanish-Speaking Sample N. M. Reyes[1], E. Moody[2], K. Kaparich[3], S. Davidon[4], S. Rosenberg[5] and L. Kubicek[6], (1)Box C-234, University of Colorado - Denver, Aurora, CO, (2)University of Colorado, Denver, Aurora, CO, (3)University of Colorado Denver, Aurora, CO, (4)Department of Pediatrics, University of Colorado, AMC, Denver, CO, (5)University of Colorado, Aurroa, CO, (6)University of Colorado, Aurora, CO

85 142.085 Cluster Analysis of Daily Living Skills in School-Aged Children with ASD A. Duncan, A. Lonnemann and R. Adams, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

86 142.086 Comparing ASD Screening Measures for Toddlers and Preschoolers S. M. Kanne[1], L. A. Carpenter[2], C. Lajonchere[3] and Z. Warren[4], (1)Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (2)Medical University of South Carolina, Charleston, SC, (3)UCLA Institute for Precision Health, Los Angeles, CA, (4)Vanderbilt University, Nashville, TN

87 142.087 Comparison of Behavioral Outcomes and Crisis Service Utilization Across the Six Specialized Inpatient Units in Phase I of the Autism Inpatient Collection (AIC) K. A. Smith[1,2], S. L. Santangelo[3], R. Gabriels[4], G. Righi[5] and M. Siegel[6], (1)Maine Medical Center Research Institute, Portland, ME, (2)Tufts University School of Medicine, Boston, MA, (3)Maine Medical Center, Portland, ME, (4)Children's Hospital Colorado, Aurora, CO, (5)Alpert Medical School of Brown University, Rumford, RI, (6)Maine Medical Center - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME

88 142.088 Conceptual Coverage of Vineland Adaptive Behavior Scales, Second Edition (Vineland™-II): Concept Mapping to a Patient-Centered Conceptual Model of Autism Spectrum Disorder (ASD) T. Willgoss[1], F. A. McDougall[2], F. Bolognani[3], L. Murtagh[3] and E. Anagnostou[4], (1)Roche Products Ltd, Welwyn Garden City, United Kingdom, (2)Patient Centered Outcomes Research, Roche Products Ltd, Welwyn Garden City, United Kingdom, (3)F. Hoffmann - La Roche AG, Basel, SWITZERLAND, (4)University of Toronto, Toronto, ON, Canada

89 142.089 The Minimal Clinically-Important Difference (MCID) on the Vineland-II: Analysis of Data from 3,400 Individuals with ASD F. Bolognani[1], T. Charman[2], C. H. Chatham[3], X. Liogier D'ardhuy[4], M. del Valle Rubido[1], E. Eule[5], A. Fedele[6], A. Y. Hardan[7], E. Loth[8], L. Murtagh[1], A. San Jose Caceres[9], L. Sikich[10], L. Snyder[11], K. Taylor[12], J. E. Tillmann[2], P. E. Ventola[13], K. L. Walton-Bowen[14], P. Wang[15] and T. Willgoss[16], (1)F. Hoffmann - La Roche AG, Basel, SWITZERLAND, (2) Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Neuroscience, Ophthalmology, and Rare Diseases (NORD) Roche Pharma Research and Early Development Roche Innovation Center Basel, Hoffmann La Roche, Basel, SWITZERLAND, (4)Neuroscience, Ophthalmology and Rare Diseases, F. Hoffmann-La Roche Ltd, Basel, Switzerland, (5)?Roche Pharmaceutical Research and Early Development - NORD, Basel, SWITZERLAND, (6) Autism Speaks, Mullica Hill, NJ, (7)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (8)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9) Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (10)Duke Center for Autism and Brain Development, Durham, NC, (11)Simons Foundation, New York, NY, (12)Neuroscience, Ophthalmology, and Rare Diseases (NORD) Roche Pharma Research and Early Development Roche Innovation Center Basel, F. Hoffmann-La Roche Ltd, Basel, Switzerland, (13)Yale Child Study Center, New Haven, CT, (14)Seaside Therapeutics, Cambridge, MA, (15)Pediatrics, Yale University School of Medicine, New Haven, CT, (16)Hoffmann-La Roche, Basel, Switzerland

90 142.090 Age-Binned Normalization of Vinelandtm-II Increases Variability in Standard Scores: Implication for Clinical Trials in ASD. J. Hipp[1], K. Taylor[1], C. H. Chatham[2] and F. Bolognani[3], (1)Neuroscience, Ophthalmology, and Rare Diseases (NORD) Roche Pharma Research and Early Development Roche Innovation Center Basel, F. Hoffmann-La Roche Ltd, Basel, Switzerland, (2)Neuroscience, Ophthalmology, and Rare Diseases (NORD) Roche Pharma Research and Early Development Roche Innovation Center Basel, Hoffmann La Roche, Basel, SWITZERLAND, (3)Neuroscience, Ophthalmology, and Rare Diseases (NORD) Roche Pharma Research and Early Development Roche Innovation Center Basel, F. Hoffmann - La Roche AG, Basel, Switzerland

91 142.091 Vineland Adaptive Behavior Scale in Multicenter International Clinical Trials: Challenges and Solutions for a Successful Implementation. L. Kingery[1], P. E. Ventola[2], M. del Valle Rubido[3], M. Nallewar[4], X. Liogier D'ardhuy[5], C. Goeldner[6], F. Bolognani[3], O. Khwaja[3] and V. Lo[4], (1)Cogstate, Geneva, NY, (2)Yale Child Study Center, New Haven, CT, (3)F. Hoffmann - La Roche AG, Basel, SWITZERLAND, (4)Cogstate, New Haven, CT, (5)Neuroscience, Ophthalmology and Rare Diseases, F. Hoffmann-La Roche Ltd, Basel, Switzerland, (6)F. Hoffmann-La Roche, Basel, Switzerland

92 142.092 Development and Testing of a Health-Related Independence Measure for Young Adults with Autism Spectrum Disorder N. C. Cheak-Zamora[1], M. Teti[1] and A. Maurer-Batjer[2], (1)Department of Health Sciences, University of Missouri, Columbia, MO, (2)University of Missouri, Columbia, MO

93 142.093 Diagnostic YIELD of ASD Arena Assessment MODEL P. Manning-Courtney[1], H. L. Johnson[2], L. Kuan[3], E. Emanuelson[4], J. S. Anixt[1] and J. Meinzen-Derr[5], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Cincinnati Children's Hospital Medical Center, Monroe, OH, (3)Division of Developmental and Behavioral Pediatrics, Cininnati Children's Hospital Medical Center, Cincinnati, OH, (4)Ohio State University, Columbus, OH, (5)Biostatistics and Epidemiology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

94 142.094 Differences in the Behavioral Phenotype of Autism Spectrum Disorder in a Population Sample of Somali, White, Non-Somali Black, and Hispanic Children in Minneapolis A. N. Esler[1], J. A. Hall-Lande[2], K. Hamre[3], J. Poynter[3], A. A. Gulaid[3], L. Hallas-Muchow[3] and A. Hewitt[4], (1)Rm 340, University of Minnesota, Minneapolis, MN, (2) UCEDD, University of MN, Minneapolis, MN, (3)University of Minnesota, Minneapolis, MN, (4)U of MN, Minneapolis, MN

95 142.095 Discordance Across Time in Caregiver Report during the Autism Diagnostic Interview-Revised (ADI-R): Findings from a Canadian Inception Cohort of Children with Autism Spectrum Disorder (ASD) T. Savion-Lemieux[1], R. Bruno[2], M. Elsabbagh[3], M. Steiman[4], P. Szatmari[5], T. Bennett[6], E. Duku[7], S. Georgiades[7], P. Mirenda[8], I. M. Smith[9], T. Vaillancourt[10], W. Ungar[11], J. Volden[12], C. Waddell[13], L. Zwaigenbaum[14] and A. Thompson[7], (1)4018 St Catherine St W, Research Institute - McGill University Health Centre, Montreal, QC, Canada, (2)Research Institute of the McGill University Health Centre, Montreal, QC, CANADA, (3)McGill University, Montreal, CANADA, (4) Montreal Children's Hospital, Montreal, QC, CANADA, (5)Centre for Addiction and Mental Health, Toronto, ON, CANADA, (6)Offord Centre for Child Studies, McMaster University, Hamilton, ON, CANADA, (7)McMaster University, Hamilton, ON, CANADA, (8)University of British Columbia, Vancouver, BC, CANADA, (9)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (10)University of Ottawa, Ottawa, ON, CANADA, (11)Sick Kids Research Institute, Toronto, ON, Canada, (12)University of Alberta, University of Alberta, AB, CANADA, (13)Simon Fraser University, Vancouver, BC, V6B 5K3, CANADA, (14)University of Alberta, Edmonton, AB, CANADA

96 142.096 Does Anxiety Inflate Autism Severity Measures? A. Taheri[1], B. L. Ncube[2], A. Perry[3] and J. Koudys[4], (1)York University, Toronto, ON, Canada, (2)York University, York, ON, CANADA, (3) Psychology, York University, Toronto, ON, CANADA, (4)Centre for Applied Disability Studies, Brock University, St. Catharines, ON, Canada

97 142.097 Does the Age of Diagnosis of Autism Contribute to Differential Cognitive and Behavioral Outcomes during Middle Childhood? M. Clark[1], C. Dissanayake[2] and J. Barbaro[3], (1)Kingsbury Drive Bundoora, La Trobe University, Melbourne, VIC, Australia, (2)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia

98 142.098 EU-AIMS Clinical Network: Evaluating Sex- and Age-Related Differences in ADI-R and ADOS Scores in a Large ASD Sample J. E. Tillmann[1], M. Absoud[2], A. de Bildt[3], F. Bonnet-Brilhault[4], S. Bolte[5], S. Calderoni[6], R. Canal-Bedia[7], R. Canitano[8], P. J. Hoekstra[9], A. Kaale[10], H. Klip[11], H. McConachie[12], A. Narzisi[6], M. Pejovic-Milovancevic[13], N. Polnareva[14], M. Posada[15], P. Garcia Primo[16], H. Roeyers[17], N. N. J. Rommelse[18], S. Roux[19], R. Sacco[20], V. Scandurra[8], I. J. Oosterling[18], A. C. Stanfield[21], E. L. Woodhouse[22], M. Yaari[23], N. Yirmiya[24], E. Loth[25], J. K. Buitelaar[26], W. Spooren[27], D. G. Murphy[28] and T. Charman[29], (1)King's College London, London, England, United Kingdom, (2)Newcomen Children's Neurosciences Centre, Evelina London Children's Hospital at Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom, (3)University Medical Center Groningen, Groningen, NETHERLANDS, (4)UMR930, INSERM, Université François –Rabelais de Tours, Tours, France, (5)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (6) University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (7)Clinical Psychology, Universidad de Salamanca, Salamanca, SPAIN, (8)University hospital of Siena, Siena, ITALY, (9)University of Groningen and University Medical Center Groningen, Groningen, NETHERLANDS, (10)Oslo University Hospital, Oslo, NORWAY, (11)Radboud University, Nijmegen, Netherlands, (12)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (13)School of Medicine, Institute of Mental Health, Belgrade, Serbia, (14)Aleksandrovska University Hospital, Sofia, Bulgaria, (15)Carlos III Health Institute, Madrid, SPAIN, (16)Carlos III National Health Institute, Madrid, SPAIN, (17)Department of Experimental-Clinical and Health Psychology, Ghent University, Ghent, Belgium, (18)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (19)Université François Rabelais de Tours, INSERM U930, Tours, France, (20)Univ. Campus Bio-Medico, Rome, ITALY, (21)University of Edinburgh, Edinburgh, UNITED KINGDOM, (22) Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (23)The Hebrew University of Jerusalem, Jerusalem, Israel, (24)Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel, (25)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (26)Radboud University Nijmegen Medical Centre, Nijmegen Centre for Evidence-Based Practice, Nijmegen, NH, NETHERLANDS, (27)Roche Pharmaceutical Research and Early Development, NORD Discovery and Translational Area, Roche Innovation Center, Basel, Switzerland, (28)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (29)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

99 142.099 Effectiveness of Screening Tools in a Community-Based Sample: Which Children Are Missed and Why? S. Richardson[1], M. Reid[1], C. Beacham[1] and C. Klaiman[2], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

100 142.100 Evaluation of a Training Workshop to Enhance General Pediatrician Diagnostic Skills for Autism Spectrum Disorder M. Penner[1], J. A. Brian[1], A. Townley[2], J. Chiba Branson[1] and A. Kawamura[1], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Evidence To Care, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada

101 142.101 Examining Agreement in Parent and Teacher Report for School-Aged Children at-Risk for Autism Spectrum Disorder C. Butcher[1], C. C. Bradley[2], A. D. Boan[2] and L. A. Carpenter[2], (1)Developmental-Behavioral Pediatrics, Medical University of South Carolina, Charleston, SC, (2)Medical University of South Carolina, Charleston, SC

102 142.102 Examining Measures Used for the Diagnosis of Autism Spectrum Disorder J. Esteves[1], A. Taheri[1], A. Perry[2] and J. Koudys[3], (1) York University, Toronto, ON, Canada, (2)Psychology, York University, Toronto, ON, CANADA, (3)Centre for Applied Disability Studies, Brock University, St. Catharines, ON, Canada

103 142.103 Examining Symptoms of Autism Spectrum Disorder in Children with Prenatal Drug Exposure J. Hamel-Lambert[1,2], J. F. Scherr[1], M. Stone[1], B. Dennis[1] and E. Butter[3], (1)Nationwide Children's Hospital, Columbus, OH, (2)Ohio State University, Columbus, OH, (3)Nationwide Children's Hospital, Westerville, OH

104 142.104 Executive Function in Preschoolers with ASD: Evaluation of a Test Battery with Minimal Verbal Demands J. R. Bertollo[1], A. S. Nahmias[2,3], L. Antezana[4], S. R. Crabbe[3], D. S. Mandell[3] and B. E. Yerys[1], (1)The Center for Autism Research/CHOP, Philadelphia, PA, (2)University of California Los Angeles, Los Angeles, CA, (3)University of Pennsylvania, Philadelphia, PA, (4)Virginia Tech, Blacksburg, VA

105 142.105 Feasibility of Wh-Question Test in NT and ASD R. Shyam[1], L. Pesta[2], E. Carlson[3] and M. M. Kjelgaard[2], (1)Boulder Brain Recovery, Boulder, CO, (2)CSD, MGH IHP, Boston, MA, (3)Kapost, Boulder, CO

106 142.106 Gender Differences in Children and Adolescents with High-Functioning Autism Spectrum Disorders R. Loomes[1], L. Hull[1], D. H. Skuse[2] and W. Mandy[1], (1)University College London, London, United Kingdom, (2)UCL GOS Institute of Child Health, London, UNITED KINGDOM

107 142.107 High Autistic Traits in Women with Eating Disorders C. M. Brown[1], M. Fuller-Tyszkiewicz[1], I. Krug[2] and M. A. Stokes[1], (1)School of Psychology, Deakin University, Melbourne, Australia, (2)School of Psychological Sciences, University of Melbourne, Melbourne, Australia

108 142.108 How Can We Assess the Broader Autism Phenotype More Systematically? Insights from a Multiple Measure Study A. Riccio[1], S. K. Kapp[2], N. Najjar Daou[3], Y. Nishio[4] and K. Gillespie-Lynch[1], (1) Department of Psychology, College of Staten Island and The Graduate Center, CUNY, New York, NY, (2)College of Social Sciences and International Studies, University of Exeter, Exeter, United Kingdom, (3) American University of Beirut, Beirut, Lebanon, (4)Graduate School of Human Development and Environment, Kobe University, Kobe, Japan

109 142.109 How Certain Are Clinicians in Determining Outcome Diagnoses in 2 Year-Olds? A. Kincheloe[1], T. Aronson[2] and C. A. Saulnier[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (3)Children's Healthcare of Atlanta, Emory University, Marcus Autism Center, Atlanta, GA

110 142.110 How Reliable Is the Autism-Spectrum Quotient at Identifying Low and High Autistic Traits in College Students? J. L. Stevenson[1] and K. R. Hart[2], (1)Ursinus College, Collegeville, PA, (2)Mathematics, The Hotchkiss School, Lakeville, CT

111 142.111 Implications of Using the Social Responsiveness Scale in First-Time Diagnostic Assessment A. Merz, C. M. Taylor and T. Nelson, Geisinger Health System, Lewisburg, PA

112 142.112 Initial Observations of Girls' Social Presentation in a Clinical Setting C. Hall[1], J. Cash[2], B. A. Brooks[2] and S. Hoffenberg[2], (1) Marcus Autism Center, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA

113 142.113 Investigating the Causes of Informant Discrepancies in the Assessment of Autism Spectrum Conditions J. J. Finnemann[1,2,3] and K. Barnes[1], (1)Department of Psychology, University of Cambridge, Cambridge, United Kingdom, (2)Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Department of Music and Performing Arts, Anglia Ruskin University, Cambridge, United Kingdom

114 142.114 Longitudinal Prediction of Adaptive Behavior from Sensory Features and Intensity of Services in Children with ASD and Other DD K. L. Williams[1], L. R. Watson[2], A. V. Kirby[3], J. Sideris[4], J. C. Bulluck[1] and G. T. Baranek[1], (1)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2) University of North Carolina- Chapel Hill, Chapel Hill, NC, (3)University of Utah, Salt Lake City, UT, (4)Frank Porter Graham Child Development Institute, Chapel Hill, NC

115 ▸ 142.115 M-CHAT-R/F - Translation & Validation in Hindi N. Singhal[1], R. Pradhan[2], T. Behl[2], D. Taneja[3] and M. Barua[4], (1)Action For Autism, New Delhi, Delhi, India, (2)Action For Autism, New Delhi, India, (3)Action for Autism, New Delhi, INDIA, (4)Action For Autism, New Delhi, INDIA

116 142.116 Measurement Properties of Tools Used to Assess Suicidality in Adults with and without Autism Spectrum Conditions: A Systematic Review L. Bradley[1], J. Rodgers[2], E. Bowen[3] and S. A. Cassidy[1], (1)Coventry University, Coventry, United Kingdom, (2)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (3)University of Worcester, Worcester, United Kingdom

117 142.117 Parent Reported Development and Withdrawal Informs Differential Diagnosis of Autism Spectrum Disorder Versus Developmental Language Disorder in Children Under 6 A. E. Richard[1], E. Homeister[2], A. Buthman[1] and E. K. Hodges[1], (1)Psychiatry, University of Michigan, Ann Arbor, MI, (2)University of Michigan - Dearborn, Dearborn, MI

118 ▸ 142.118 Parent and Teacher Report of Behavioral Symptoms in Autism Spectrum Disorders: Assessing the Impact of Demographic and Socioeconomic Factors S. B. Vanegas, K. Acharya and S. Magana, Disability and Human Development, University of Illinois at Chicago, Chicago, IL

119 142.119 Parent-Reported Executive Functioning and Adaptive Social Skills in School-Age Children with ASD L. E. Miller, J. Donelan and D. A. Fein, Psychological Sciences, University of Connecticut, Storrs, CT

120 142.120 Parent-Reported Features Associated with Clinical Ratings of Autism Severity in Preschool Children: L. D. Wiggins[1], S. Rosenberg[2], K. Thomas[3], L. A. Schieve[1], J. Pandey[4] and S. E. Levy[5], (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)University of Colorado, Aurroa, CO, (3)University of North Carolina - Chapel Hill, Chapel Hill, NC, (4)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Children's Hospital of Philadelphia, Philadelphia, PA

121 142.121 Predictive Validity of the MCHAT-R in a Clinical Sample N. A. Broderick[1], R. Brewster[2], H. Dyer[2], M. Santulli[2] and A. Vehorn[3], (1)Vanderbilt University Medical Center/Vanderbilt Kennedy Center, Nashville, TN, (2)Department of Pediatrics, Vanderbilt University Medical Center/Vanderbilt Kennedy Center, Nashville, TN, (3)Vanderbilt University Medical Center, Nashville, TN

122 142.122 Profiling Autism Symptomatology in Females: An Exploration of the Q-ASC in a Clinical Setting S. Ormond[1,2], C. Brownlow[1], M. S. Garnett[3], T. Attwood[3] and A. Rynkiewicz[4,5], (1)School of Psychology and Counselling, University Of Southern Queensland, Darling Heights, Australia, (2)Specialist Clinic for Autism Spectrum Conditions, Minds and Hearts, West End, Australia, (3)Clincal Psychology and Diagnostics, Minds and Hearts, West End, Australia, (4)Center for Diagnosis,Therapy and Education SPECTRUM ASC-MED, Gdansk, Poland, (5)Faculty of Medicine, University of Rzeszow (UR), Rzeszow, Poland

123 ▸ 142.123 Race Influences Parent Report of Concerns about Symptoms of Autism Spectrum Disorder M. R. Donohue[1], A. W. Childs[2] and D. L. Robins[3], (1)Georgia State University, Atlanta, GA, (2)Yale University, New Haven, CT, (3)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

124 142.124 Relationship Between Cognitive Abilities and ASD Severity over Time in Early-Diagnosed Preschoolers I. Giserman Kiss and A. S. Carter, University of Massachusetts Boston, Boston, MA

125 142.125 Role of the AOSI in Predicting Autism Spectrum Disorder in Tuberous Sclerosis Complex J. K. Capal[1], B. Bernardino-Cuesta[2], P. S. Horn[3], D. S. Murray[4], A. W. Byars[3], N. Bing[5], B. Kent[6], S. E. O'Kelley[7], D. A. Pearson[8], R. Mansour[8], M. E. Williams[9], E. Hanson[10], A. Walsh[11], G. Cutter[7], H. Northrup[12], J. Y. Wu[13], M. Bebin[7], J. Peters[11], T. Mitchell[3], R. Filip-Dhima[11], S. Bruns[3], M. Goyal[7], M. Sahin[14] and D. A. Krueger[1], (1)Neurology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)9Seccion de Neuropediatria, Hospital Infantil Universitario Nino Jesus, Madrid, Spain, (3)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (4)Autism Speaks, Boston, MA, (5) Cincinnati Children's Hospital Medical Center, Cincinnat1, OH, (6) Developmental and Behavioral Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (7)University of Alabama at Birmingham, Birmingham, AL, (8)Psychiatry & Behavioral Sciences, University of Texas McGovern Medical School, Houston, TX, (9)Children's Hospital Los Angeles, Los Angeles, CA, (10)Children's Hospital Boston, Boston, MA, (11)Boston Children's Hospital, Boston, MA, (12)Pediatrics, University of Texas McGovern Medical School, Houston, TX, (13)Mattel Children's Hospital UCLA, Los Angeles, CA, (14)Neurology, Boston Children's Hospital, Boston, MA

126 142.126 STAT Behavioral Domains As Predictors of ASD Severity and Cognitive Outcomes S. R. Edmunds[1], L. V. Ibanez[2], W. L. Stone[3], E. Schriver[4], D. Burkom[5], A. Golden[6], A. Kuo[7], K. Lakes[8], R. Landa[9], D. S. Messinger[10], S. Paterson[11], Z. Warren[12] and C. J. Newschaffer[4], (1)University of Washington, Seattle, WA, (2)UW READi Lab, Seattle, WA, (3)Psychology, University of Washington, Seattle, WA, (4)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (5)Battelle, Columbus, OH, (6)Department of Occupational Medicine, Epidemiology and Prevention, Northwell Health Hofstra Northwell School of Medicine, Great Neck, NY, (7)Health Care Transitions Research Network for Autism Spectrum Disorders, Los Angeles, CA, (8)Department of Pediatrics, School of Medicine, University of California, Irvine, Irvine, CA, (9)Kennedy Krieger Institute, Baltimore, MD, (10)Psychology, University of Miami, Miami, FL, (11)Children's Hospital of Philadelphia, Philadelphia, PA, (12)Vanderbilt University, Nashville, TN

127 142.127 Sensory Hyper and Hyposensitivity to Sensory Stimuli As a Diagnostic Indicator of Autism Spectrum Disorder R. L. Young[1] and H. C. Ee[2], (1)Flinders University of South Australia, Adelaide, SA, Australia, (2)Psychology, Flinders University, Adelaide, Australia

128 142.128 Sex Differences in ADOS-2 Scores and Classifications Among Verbally Fluent Children with Autism Spectrum Disorder S. L. Bishop[1], M. P. Sweeney[1], M. Huerta[2], A. Havdahl[3] and C. Lord[2], (1) Psychiatry, University of California San Francisco, San Francisco, CA, (2) Psychiatry, Weill Cornell Medical College, White Plains, NY, (3)University Hospitals Bristol, Bristol, United Kingdom

129 142.129 Sex Differences in Item Specific Analyses of ADI-R in Preschool-Aged Boys and Girls with ASD A. L. Hechtman[1], B. Winder-Patel[2], G. S. Young[1], D. G. Amaral[3] and C. W. Nordahl[3], (1)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (2)MIND Institute, University of California, Davis, Sacramento, CA, (3)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

130 142.130 Sex Differences in Presenting Concerns and ASD Diagnostic Outcome in a Clinical Sample B. Ponjevic[1], B. Lewis[2] and J. McPartland[3], (1)Yale University, New Haven, CT, (2)Yale School of Medicine, Darien, CT, (3)Child Study Center, Yale School of Medicine, New Haven, CT

131 142.131 Special Education Assessment and Classification for Students with ASD: Perspectives of School Psychologists M. R. Silva[1,2,3], L. S. Woods[2,4,5], S. Simons[1,2,6], S. Gillespie[7] and L. Dilly[2,7,8], (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Children's Healthcare of Atlanta, Atlanta, GA, (3)Unviersity of Massachusetts Boston, Boston, MA, (4)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University, Atlanta, GA, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)Oklahoma State Unviersity, Stillwater, OK, (7)Emory University School of Medicine, Atlanta, GA, (8)Marcus Autism Center, Atlanta, GA

132 142.132 Stability of Risk Status in Toddlers with Autism Spectrum Disorder before Age 2: A Three-Year Follow-up C. C. Wu[1], Y. M. Hou[2] and C. H. Chiang[3], (1)Department of Psychology, Kaohsiung Medical University, Kaohsiung, Taiwan, (2)Psychiatry, Chia-Yi Christian Hospital, Chiayi City ,Taiwan, TAIWAN, (3)National Chengchi University, Taipei, TAIWAN

133 142.133 Standardized Cross-Cultural Assessment of Ability and Disability in ASD: The New WHO ICF-CY Core Sets S. Bolte[1], S. Mahdi[2] and M. Selb[3], (1)Karolinska Institutet Center of Neurodevelopmental Disorders (KIND), Dept. Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (2)Karolinska Institutet Center of Neurodevelopmental Disorders (KIND), Women's and Children's Health, Karolinska Institutet, Stockholm, SWEDEN, (3)WHO ICF Research Branch, Schweizer Paraplegiker-Forschung, Nottwil, Switzerland

134 142.134 Symptoms of Autism Spectrum Disorder in Individuals with Down Syndrome or Williams Syndrome R. Kirchner[1] and K. M. Walton[2], (1)The Ohio State University, Columbus, OH, (2) Psychology & Psychiatry, The Ohio State University, Columbus, OH

135 142.135 Testing the Utility of Positive, Negative, and Cognitive Dimensions for Parsing ASD Heterogeneity E. Isenstein[1], J. Wolf[2], A. Kolevzon[3], J. D. Buxbaum[3], C. A. Mazefsky[4] and J. H. Foss-Feig[5], (1)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York City, NY, (2)Yale Child Study Center, New Haven, CT, (3)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (4) Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (5)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY

136 142.136 The Autism Diagnostic Observation Schedule Calibrated Severity Score Best Measures Autism Diagnostic Symptom Severity in Pre-School Children L. D. Wiggins[1], B. Barger[2], E. Moody[3], G. N. Soke[1], J. Pandey[4] and S. E. Levy[5], (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)Georgia State University, Atlanta, GA, (3) University of Colorado, Denver, Aurora, CO, (4)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (5) The Children's Hospital of Philadelphia, Philadelphia, PA

137 142.137 The Broader Autism Phenotype in Parents of Children with ASD: A Systematic Review of Studies Reporting the Association Between Parent and Child Phenotype E. Rubenstein, D. Chawla and J. L. Daniels, University of North Carolina, Chapel Hill, NC

138 142.138 The Impact of the Audience Effect and Inattention on Online Vs in-Person IQ Assessment A. Zoltowski[1], C. C. Clements[1], M. Henderson[1], L. Bateman[1], N. Stein[2] and R. T. Schultz[3], (1)The Center for Autism Research/CHOP, Philadelphia, PA, (2)Department of Statistics, Wharton School, University of Pennsylvania, Philadelphia, PA, (3)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

139 142.139 Correspondence of Parent and Trained Observer Reports of Social Skills and Autism Symptoms M. Cornejo[1], J. J. Wood[2] and K. Axthelm[3], (1)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)Graduate Department of Education, University of California, Los Angeles, LA, CA

140 142.140 The Predictive Value of AQ and SRS-a in Adults with Suspected ASD M. Meek-Heekelaar, M. L. Bezemer and E. M. Blijd-Hoogewys, INTER-PSY, Groningen, Netherlands

141 142.141 The Predictive Value of the M-CHAT for ASD Screening Among Preterm Infants E. Friedlander[1], A. Harel[1], M. Yaari[1], B. Bar-Oz[2], S. Eventov-Friedman[3], D. Mankuta[2] and N. Yirmiya[4], (1)The Hebrew University of Jerusalem, Jerusalem, Israel, (2)Hadassah University Hospital, Jerusalem, Israel, (3)Neonatology, Hadassah University Hospital, Jerusalem, Israel, (4)Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel

142 142.142 The Primary Modification of the Chinese Version of Autism Spectrum Quotient- Children's Version (AQ-C) F. Sun[1], M. Dai[1], L. Lin[1], B. Auyeung[2,3] and J. Jing[1], (1)Department of Maternal and Child Health, Sun Yat-Sen University, Guangzhou, China, (2)Autism Research Centre, Cambridge, United Kingdom, (3)University of Edinburgh, Edinburgh, United Kingdom

143 142.143 The Relationship Between Socialization and Externalizing Problems in ASD and VCFS N. Shea[1], E. Payne[2], E. P. McKernan[1], J. Kopec[1], E. A. Kaplan[3], K. Antshel[3], W. R. Kates[4] and N. Russo[1], (1)Syracuse University, Syracuse, NY, (2)Public Health, Johns Hopkins, Baltimore, MD, (3)Psychology, Syracuse University, Syracuse, NY, (4)Psychiatry and Behavioral Sciences, SUNY Upstate Medical University, Syracuse, NY

144 142.144 The Role of Feature Engineering in Developing Clinical Diagnostic Machine Learning Algorithms for ASD Screening J. W. Wade[1], A. Vehorn[2] and Z. Warren[3], (1)Autos Consulting, Murfreesboro, TN, (2)Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN

145 142.145 The Role of Presence of ASD Symptoms in the Variability Between Parent and Teacher Ratings of Social Skills in School-Age Children Evaluated for ASD S. W. Eldred[1], S. M. Ryan[2], T. Tomeny[2], J. A. Rankin[2] and L. K. Baker[1], (1)University of Alabama, Tuscaloosa, AL, (2)The University of Alabama, Tuscaloosa, AL

146 142.146 Unsupervised Data-Driven Stratification of Autism Based on ADI-R Symptom Domains M. V. Lombardo[1,2], B. Auyeung[3], E. Loth[4], G. Dumas[5] and M. C. Lai[6], (1)University of Cambridge, Cambridge, United Kingdom, (2)University of Cyprus, Nicosia, Cyprus, (3)University of Edinburgh, Edinburgh, United Kingdom, (4)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)Institut Pasteur, Paris, France, (6)Psychiatry, University of Toronto, Toronto, ON, CANADA

147 142.147 Use of Crowd-Sourcing to Assess Social Communicative Behavior in Toddlers with and without ASD E. Myers[1], W. L. Stone[2], T. S. Lendvay[3], B. A. Comstock[4], R. Bernier[5] and C. A. Cowan[1], (1)Developmental Medicine, Seattle Children's Hospital, Seattle, WA, (2)Psychology, University of Washington, Seattle, WA, (3)Urology, University of Washington, Seattle, WA, (4)Biostatistics, University of Washington, Seattle, WA, (5)University of Washington Autism Center, Seattle, WA

148 142.148 Use of the Systematic Observation of Red Flags (SORF) for Autism Spectrum Disorder in a Naturalistic Home Setting D. Dow[1], T. N. Day[2], C. Nottke[1] and A. M. Wetherby[1], (1)Florida State University Autism Institute, Tallahassee, FL, (2)Clinical Psychology, Florida State University, Tallahassee, FL

149 142.149 Using Social Behavior Profiles to Predict Autism and Schizophrenia Diagnoses K. E. Morrison[1], A. Pinkham[1] and N. J. Sasson[2], (1)The University of Texas at Dallas, Richardson, TX, (2) University of Texas at Dallas, Richardson, TX

150 142.150 Using the Social Attention and Communication Surveillance Revised (SACS-R) in a Community Based Setting. L. P. Hollier[1,2], C. Dissanayake[3] and J. Barbaro[4], (1)Cooperative Research Centre for Living with Autism Spectrum Disorders (Autism CRC), Brisbane, Australia, (2)Olga Tennison Autism Research Centre, School of Psychology and Public Health, La Trobe University, Melbourne, Australia, (3)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (4)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia

151 142.151 Utility of Early Communication Assessment within ASD Diagnostic Evaluations in the Second Year of Life N. Brane[1], R. Dailey[1], M. Lewis[1], H. Grosman[1] and S. Gillespie[2], (1)Marcus Autism Center, Atlanta, GA, (2)Emory University School of Medicine, Atlanta, GA

152 142.152 Validity of the SRS in Minimally Verbal Children C. Farmer[1], V. Hus Bal[2] and A. Thurm[1], (1)National Institute of Mental Health, Bethesda, MD, (2)STAR Center for ASD & NDD; Dept of Psychiatry, University of California, San Francisco, San Francisco, CA

153 ▸ 142.153 Cultural Differences in Symptom Recognition, Diagnosis, and Time Lag of Autism: A Comparison Between Japan and the US N. Porter[1], K. A. Loveland[2], Y. S. Posey[3], C. K. Carberry[4] and K. Morimoto[5], (1)Human Development, Washington State University, Lubbock, TX, (2)Psychiatry & Behavioral Sciences, University of Texas McGovern Medical School, Houston, TX, (3)Psychiatry and Behavioral Sciences, University of Texas Medical School, Houston, TX, (4) Educational Psychology, University of Texas at Austin, New York, NY, (5) Osaka Red Cross Hospital, Japan, Osaka, Japan

154 ▸ 142.154 Who Goes Unseen? Race, Socio-Economics, and Autism Screening C. Cordeaux[1], D. A. Fein[2] and M. Barton[2], (1)University of Connecticut, Storrs, CT, (2)Psychological Sciences, University of Connecticut, Storrs, CT

155 142.155 Novel Approaches to Parent-Reporting of Behaviors in Autism Spectrum Disorder A. Bangerter[1], N. V. Manyakov[2], D. Lewin[3], S. Jagannatha[3], M. Boice[4], A. Skalkin[3], W. Cioccia[5], G. Dawson[6], M. S. Goodwin[7], R. Hendren[8], B. Leventhal[9], F. Shic[10], G. Pandina[4] and S. Ness[3], (1)Janssen Research & Development, LLC, Pennington, NJ, (2)Computational Biology, Janssen Research & Development, LLC, Beerse, Belgium, (3)Janssen Research & Development, LLC, Titusville, NJ, (4)Janssen Research & Development, Titusville, NJ, (5)Janssen, Long Valley, NJ, (6)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (7)Northeastern University, Boston, MA, (8)University of California San Francisco, San Francisco, CA, (9)UCSF, San Francisco, CA, (10)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA

156 142.156 Eye-Tracking Features As Diagnostic Markers of Autism Spectrum Disorder, Symptom Severity, and Change over Time G. Pandina[1], S. Ness[2], A. Bangerter[3], N. V. Manyakov[4], D. Lewin[2], S. Jagannatha[2], M. Boice[1], A. Skalkin[2], W. Cioccia[5], G. Dawson[6], . S. Goodwin[7], R. Hendren[8], B. Leventhal[9] and F. Shic[10], (1)Janssen Research & Development, Titusville, NJ, (2)Janssen Research & Development, LLC, Titusville, NJ, (3)Janssen Research & Development, LLC, Pennington, NJ, (4)Computational Biology, Janssen Research & Development, LLC, Beerse, Belgium, (5)Janssen, Long Valley, NJ, (6) Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (7)Northeastern University, Boston, MA, (8) University of California San Francisco, San Francisco, CA, (9)UCSF, San Francisco, CA, (10)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA

157 142.157 Identifying EEG Biomarkers As Potential Change Indicators in Autism Spectrum Disorder Clinical Studies N. V. Manyakov[1], G. Pandina[2], S. Ness[3], A. Bangerter[4], D. Lewin[3], S. Jagannatha[3], M. Boice[2], A. Skalkin[3], W. Cioccia[5], M. S. Goodwin[6], R. Hendren[7], B. Leventhal[8], F. Shic[9] and G. Dawson[10], (1)Computational Biology, Janssen Research & Development, LLC, Beerse, Belgium, (2)Janssen Research & Development, Titusville, NJ, (3)Janssen Research & Development, LLC, Titusville, NJ, (4)Janssen Research & Development, LLC, Pennington, NJ, (5)Janssen, Long Valley, NJ, (6)Northeastern University, Boston, MA, (7)University of California San Francisco, San Francisco, CA, (8)UCSF, San Francisco, CA, (9)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA, (10) Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC

158 142.158 Cardiovascular Indices As Outcome Measures in Autism Spectrum Disorder Clinical Trials M. S. Goodwin[1], S. Ness[2], A. Bangerter[3], N. V. Manyakov[4], D. Lewin[2], S. Jagannatha[2], M. Boice[5], A. Skalkin[2], W. Cioccia[6], G. Dawson[7], R. Hendren[8], B. Leventhal[9], F. Shic[10] and G. Pandina[5], (1)Northeastern University, Boston, MA, (2)Janssen Research & Development, LLC, Titusville, NJ, (3)Janssen Research & Development, LLC, Pennington, NJ, (4)Computational Biology, Janssen Research & Development, LLC, Beerse, Belgium, (5)Janssen Research & Development, Titusville, NJ, (6)Janssen, Long Valley, NJ, (7)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (8)University of California San Francisco, San Francisco, CA, (9)UCSF, San Francisco, CA, (10)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA

## Poster Session
143 - Epidemiology
12:00 PM - 1:40 PM - Golden Gate Ballroom

159 143.159 ASD Prevalence Study Across Europe: Developing a School-Based Teacher Nomination and Screening Approach P. Garcia Primo[1], D. E. Schendel[2], A. M. Vicente[3], E. Parner[4], C. Rasga[5], C. Café[6], B. Roge[7], C. Arnaud[8], E. Saemundsen[9], F. Muratori[10], A. Narzisi[11], A. M. Boilson[12], G. Oliveira[13], J. Fuentes[14], M. L. Scattoni[15], M. Gissler[16], M. R. Sweeney[17], L. Poustka[18], M. Efrim-Budisteanu[19], R. Kawa[20], R. Canal-Bedia[21], R. Stefanov[22], M. Van Bakel[23] and M. Posada[24], (1) Spanish Foundation for International Cooperation, Health and SocialPolicy –FCSAI-, Madrid, Spain, (2)Aarhus University, Aarhus, DENMARK, (3) Instituto Nacional Saude Doutor Ricardo Jorge, Lisbon, PORTUGAL, (4)University of Aarhus, DK-8000 Århus C, DENMARK, (5)Instituto Nacional de Saúde Doutor Ricardo Jorge (INSA), Lisbon, Portugal, (6) Hospital Pediátrico de Coimbra, Coimbra, PORTUGAL, (7)Université de Toulouse 2 Jean Jaurès, Toulouse, FRANCE, (8)University Toulouse 3 Paul Sabatier, Toulouse, France, (9)State Diagnostic and Counseling Center, Kopavogur, ICELAND, (10)IRCCS Stella Maris Scientific Institute, Pisa, Italy, (11)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (12)Dublin City University, Dublin 9, IRELAND, (13)Unidade de Neurodesenvolvimento e Autismo, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (14)Policlinica Gipuzkoa, San Sebastian, SPAIN, (15)Istituto Superiore di Sanità, Rome, ITALY, (16) University and University Hospital of Oulu, Oulu, Finland, (17)School of Nursing and Human Sciences, Dublin City University, Dublin, Ireland, (18) Medical University of Vienna, Vienna, Austria, (19)"Victor Babes" National Institute of Pathology, Bucharest, Romania, (20)University of Warsaw, Warsaw, Poland, (21)Clinical Psychology, Universidad de Salamanca, Salamanca, SPAIN, (22)Institute for rare diseases, Bulgarian Association for Promotion of Education and Science (BAPES), Plovdiv, Bulgaria, (23) RHEOP, Grenoble, France, (24)Carlos III Health Institute, Madrid, SPAIN

160 143.160 ATN Longitudinal Study: 3-Year Follow-up of 575 Youth with ASD D. S. Murray[1], P. Wang[2], D. L. Coury[3], K. Kuhlthau[4], J. Chan[5], E. A. Macklin[5] and A. Fedele[6], (1)Autism Speaks, Boston, MA, (2)Autism Speaks, New York, NY, (3)Nationwide Children's Hospital, Columbus, OH, (4)Massachusetts General Hospital, Boston, MA, (5)Biostatistics, Massachusetts General Hospital, Boston, MA, (6)Autism Speaks, Mullica Hill, NJ

161 ▸ 143.161 Age of Earliest Evaluation Among Linguistically Diverse 8-Year-Old Children with Autism Spectrum Disorder, Denver Metropolitan Area, 2010 - 2012 K. R. Kast[1], B. Harris[2], T. Hall[3], P. D. LaVesser[3], T. White[4] and C. Wells[4], (1)CO Dept. of Public Health and Environment, Denver, CO, (2)School of Education and Human Development, University of Colorado Denver, Denver, CO, (3)JFK Partners, University of Colorado Denver, Denver, CO, (4)Colorado Department of Public Health and Environment, Denver, CO

162 ▸ 143.162 An Exploratory Study on the Epidemiology of Autism Spectrum Disorder in Nepal R. Shrestha[1], C. Dissanayake[2] and J. Barbaro[3], (1)La Trobe University, Melbourne, Australia, (2)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia

163 143.163 Association Between Breastfeeding and Autism Spectrum Disorder in Preschool Children: An Analysis of Data from the Study to Explore Early Development (SEED) G. N. Soke[1], M. J. Maenner[1], E. Moody[2], G. C. Windham[3], C. DiGuiseppi[4] and L. A. Schieve[1], (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)University of Colorado, Denver, Aurora, CO, (3)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (4)University of Colorado - Denver, Aurora, CO

164 ▸ 143.164 Association Between Maternal Pre-Pregnancy Body Mass Index, Gestational Weight Gain and the Risk of Autism in Han Chinese Population Y. Shen, H. Dong, J. Ou and J. Zhao, Institute of Mental Health, the Second Xiangya Hospital, Central South University, Changsha, China

165 143.165 Associations of Autism Spectrum Disorder with Residential Air Pollution Exposure in a Large Southern California Pregnancy Cohort H. Jo[1], A. Xiang[2], M. Cockburn[1], J. C. Chen[3] and R. McConnell[1], (1)Department of Preventive Medicine, University of Southern California, Los Angeles, CA, (2)Department of Research & Evaluation, Kaiser Permanente Southern California, Pasadena, CA, (3) University of North Carolina, Chapel Hill, NC

166 143.166 Autism Features and Gender-Specific Eating Behaviour Problems throughout Childhood: The Generation R Study M. van 't Hof[1,2,3], W. A. Ester[2,3], H. W. Hoek[3,4] and H. Tiemeier[5,6,7], (1) The Generation R Study Group, Erasmus University Medical Center, Rotterdam, Netherlands, (2)Sarr Expert Centre for Autism, Lucertis Child and Adolescence Psychiatry, Rotterdam, Netherlands, (3)Parnassia Psychiatric Institute, The Hague, Netherlands, (4)Department of Psychiatry, University Medical Center Groningen, University of Groningen, Groningen, Netherlands, (5)Department of Child and Adolescent Psychiatry / Psychology, Erasmus MC-University Medical Center, Rotterdam, Netherlands, (6)Department of Epidemiology, Erasmus MC-University Medical Center, Rotterdam, Netherlands, (7)Department of Psychiatry, Erasmus MC-University Medical Center, Rotterdam, Netherlands

167 143.167 Autism Risk Associated with Parents' Age and Educational Status? F. Duque[1,2], J. Almeida[1], S. Mouga[1,3], C. Café[1], M. Patrício[4] and G. Oliveira[1,2,3], (1)Unidade de Neurodesenvolvimento e Autismo, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (2)University Clinic of Pediatrics, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (3)Institute for Biomedical Imaging and Life Science, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (4)Laboratory of Biostatistics and Medical Informatics and IBILI, Faculty of Medicine, University of Coimbra, Coimbra, Portugal

168 ▸ 143.168 Autism Spectrum Disorder (ASD) in Qatar:Profiles and Correlates of a Large Clinical Sample F. Alshaban[1], M. Aldosari[2], E. Fombonne[3] and I. Ghazal[4], (1)Qatar Biomedical Research Instutute, Doha, Qatar, (2)Cleveland Clinic, Cleveland, OH, (3)Oregon Health & Science University, Portland, OR, (4)King Faisal Specialist Hospital and Research Center, Riyadh, SAUDI ARABIA

169 143.169 Autism Spectrum Disorder: Mortality and Healthcare Implications from the National Mortality Files K. Y. Graves[1], H. J. Carretta[2] and T. W. Benevides[3,4], (1)Behavioral Sciences and Social Medicine, Florida State University College of Medicine, Tallahassee, FL, (2)Florida State University College of Medicine, Tallahassee, FL, (3)Thomas Jefferson University, Philadelphia, PA, (4)Occupational Therapy, Augusta University, Augusta, GA

170 143.170 Autism Symptom Severity in Males and Females: An Exploration of Gender Differences Using Item Response Theory A. Sturm[1] and M. Kuhfeld[2], (1)UCLA, Los Angeles, CA, (2)University of Texas Austin, Austin, TX

171 143.171 Comparison of Parental Concerns Around Child's Food Intake Between Children with ASD and Typically Developing Children L. G. Bandini[1,2], C. Curtin[1], S. Phillips[3] and A. Must[4], (1)Eunice Kennedy Shriver Center, University of Massachusetts Medical School, Worcester, MA, (2)Department of Health Sciences, Boston University, Boston, MA, (3)Department of Public Health and Community Medicine, Tufts University School of Medicine, Boston, MA, (4)Department of Public Health and Community Medicine, Tufts University School of Medicine, Boston, MA

172 143.172 Congenital Abnormalities of the Male Reproductive System and Risk of ASD R. S. Rotem[1], G. Chodick[2], M. Weisskopf[1], M. Davidovitch[2], B. Coull[1] and R. Hauser[1], (1)Harvard School of Public Health, Boston, MA, (2)Maccabi Healthcare Services, Tel Aviv, Israel

173 143.173 Enrollment and Participant Characteristics of SPARK, a National, Web-Based Cohort of Individuals with ASD and Their Family Members H. Zaydens[1], V. J. Myers[1], A. M. Daniels[2], L. Snyder[1], A. Amatya[1], L. Grosvenor[1], P. Feliciano[1] and W. Chung[1], (1)Simons Foundation, New York, NY, (2)SPARK, New York, NY

174 143.174 Familial Confounding of the Association Between Maternal Smoking in Pregnancy and Autism in Offspring A. Kalkbrenner[1], S. M. Meier[2], C. Ladd-Acosta[3], M. D. Fallin[4], E. Parner[5] and D. E. Schendel[6], (1)University of Wisconsin-Milwaukee, Milwaukee, WI, (2)Child and Adolescent Mental Health Centre, Copenhagen, Denmark, (3)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4) Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (5)University of Aarhus, DK-8000 Århus C, DENMARK, (6) Aarhus University, Aarhus, DENMARK

175 143.175 Geographic Differences Among Children with Autism Spectrum Disorders B. Zablotsky and S. J. Blumberg, National Center for Health Statistics, Hyattsville, MD

176 143.176 Improving the Identification of ASD Cases from Claims Data Using Machine Learning and Latent Class Analysis M. Brucato[1], C. Ladd-Acosta[2], R. Musci[3], X. Hong[1], D. M. Caruso[4], M. D. Fallin[5], X. Wang[6] and E. Stuart[7], (1)Johns Hopkins University School of Public Health, Baltimore, MD, (2)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)Johns Hopkins University, Baltimore, MD, (5)Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (6)Johns Hopkins University School of Public Health, Baltimore, MD, (7)Johns Hopkins School of Public Health, Baltimore, MD

177 143.177 In Utero Pyrethroid Pesticide Exposure and Child Cognitive Development from 6 to 36 Months in the Marbles Longitudinal Cohort J. Barkoski[1], D. Bennett[1], S. Ozonoff[2], D. J. Tancredi[3], D. Barr[4] and I. Hertz-Picciotto[5], (1)University of California, Davis, Davis, CA, (2) Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (3)UC Davis School of Medicine, Sacramento, CA, (4)Rollins School of Public Health, Emory University, Atlanta, GA, (5) University of California at Davis, Davis, CA

178 143.178 Infections in Children with Autism Spectrum Disorder: Study to Explore Early Development K. R. Sabourin[1], A. M. Reynolds[2], D. E. Schendel[3], S. Rosenberg[4], L. A. Croen[5], J. Pinto-Martin[6], L. A. Schieve[7] and C. DiGuiseppi[8], (1)Epidemiology, Colorado School of Public Health, Aurora, CO, (2)University of Colorado Denver, Aurora, CO, (3)Aarhus University, Aarhus, DENMARK, (4)University of Colorado, Aurroa, CO, (5)Kaiser Permanente Division of Research, Oakland, CA, (6)University of Pennsylvania, Philadelphia, PA, (7)Centers for Disease Control and Prevention, Atlanta, GA, (8)University of Colorado - Denver, Aurora, CO

179 143.179 Investigating Polychlorinated Biphenyls and Cytokines in Autism Spectrum Disorder E. M. Kauffman[1], N. L. Lee[2], L. A. Croen[3], K. Lyall[1], M. D. Fallin[4], I. Hertz-Picciotto[5] and C. J. Newschaffer[6], (1)AJ Drexel Autism Institute, Philadelphia, PA, (2)Drexel University School of Public Health, Philadelphia, PA, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (5)University of California at Davis, Davis, CA, (6)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

180 143.180 Linking Department of Children's Services Records with ADDM Population Surveillance Methods H. Dyer[1], A. Vehorn[2], R. Brewster[1], M. Santulli[1], N. Bardett[2], Z. Warren[3] and R. Epstein[4], (1) Department of Pediatrics, Vanderbilt University Medical Center/Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Chapin Hall at the University of Chicago, Chicago, IL

181 143.181 Is There Evidence of Intergenerational Influences on Autism? M. E. Pembrey[1,2], D. Rai[3], S. Gregory[4], K. Birmingham[1], J. Golding[3] and A. M. Emond[5], (1)Centre for Child and Adolescent Health, University of Bristol, Bristol, United Kingdom, (2)University College London, London, United Kingdom, (3)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (4)Centre for Child and Adolescent Health, University of Bristol, Bristol, United Kingdom, (5)Centre of Child and Adolescent Health, University of Bristol, Bristol, United Kingdom

182 143.182 Mercury Exposure in Pregnancy and Diagnosed Autism and Autistic Traits in the Offspring: Results from a Prospective Birth Cohort J. Golding[1], D. Rai[2], S. Gregory[3], K. Birmingham[4], C. M. Taylor[3] and A. M. Emond[1,5], (1)University of Bristol, Bristol, United Kingdom, (2) School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (3)Centre for Child and Adolescent Health, University of Bristol, Bristol, United Kingdom, (4)Centre for Child and Adolescent Health, University of Bristol, Bristol, United Kingdom, (5)Centre of Child and Adolescent Health, University of Bristol, Bristol, United Kingdom

183 143.183 Maternal Height in Relation to Autism Spectrum Disorders in Offspring L. Granillo and R. J. Schmidt, University of California at Davis, Davis, CA

184 143.184 Maternal Smoking during Pregnancy and Autism: Applying Genetic and Epigenetic Approaches in a Birth Cohort Study. D. Caramaschi[1,2], A. E. Taylor[1,3], R. C. Richmond[1,2], J. Golding[2], C. L. Relton[1,2], M. R. Munafò[1,3], G. Davey Smith[1,2] and D. Rai[2], (1)Medical Research Council Integrative Epidemiology Unit, University of Bristol, Bristol, United Kingdom, (2)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (3)School of Experimental Psychology, University of Bristol, Bristol, United Kingdom

185 143.185 Medical History of Discordant Twins Indicates Environmental Etiologies of Autism C. Willfors[1], T. Carlsson[2,3], B. M. Anderlid[4,5], A. Nordgren[5,6], E. Kostrzewa[7], S. Berggren[8], A. Ronald[9], R. Kuja-Halkola[10], K. Tammimies[8] and S. Bolte[11], (1)Karolinska Institute Center for Neurodevelopmental Disorders, Stockholm, Sweden, (2) Karolinska Institutet Center for Neurodevelopmental Disorders, Pediatric Neuropsychiatry Unit, Department of Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (3)Prima Child and Adult Psychiatry, Stockholm, Sweden, (4)3Department of Molecular Medicine and Surgery, Center of Molecular Medicine, Karolinska Institutet, Stockholm, Sweden, (5)Department of Clinical Genetics, Karolinska University Hospital, Stockholm, Sweden, (6)Department of Molecular Medicine and Surgery, Center of Molecular Medicine, Karolinska Institutet, Stockholm, Sweden, (7)1Karolinska Institutet Center for Neurodevelopmental Disorders, Pediatric Neuropsychiatry Unit, Department of Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (8)Karolinska Institutet, Stockholm, SWEDEN, (9) Birkbeck College, London, UNITED KINGDOM, (10)Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden, (11)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden

186 ▸ 143.186 Is the Prevalence of Autism Associated with Maternal Ethnicity and Nativity? R. Bruno[1], M. Khalil[2] and M. Elsabbagh[2], (1) Research Institute of the McGill University Health Centre, Montreal, QC, CANADA, (2)McGill University, Montreal, QC, Canada

187 143.187 Metabolic Programming of Child Gastrointestinal Symptoms in Children with Autism Spectrum Disorder P. Krakowiak[1], C. K. Walker[2], R. Hansen[3] and I. Hertz-Picciotto[4], (1)2825 50th Street, UC Davis, Sacramento, CA, (2)University of California, Sacramento, CA, (3) UCD MIND Institute, Sacramento, CA, (4)University of California at Davis, Davis, CA

188 143.188 Neonatal Jaundice in Association with Autism Spectrum Disorder in the Child C. Cordero[1], L. A. Schieve[2], L. A. Croen[3], C. Seashore[4] and J. L. Daniels[5], (1)The University of North Carolina-Chapel Hill, Carrboro, NC, (2)Centers for Disease Control and Prevention, Atlanta, GA, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)Pediatrics, UNC Chapel Hill, Chapel Hill, NC, (5)University of North Carolina, Chapel Hill, NC

189 143.189 Newborn Vitamin D Levels in Relation to Autism Spectrum Disorders; A Case-Control Study in California G. C. Windham[1], M. Anderson[2], D. Eyles[3], L. Weiss[4], M. Traglia[4], K. Lyall[5], M. Kharrazi[1] and L. A. Croen[6], (1)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (2)Impact Assessment, Inc., Richmond, CA, (3)Queensland Brain Institute, University of Queensland, Brisbane, Australia, (4)Department of Psychiatry and Institute for Human Genetics, University of California San Francisco, San Francisco, CA, (5)AJ Drexel Autism Institute, Philadelphia, PA, (6)Kaiser Permanente Division of Research, Oakland, CA

190 143.190 Patterns of Service Utilization Among Children with Autism Spectrum Disorder: A Cluster-Analysis of the 2011 Pathways to Diagnosis and Services Survey A. E. Epstein[1], S. E. O'Kelley[2] and M. Wingate[1], (1)Health Care Organization and Policy, University of Alabama at Birmingham, Birmingham, AL, (2)University of Alabama at Birmingham, Birmingham, AL

191 143.191 Prenatal Air Pollution Exposures, Maternal Cytokine/Chemokines, and Risk of Autism Spectrum Disorder: The Early Markers for Autism (EMA) Study H. E. Volk[1], L. A. Croen[2], G. C. Windham[3], D. B. Campbell[4], K. L. Jones[5], J. Van de Water[5], B. Y. Park[6], F. Lurmann[7] and P. Ashwood[8], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Kaiser Permanente Division of Research, Oakland, CA, (3)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (4)University of Southern California, Los Angeles, CA, (5)University of California at Davis MIND Institute, Davis, CA, (6)Johns Hopkins Bloomberg School of Public Health, Philadelphia, PA, (7)Sonoma Technology Inc, Petaluma, CA, (8)UC Davis, Sacramento, CA

192 ▸ 143.192 Prenatal Polybrominated Diphenyl Ether (PBDE) Exposure and Social Cognition at Age 14 M. H. Harris, S. Sagiv, K. G. Harley, K. Kogut, J. Deardorff, A. Bradman and B. Eskenazi, UC Berkeley School of Public Health, Berkeley, CA

193 143.193 Prenatal Serum Levels of Brominated Flame Retardants in Association with Autism Spectrum Disorder and Intellectual Disability: Potential Sex Differences K. Lyall[1], L. A. Croen[2], L. Weiss[3], M. Kharrazi[4], M. Traglia[3], G. N. Delorenze[2] and G. C. Windham[4], (1)AJ Drexel Autism Institute, Philadelphia, PA, (2)Kaiser Permanente Division of Research, Oakland, CA, (3)Department of Psychiatry and Institute for Human Genetics, University of California San Francisco, San Francisco, CA, (4)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA

194 143.194 Prevalence and Comorbidities of Autism Spectrum Disorder and Study of the Method of the Developmental Health Checkup in a Japanese Community-Based Population Sample of Five-Year-Old Children Y. Sakamoto[1], M. Saito[2], S. Yoshida[3], M. Adachi[4], N. Takayanagi[4], S. Yasuda[5], M. Kuribayashi[6] and K. Nakamura[7], (1)Graduate School of Medicine, Hirosaki University, Hirosaki, JAPAN, Hirosaki, Japan, (2)Graduate School of Medicine, Hirosaki University, Hirosaki, Japan, Hirosaki, JAPAN, (3)Research Centre for Child Mental Developmenta Hirosaki University Graduate School of Medicine, Hirosaki, JAPAN, (4) Hirosaki University, Hirosaki, JAPAN, (5)Research Center for Child Mental Development Graduate School of Medicine, Hirosaki University, Hirosaki, JAPAN, (6)Hirosaki University Research Center for Child Mental Development, Hirosaki, Aomori, JAPAN, (7)Hirosaki University, Aomori-Ken, JAPAN

195 143.195 Prevalence of Autism Spectrum Disorders in the Public Schools L. Dilly[1,2,3] and K. Sargent[1,2,4], (1)Marcus Autism Center, Atlanta, GA, (2)Children's Healthcare of Atlanta, Atlanta, GA, (3)Emory University School of Medicine, Atlanta, GA, (4)Georgia State University, Atlanta, GA

196 143.196 Puberty Timing and Sexual Attraction in Autism Using a Nationally Representative Sample T. May[1], K. Pang[2], M. O'Connell[2] and K. Williams[3], (1)Paediatrics, The University of Melbourne, Parkville, VIC, Australia, (2)Royal Children's Hospital, Parkville, Australia, (3) Developmental Medicine, The Royal Children's Hospital, Parkville, VIC, Australia

197 ▸ 143.197 Record-Based ASD Annual Prevalence for Children Ages 0-8 in Taiwan, 2004-2013 Y. T. Wu[1], Y. J. Li[2] and L. C. Lee[3], (1) School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei, Taiwan, (2)Center of Genomic Medicine, National Taiwan University, Taipei, Taiwan, (3)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

198 ▸ 143.198 Record-Based ASD Prevalence Estimates of 2004-2005 Birth Cohort in Taiwan Y. T. Wu[1], Y. J. Li[2] and L. C. Lee[3], (1) School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei, Taiwan, (2)Center of Genomic Medicine, National Taiwan University, Taipei, Taiwan, (3)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

199 143.199 Reliability and Validity of Self-Reported Home Environment in Autism Studies P. Krakowiak[1], D. Bennett[2], D. J. Tancredi[3], I. Hertz-Picciotto[4], C. K. Walker[5] and R. J. Schmidt[4], (1)2825 50th Street, UC Davis, Sacramento, CA, (2)University of California, Davis, Davis, CA, (3)UC Davis School of Medicine, Sacramento, CA, (4)University of California at Davis, Davis, CA, (5) University of California, Sacramento, CA

200 143.200 Risk of Epilepsy and Autism in Full- and Half-Siblings: A Population-Based Cohort Study J. Christensen[1], M. Overgaard[2], E. Parner[3], M. Vestergaard[2] and D. E. Schendel[4], (1)Aarhus University Hospital, Aarhus, Denmark, (2)Aarhus University, Aarhus, Denmark, (3) University of Aarhus, DK-8000 Århus C, DENMARK, (4)Aarhus University, Aarhus, DENMARK

201 143.201 Screening for Autism Spectrum Disorder with the SCQ and SRS: Variation Across Demographic and Developmental Factors E. Moody[1], N. M. Reyes[2], C. Ledbetter[3], L. D. Wiggins[4], C. DiGuiseppi[2], A. Alexander[5], S. Jackson[6], L. C. Lee[7], S. E. Levy[8] and S. Rosenberg[9], (1)13121 E 17th Avenue, University of Colorado, Denver, Aurora, CO, (2) University of Colorado - Denver, Aurora, CO, (3)School of Public Health, University of Colorado, Aurora, CO, (4)Centers for Disease Control and Prevention, Atlanta, GA, (5)University of Colorado, Aurora, CO, (6)CDC, Atanta, GA, (7)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (8)The Children's Hospital of Philadelphia, Philadelphia, PA, (9)University of Colorado, Aurroa, CO

202 143.202 Self-Reported Pregnancy Exposures and Placental DNA Methylation in the Marbles Prospective Autism Sibling Study R. J. Schmidt[1], D. I. Schroeder[2], F. K. Crary[2], J. Barkoski[3], D. J. Tancredi[4], C. K. Walker[5], S. Ozonoff[6], I. Hertz-Picciotto[1] and J. M. LaSalle[1], (1) University of California at Davis, Davis, CA, (2)University of California Davis, Davis, CA, (3)University of California, Davis, Davis, CA, (4)UC Davis School of Medicine, Sacramento, CA, (5)University of California, Sacramento, CA, (6)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

203 ▸ 143.203 Study on Prevalence of Autism in Rural Bangladesh J. shefa, Institute of Nutrition & Food Science, Dhaka university, Dhaka, Bangladesh; Paediatric Neurodisorder, Institute of Paediatric Neurodisorder & Autism (IPNA), BSMMU, Dhaka, Bangladesh

204 143.204 Testosterone and Steroids in Meconium: Differences By Sex of the Offspring N. Snyder[1], B. Y. Park[2], L. A. Croen[3], M. D. Fallin[4], I. Hertz-Picciotto[5] and C. J. Newschaffer[6], (1)Drexel University, Philadelphia, PA, (2)Johns Hopkins Bloomberg School of Public Health, Philadelphia, PA, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (5)University of California at Davis, Davis, CA, (6) Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

205 143.205 The ATN Longitudinal Study: Changes in Behavior, Sleep and Quality of Life over Time D. L. Coury[1], D. S. Murray[2], P. Wang[3], K. Kuhlthau[4], J. Chan[5], E. A. Macklin[5] and A. Fedele[6], (1)Nationwide Children's Hospital, Columbus, OH, (2)Autism Speaks, Boston, MA, (3) Autism Speaks, New York, NY, (4)Massachusetts General Hospital, Boston, MA, (5)Biostatistics, Massachusetts General Hospital, Boston, MA, (6)Autism Speaks, Mullica Hill, NJ

206 143.206 The Association of Maternal Lipid Levels and Autism Spectrum Disorder Risk. B. Y. Park[1], M. Brucato[2], E. Tierney[3], G. Wang[4], X. Hong[2], M. D. Fallin[5], X. Wang[6] and H. E. Volk[7], (1)Johns Hopkins Bloomberg School of Public Health, Baltimore,, MD, (2)Johns Hopkins University School of Public Health, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD, (4)Johns Hopkins University School of Public Health, Balktimore, MD, (5)Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (6)Johns Hopkins University School of Public Health, Baltimore, MD, (7)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

207 143.207 The Influence of Clinical Judgment in a Record-Review Surveillance System on Autism Spectrum Disorder Prevalence Estimates L. D. Wiggins[1], J. Baio[1], K. R. Kast[2], R. S. Kirby[3], M. J. Maenner[1], C. E. Rice[4], K. Van Naarden Braun[5], W. W. Zahorodny[6] and M. Wingate[7], (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)CO Dept. of Public Health and Environment, Denver, CO, (3)University of South Florida, Tampa, FL, (4)Emory Autism Center, Decatur, GA, (5)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (6)New Jersey Medical School, Westfield, NJ, (7)Health Care Organization and Policy, University of Alabama at Birmingham, Birmingham, AL

208 143.208 The Negev Hospital-University-Based (HUB) Database of Autism I. Menashe[1], A. Michaelovski[2], H. Fluser[2], M. Faroy[2], M. Ilan[1], A. Bar-Sinai[1], D. Stolowicz[1], L. Manelis[3], L. Yosef[1], N. Davidovitch[1], H. Golan[1], S. Arbel[2], I. Dinstein[4] and G. Meiri[5,6], (1)Ben-Gurion University of the Negev, Beer Sheva, Israel, (2)Soroka University Medical Center, Beer Sheva, Israel, (3)Department of Psychology, Ben Gurion University of the Negev, Beer-Sheva, Israel, (4)Department of Cognitive and Brain Sciences, Ben Gurion University of the Negev, Beer-Sheva, Israel, (5)Pre-School Psychiatry Unit, Soroka University Medical Center, Beer-Sheva, Israel, (6)Ben-Gurion University of the Negev, Beersheva, Israel

209 143.209 The Parental Stress and Externalizing Behavior in Children with Autism Spectrum Disorder in Oman: A Case-Control Study O. A. Al-Farsi[1], Y. Alfarsi[2], M. M. Al-Sharbati[3] and S. H. Al-Adawi[4], (1) P.O. Box 34, PC 123, Sultan Qaboos University, Muscat, Oman, (2) Sultan Qaboos University, Al-Khoud, OMAN, (3)Sultan Qaboos University, Muscat-Al-Khod, OMAN, (4)Behavioral Medicine, Sultan Qaboos University, Muscat, Oman

210 143.210 The Prevalence of Autism Spectrum Disorder in School Aged Children: Population Based Screening and Direct Assessment L. A. Carpenter[1], A. D. Boan[1], A. Wahlquist[2], A. Cohen[1], J. Charles[1], W. Jenner[1], C. C. Bradley[1] and E. G. Hill[3], (1)Medical University of South Carolina, Charleston, SC, (2)MUSC, Charleston, SC, (3)Department of Public Health Sciences, Medical University of South Carolina, Charleston, SC

211 143.211 The Use of Psychoactive and Complementary Alternative Medicine (CAM) in Autism Spectrum Disorder (ASD) in Minors in the Province of Antwerp, Belgium M. Dhar[1,2], E. Heyde[3], H. Hellemans[4], E. Schoentjes[5] and D. van West[1,2,4], (1)Department of Clinical and Lifespan Psychology, Vrije Universiteit Brussel, Brussels, Belgium, (2)Collaborative Antwerp Psychiatric Research Institute (CAPRI), University of Antwerp, Antwerp, Belgium, (3)University of Antwerp, Antwerp, Belgium, (4)Antwerp Hospital Network-University Center for Child and Adolescent Psychiatry, Antwerp, Belgium, (5)Ghent University Hospital, Ghent, Belgium

212 143.212 Understanding Prevalence and Kindergarten Behavioural Profiles of Children with Autism Spectrum Disorder M. Janus[1], A. Siddiqua[1,2], S. Taylor[1], M. Brownell[3] and E. Duku[1], (1)Offord Centre for Child Studies, Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada, (2) Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, ON, Canada, (3)Manitoba Centre for Health Policy, University of Manitoba, Winnipeg, MB, Canada

213 143.213 Using Health, Education and Research Administrative Databases to Better Understand Autism Prevalence in Australia T. May[1] and K. Williams[2], (1)Murdoch Childrens Research Institute, Parkville, VIC, Australia, (2)Developmental Medicine, The Royal Children's Hospital, Parkville, VIC, Australia

214 143.214 Validation of the Utah Registry of Autism and Developmental Disabilities: A State-Wide Registry for Autism Spectrum Disorder A. V. Bakian[1], C. M. Kingsbury[2], W. M. McMahon[1], N. Taxin[2] and D. Bilder[1], (1)Psychiatry, University of Utah, Salt Lake City, UT, (2) Children with Special Health Care Needs, Utah Department of Health, Salt Lake City, UT

## Poster Session
144 - Family Issues and Stakeholder Experiences I
12:00 PM - 1:40 PM - Golden Gate Ballroom

215 144.215 Oral Health and Dental Care Among Children with and without an Autism Spectrum Disorder in Australia: A Comparative Study J. Granich[1], A. Lin[2], A. Dass[2], L. G. Do[3], L. Luzzi[4], M. Y. Rayner[2] and A. J. Whitehouse[1], (1)Telethon Kids Institute, University of Western Australia, Perth, Australia, (2)Telethon Kids Institute, The University of Western Australia, West Perth, Australia, (3)Australian Research Centre for Population Oral Health, School of Dentistry, The University of Adelaide, Adelaide, Australia, (4)Australian Research Centre for Population Oral Health (ARCPOH), The University of Adelaide, Adelaide, Australia

216 144.216 Parent Concerns and Screen-Based Media: Teens with ASD and Typically-Developing Peers C. A. Cohen[1] and A. R. Marvin[2], (1) Kennedy Krieger Institute, Baltimore, MD, (2)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD

217 144.217 Parent Experiences of Raising an Adolescent with Autism Spectrum Disorder H. S. Ho[1] and A. Perry[2], (1)Psychology, York University, Toronto, ON, Canada, (2)Psychology, York University, Toronto, ON, CANADA

218 144.218 Parent Perceptions of Self-Determination for Adolescents with ASD L. Corona[1], C. Janicki[2] and K. V. Christodulu[3], (1)Center for Autism and Related Disabilities, Albany, NY, (2)Center for Autism and Related Disabilities - University at Albany SUNY, Albany, NY, (3)Center for Autsim and Related Disabilities, Albany, NY

219 144.219 Parent Perspectives on Participating in Intervention Research with Their High-Risk Toddler E. A. Karp[1], K. Pickard[2], K. Ragsdale[1], B. Ingersoll[2], P. J. Yoder[3] and W. L. Stone[1], (1)Psychology, University of Washington, Seattle, WA, (2)Michigan State University, East Lansing, MI, (3)Vanderbilt University, Nashville, TN

220 144.220 Parent Reported Child Attention Problems and Depression Related to Parenting Stress in ASD R. Kramer[1], T. Ward[2], A. J. Lee[1], E. A. Bisi[1], T. Estrada[1] and B. J. Wilson[1], (1)Seattle Pacific University, Seattle, WA, (2)University of Washington Autism Center, Seattle, WA

221 144.221 Parent Responsive Direction in Play and Children's Language and Social Development in ASD B. Caplan[1], A. Eisenhower[2] and J. Blacher[3], (1)Psychology, UCLA, Los Angeles, CA, (2)University of Massachusetts Boston, Boston, MA, (3)University of California - Riverside, Riverside, CA

222 144.222 Parent Strategies to Support Mealtime Participation for Children with Autism Spectrum Disorders: Integration of Behavior and Narrative Data K. K. Ausderau[1] and B. St. John[2], (1)University of Wisconsin-Madison, Madison, WI, (2)University of WI - Madison, Madison, WI

223 144.223 Parent-Mediated Training for Behavior Problems in Children with ASD: We Have Miles to Go A. P. Ables[1], A. D. Rodgers[2], L. A. Ruble[2], R. J. Reese[3], G. M. Kuravackel[4] and J. H. McGrew[5], (1) Department of Pediatrics, University of Louisville, Louisville, KY, (2) University of Kentucky, Lexington, KY, (3)Educational, School and Counseling Psychology, University of Kentucky, Lexington, KY, (4) University of Louisville, Louisville, KY, (5)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN

224 144.224 Parental Attributions of Behavior in Toddlers with ASD-Related Concerns A. R. Kurup[1], R. Baharloo[1], W. L. Stone[1] and L. V. Ibanez[2], (1)Psychology, University of Washington, Seattle, WA, (2) UW READi Lab, Seattle, WA

225 144.225 Parental Involvement in Educational and Intervention Services for Young Children with Autism R. K. Schuck and L. A. Simpson, Special Education, San Jose State University, San Jose, CA

226 144.226 Parental Quality of Life in ASD Families: Influence of Autism Severity, Adaptive Functions, Availability of Public Health Services and Prospective Assessment of the IMPACT of Case Management Intervention on Parental Stress. A. M. Persico[1], R. Faggioli[2], M. Frittoli[2], B. Olivari[2], G. Turturo[2] and R. Sacco[3], (1)University of Messina, Messina, Italy, (2)Mafalda Luce Center for Pervasive Developmental Disorders, Milan, Italy, (3)Univ. Campus Bio-Medico, Rome, ITALY

227 144.227 Parental Stress, Parental Efficacy and Problem Behaviors in Children with Autism Spectrum Disorder: A Structural Equation Analysis K. A. Smith[1,2], M. Siegel[3], S. L. Santangelo[4], R. Gabriels[5], G. Righi[6] and W. L. Cook[7], (1)Maine Medical Center Research Institute, Portland, ME, (2)Tufts University School of Medicine, Boston, MA, (3)Maine Medical Center - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME, (4)Maine Medical Center, Portland, ME, (5)Children's Hospital Colorado, Aurora, CO, (6)Alpert Medical School of Brown University, Rumford, RI, (7)Center for Excellence in the Neuroscience, University of New England, Biddeford, ME

228 144.228 Parenting Stress and Emotional Availability in the Families of Children with Autism Spectrum Disorder Y. Ozturk, A. Bentenuto, N. Mazzoni and P. Venuti, University of Trento, Rovereto, Italy

229 144.229 Portrayal of ASD in Canadian Media: A Framing Analysis S. Chiu and S. Hodgetts, University of Alberta, Edmonton, AB, Canada

230 144.230 Predicting Anxiety in Autism Spectrum Disorder: The Roles of Parenting and Emotion Regulation E. M. McRae[1], S. E. O'Kelley[2] and L. Stoppelbein[2], (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)University of Alabama at Birmingham, Birmingham, AL

231 144.231 Predictors for Parent Wellbeing Around the Time of Young Child ASD Diagnosis M. J. Grant[1] and K. Hudry[2], (1)Olga Tennison Autism Research Centre, La Trobe Univeristy, Melbourne, Australia, (2) Olga Tennison Autism Research Centre, Melbourne, AUSTRALIA

232 144.232 Predictors of Anxiety in Parents of Adolescents and Young Adults with Autism Spectrum Disorder (ASD) M. Uljarevic[1,2], A. L. Richdale[1,2] and R. Y. Cai[1,2], (1)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

233 144.233 Predictors of Maternal Stress in Pre-School and School Aged Children on the Autism Spectrum L. Zheng[1,2], R. Grove[2,3] and V. Eapen[1,2,4], (1)The University of New South Wales, Randwick, Australia, (2)The Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)The University of New South Wales, Sydney, Australia, (4)Academic Unit of Child Psychiatry South West Sydney (AUCS), Liverpool, Australia

234 144.234 Predictors of Parent Expectations within an Intervention for Children with Autism L. Hauptman[1], C. K. Toolan[1], T. Carr[2] and C. Kasari[1], (1)University of California, Los Angeles, Los Angeles, CA, (2) Autism Discovery Institute, Rady Children's Hospital San Diego, San Diego, CA

235 144.235 Predictors of Parent Scaffolding in Children with Autism Spectrum Disorder V. Chan (Ting)[1] and J. A. Weiss[2], (1)Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, CANADA

236 ▸ 144.236 Profile of Access and Satisfaction with Health and Educational Services for People with Autism Spectrum Disorders in Latin America G. Garrido[1], R. A. Garcia[2], C. Montiel-Nava[3], C. S. Paula[4], S. H. Cukier[5], A. Rosoli[6], D. Valdez[7], M. Irarrazaval[8,9], V. Besio[1], F. Prieto[8,9], M. Koolhaas[1] and A. Rattazzi[5], (1)Universidad de la República, Montevideo, Uruguay, (2)Universidad de Chile, Santiago, CHILE, (3) La Universidad del Zulia, Gainesville, GA, (4)Developmental Disorder Program, Mackenzie Presbyterian Univesrsity, Sao Paulo, BRAZIL, (5) PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Argentina, (6)OEI, Santo Domingo, Dominican Republic, (7)FLACSO, Buenos Aires, Argentina, (8) Universidad de Chile, Santiago de Chile, Chile, (9)Millenium Institute for Research in Depression and Personality, Santiago de Chile, Chile

237 144.237 Profiles of Parental Personal/Social Coping Resources during Children's Early School Years: Implication for Psychological Distress A. Zaidman-Zait[1], P. Mirenda[2], P. Szatmari[3], I. M. Smith[4], J. Volden[5], L. Zwaigenbaum[6], T. Bennett[7], E. Duku[8], M. Elsabbagh[9], S. Georgiades[8] and W. Ungar[10], (1)Tel-Aviv University, Tel-Aviv, ISRAEL, (2)University of British Columbia, Vancouver, BC, Canada, (3)Centre for Addiction and Mental Health, Toronto, ON, CANADA, (4)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (5)University of Alberta, University of Alberta, AB, CANADA, (6)University of Alberta, Edmonton, AB, CANADA, (7)Offord Centre for Child Studies, McMaster University, Hamilton, ON, CANADA, (8)McMaster University, Hamilton, ON, CANADA, (9)McGill University, Montreal, CANADA, (10)Sick Kids Research Institute, Toronto, ON, Canada

238 144.238 Psychosocial Well-Being and Treatment Access in High Risk Families of Individuals with ASD L. A. Pepa[1] and S. L. Harris[2], (1) Psychiatry, Center for Autism and the Developing Brain, White Plains, NY, (2)Rutgers University, Piscataway, NJ

239 ▸ 144.239 Quality of Life of Caregivers of Children with Autism Spectrum Disorders in Nigeria I. I. Adeosun[1], O. Ogunderu[2] and O. Ogun[2], (1)Mental Health Unit, Babcock University, Ilishan-Remo, Nigeria, (2)Federal Neuro-Psychiatric Hospital Yaba, Lagos, Nigeria

240 144.240 Quality of Life of Parents of Children with ASD: From Adolescence to Early Adulthood. C. Rattaz[1] and A. Baghdadli[2], (1)Centre de Ressources Autisme, Montpellier, FRANCE, (2)CHU MONTPELLIER, MONTPELLIER, France

241 ▸ 144.241 Relation Between Socioeconomic Status and Symptom Severity, Cognitive, and Language Ability in ASD L. Olson[1,2], S. Reynolds[1,3], Y. Gao[1,2], S. Punyamurthula[1], N. Witkowska[1], R. A. Müller[1,2] and I. Fishman[1,2], (1)Brain Development Imaging Laboratory, Department of Psychology, San Diego State University, San Diego, CA, (2)Joint Doctoral Program in Clinical Psychology, SDSU / UC San Diego, San Diego, CA, (3)Department of Psychological Sciences, University of San Diego, San Diego, CA

242 ▸ 144.242 Results of a Patient-Centered Outcomes Research Institute (PCORI) Approach to Engaging ASD Stakeholders in Rural Underserved Areas J. Elder[1], S. N. Brasher[2] and C. Kreider[3], (1)FCH, College of Nursing University of Florida, Gainesville, FL, (2)Emory University, Atlanta, GA, (3)University of Florida, Gainesville, FL

243 144.243 Role of Externalizing Children Problem Behaviors in the Relationship between Autism and Parenting Stress: A Primary School Based Case-Control Study Q. K. Y. Siu[1], H. Yi[1], F. Y. D. Chan[2], J. Greenberg[3], W. W. S. Mak[4] and S. M. Griffiths[1], (1)JC School of Public Health and Primary Care, The Chinese University of Hong Kong, Shatin, Hong Kong, (2)Department of Pediatrics, The Chinese University of Hong Kong, Shatin, Hong Kong, (3)The Children's Institute of Hong Kong, Kenndy Town, Hong Kong, (4)Department of Psychology, The Chinese University of Hong Kong, Shatin, Hong Kong

244 144.244 Should We Tell? Parents' Perspectives on Disclosing an Autism Diagnosis S. Hodgetts[1], L. G. Rogers[2], L. Acheampong[1] and S. Phelan[3], (1)University of Alberta, Edmonton, AB, Canada, (2)University of Alberta, Edmonton, AB, CANADA, (3)Department of Occupational Therapy, University of Alberta, Edmonton, AB, Canada

245 144.245 Sibling Status (TD or ASD) Is Associated with Parent Reports of Adaptive Skills in Children with ASD R. Bakhtiari[1], B. Thompson[2] and G. Iarocci[3], (1)Simon Fraser University, Burnaby, BC, Canada, (2)Autism Developmental Disorder Lab, Burnaby, BC, CANADA, (3)Simon Fraser University, Burnaby, BC, CANADA

246 144.246 Sleep Problems in Children with Autism Spectrum Disorders: Impact on Caregiver Quality of Life. B. Cuomo, T. Falkmer, S. Vaz and J. Rogerson, School of Occupational Therapy and Social Work, Curtin University, Perth, Australia

247 144.247 Stigma and Social Perception of Mothers of Children with Autism Spectrum Disorder E. Baker[1], C. Ponting[2], T. Hutman[3], M. Dapretto[4] and S. S. Jeste[5], (1)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)Clinical Psychology, UCLA, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)University of California, Los Angeles, Los Angeles, CA, (5)UCLA, Los Angeles, CA

248 144.248 Strategies for Successful Dental Encounters for Children with ASD: A Qualitative Study L. I. Duker (Stein)[1], L. I. Florindez[1], B. F. Henwood[2], D. Como[1], J. C. Polido[3] and S. A. Cermak[4], (1)Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (2)School of Social Work, University of Southern California, Los Angeles, CA, (3) Children's Hospital Los Angeles, Los Angeles, CA, (4)USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA

249 144.249 Support Intensity Scale Profile in Autism : A Proof of Concept Study E. Grossi[1], T. Gomiero[2] and L. Croce[3], (1)Villa Santa Maria scs, Tavernerio, Italy, (2)DAD© project group, ANFFAS Trentino, Trento, Italy, (3)Catholic University, Brescia, Italy

250 144.250 Teacher Self-Efficacy for Teaching Students with Autism Spectrum Disorder: A Study of Relationships with Stress, Engagement, and Student Outcomes A. M. Love[1], J. A. Findley[2] and L. A. Ruble[2], (1)Educational, School, and Counseling Psychology, University of Kentucky, Lexington, KY, (2)University of Kentucky, Lexington, KY

251 144.251 The Autism Family Experience Questionnaire (AFEQ): An Ecologically-Valid, Parent-Nominated Measure of Family Experience of Autism, Quality of Life, and Prioritised Outcomes for Early Autism Interventions K. Leadbitter[1], J. Green[2], R. Emsley[2], H. McConachie[3], A. Le Couteur[4], T. Charman[5], V. Slonims[6], P. Howlin[7], C. R. Aldred[1] and .. PACT Consortium[8], (1)University of Manchester, Manchester, UNITED KINGDOM, (2)University of Manchester, Manchester, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (5)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (6)Evelina Children's Hospital Guy's and St Thomas' NHS Foundation Trust, London, UNITED KINGDOM, (7)King's College London, Institute of Psychiatry, London, UNITED KINGDOM, (8) United Kingdom

252 144.252 The Colorado Parent Mentoring Program: Parent-to-Parent Support Improves Family Functioning and Satisfaction with Care B. Rigles[1], E. Moody[2], K. E. Kaiser[3], L. Kubicek[4], J. Davis[4] and C. Robinson Rosenberg[4], (1)University of Colorado, Boulder, CO, (2)13121 E 17th Avenue, University of Colorado, Denver, Aurora, CO, (3)JFK Partners University of Colorado, Aurora, CO, (4)University of Colorado, Aurora, CO

253 144.253 The Development of a Family Support Package for Parents Following a Child's Diagnosis of Autism Spectrum Disorder: What Do Parents Want? S. Rabba[1], C. Dissanayake[2] and J. Barbaro[3], (1) La Trobe University, Melbourne, AUSTRALIA, (2)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia

254 144.254 The Effect of Sibling Order on Communication in Individuals with and without ASD E. Lecarie[1], B. Lewis[2], J. Lei[1], H. Turner[1], J. Wolf[1], R. J. Jou[3] and J. McPartland[4], (1)Yale Child Study Center, New Haven, CT, (2)Yale School of Medicine, Darien, CT, (3) Yale University, New Haven, CT, (4)Child Study Center, Yale School of Medicine, New Haven, CT

255 144.255 The Effectiveness of a Group Brief Parent Training for Parents with the Developmental Disorders M. Inoue[1], D. Enomoto[2,3] and H. Murase[2], (1)Tottori University, Yonago-City, Tottori, Japan, (2)LITALICO Inc., Tokyo, Japan, (3)LITALICO Lab., Tokyo, Japan

256 144.256 The Experience of Stress in Caregivers of Children with ASD: An Examination of Stressors R. G. Romanczyk[1], R. N. Cavalari[2], J. Gillis[1], D. M. Noyes-Grosser[3], E. H. Callahan[4], B. Elbaum[5] and K. M. Siegenthaler[6], (1)State University of New York at Binghamton, Binghamton, NY, (2)Binghamton University - Institute for Child Development, Binghamton, NY, (3)NYS Department of Health, Averill Park, NY, (4)The Council of Autism Service Providers, Wakefield, MA, (5)University of Miami, Coral Gables, FL, (6)New York State Department of Health, Bureau of Early Intervention, Albany, NY

257 144.257 The Impact of Personality Traits on Outcomes in Caregivers of Individuals with Autism Spectrum Disorder in the Transition Period Y. Yu[1] and J. H. McGrew[2], (1)Indiana University - Purdue University Indianapolis, Indianapolis, IN, (2)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN

258 144.258 The Impact of the Environment on Primary Care for Individuals with Autism L. I. Duker (Stein)[1] and B. Pfeiffer[2], (1)Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (2)Temple University, Hatfield, PA

259 144.259 The Influence of Social Support on the Stress of Families of Children with Autism Spectrum Disorder S. McKee[1], K. Bergez[1], D. Truong[1], A. Meinert[1], A. Barton[1] and S. S. Mire[2], (1) University of Houston, Houston, TX, (2)Psychological, Health, & Learning Sciences, University of Houston, Houston, TX

260 144.260 The Parent Motivation for Early Intervention Participation Scale for Children with Autism Spectrum Disorder K. Marsh, D. A. Prykanowski and A. C. Huggins-Manley, University of Florida, Gainesville, FL

261 144.261 The Quality, Not Quantity, of Play for Fathers of Children with Autism J. L. Bloom, M. N. Gragg and J. B. Jones, University of Windsor, Windsor, ON, CANADA

262 144.262 The Role of Parent Satisfaction with Parenting Efficacy in Links Between Depressive Symptoms and Observed Parenting in Families of Children with ASD M. Orr[1], A. N. Bailey[1], J. M. Moffitt[1], S. M. Zeedyk[2], R. M. Fenning[2] and J. K. Baker[2], (1)Center for Autism, California State University, Fullerton, Fullerton, CA, (2)Child and Adolescent Studies, California State University, Fullerton, Fullerton, CA

263 144.263 The Role of Parents in a Social Communication Intervention for Children Who Are Minimally Verbal C. K. Toolan[1], A. Holbrook[2], S. Y. Shire[2] and C. Kasari[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA

264 144.264 This Is What Friendship Is to Me: A Grounded Theory L. Hall and E. A. Kelley, Queen's University, Kingston, ON, CANADA

265 144.265 Toddler Social-Communication and Parenting Stress Are Mediating Factors in the Psychosocial Well-Being of Parents with ASD-Related Concerns L. V. Ibanez[1] and W. L. Stone[2], (1)UW READi Lab, Seattle, WA, (2)Psychology, University of Washington, Seattle, WA

266 144.266 Transition to Adulthood for Young People on the Autism Spectrum C. Thompson[1,2], T. Falkmer[1,2], S. Bolte[1,3,4] and S. J. Girdler[1,5], (1) School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (4)Stockholm County Council, Center for Psychiatry Research, Stockholm, Sweden, (5) Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia

267 144.267 Understanding Concerns Relating to Uncertainty about the Future in Adults on the Autism Spectrum and Their Families. R. Herrema[1], D. Garland[2], M. R. Osborne[3], E. Honey[4], M. Freeston[5] and J. Rodgers[6], (1)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, UNITED KINGDOM, (2)National Autistic Society, Newcastle upon Tyne, United Kingdom, (3)Kids and Young Adults Klub Special Needs Support Group, The Kayaks Support Group, Newcastle Upon Tyne, United Kingdom, (4)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (5) Psychology, Newcastle University, Newcastle, United Kingdom, (6) Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom

268 144.268 Understanding Stress in Mothers of Children with ASD L. Hewitson[1], C. Schutte[1], W. Richardson[1], C. Marti[2] and K. Barnhill[1], (1) The Johnson Center for Child Health and Development, Austin, TX, (2) Abacist Analytics, LLC, Austin, TX

269 144.269 Using Mindfulness Based Stress Reduction to Reduce Caregiver Distress As Part of Behavioral Intervention for Young Children with ASD A. S. Weitlauf[1], N. A. Broderick[2], A. Stainbrook[3], K. Herrington[4], A. Nicholson[5], P. Juárez[6] and Z. Warren[7], (1)TRIAD, Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University Medical Center/ Vanderbilt Kennedy Center, Nashville, TN, (3)Vanderbilt Kennedy Center, Nashville, TN, (4)Vanderbilt University Medical Center, nashville, TN, (5) Vanderbilt University Medical Center, Pleasant View, TN, (6)Vanderbilt University Medical Center, Nashville, TN, (7)Vanderbilt University, Nashville, TN

270 144.270 Willingness of Mothers of Individuals with ASD to Engage in Mobile Health Research J. S. Toroney[1], J. K. Law[1], A. R. Marvin[2], S. S. Dhingra[3], E. J. Simoes[4] and P. H. Lipkin[5,6], (1)Interactive Autism Network, Baltimore, MD, (2)Painter Bldg 1st Fl, Kennedy Krieger Institute, Baltimore, MD, (3)Public Good Ventures, Ltd., Atlanta, GA, (4) Health Management and Informatics, University of Missouri-Columbia School of Medicine, Columbia, MO, (5)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD, (6)Pediatrics, Johns Hopkins School of Medicine, Baltimore, MD

271 ▸ 144.271 'You Are Labelled By Your Children's Disability' – a Community-Based, Participatory Study of Stigma Among Somali Parents of Children with Autism Living in the UK L. Selman[1], F. Fox[2], N. Aabe[3], K. Turner[1], D. Rai[1,4] and S. Redwood[2], (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)NIHR CLAHRC West, Bristol, United Kingdom, (3)Autism Independence, Bristol, United Kingdom, (4)BASS Autism Services for Adults, Avon & Wiltshire Partnership NHS Trust, Bristol, United Kingdom

272 144.272 "I Thought the Regional Center Was a Deportation Trap" Documenting the Life Experiences of Undocumented Mexican Mothers of Children with Autism P. Luelmo[1], Y. Sandoval[2], A. Ochoa[3] and C. Kasari[2], (1)Education, University of California, Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)Fiesta Educativa, Inc., Los Angeles, CA

273 ▸ 144.273 "We Have to Fight More:" Experiences of Black and African American Families Raising Children with Autism S. Dababnah, W. E. Shaia and K. Campion, University of Maryland, Baltimore, Baltimore, MD

274 144.274 "You Have a Lot of Work on Your Hands": Unsupportive Social Interactions for Parents of Children with Autism J. B. Jones, M. N. Gragg and J. L. Bloom, University of Windsor, Windsor, ON, CANADA

275 144.275 "The Dots Just Don't Join up": Understanding the Support Needs of Families of Children on the Autism Spectrum J. Galpin[1], P. Barratt[1], E. Ashcroft[1], S. Greathead[1], L. Kenny[2] and E. Pellicano[2], (1)The Bridge School, London, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom

276 ▸ 144.276 Engaging Latino Families in ASD Treatment Research A. B. Ratto[1], B. J. Anthony[2], R. Mendez[2], J. Safer-Lichtenstein[2], M. Biel[3], S. Seese[4], L. Kenworthy[4] and L. G. Anthony[4], (1)Children's National Medical Center, Washington, DC, (2)Center for Child and Human Development, Georgetown University, Washington, DC, (3)Georgetown University, Washington, DC, (4)Children's National Health System, Washington, DC

277 144.277 Using Community Partnerships to Address the Fit of an Evidence-Based, Parent Mediated Intervention for ASD in a Medicaid System K. Pickard and B. Ingersoll, Michigan State University, East Lansing, MI

278 ▸ 144.278 Partnering to Adapt Evidence-Based Intervention for Delivery with Ethnic Minority Families S. R. Rieth[1,2], L. Brookman-Frazee[2,3], K. S. Dickson[2,3], K. L. Searcy[4] and A. C. Stahmer[2,5], (1)San Diego State University, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)University of California, San Diego, La Jolla, CA, (4)Crimson Center for Speech and Language Pathology, San Diego, CA, (5)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

279 ▸ 144.279 A Community-Partnered Intervention in South Los Angeles for Young Children at-Risk for ASD A. Gulsrud[1], T. Carr[2], J. Panganiban[3], C. Kasari[4], N. Tu[5], G. Hellemann[5], F. Jones[6] and J. Kimbrough[7], (1)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)University of California, Los Angeles, Los Angeles, CA, (5)UCLA Semel Institute, Los Angeles, CA, (6)Healthy African American Families, Los Angeles, CA, (7)The Children's Collective, Inc., Los Angeles, CA

280 144.280 The Broad Autism Phenotype and Parenting Sense of Competence in Mothers of Children with Autism Spectrum Disorder N. Ekas, Psychology, Texas Christian University, Fort Worth, TX

281 144.281 Parenting Practices, Temperament, and Depressive Symptoms in School-Aged Children with Autism Spectrum Disorder J. McCauley[1], E. J. Adler[2], K. Argente[2], P. C. Mundy[3] and M. Solomon[2], (1)UC Davis MIND Institute, Sacramento, CA, (2)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (3)University of California at Davis, Sacramento, CA

282 144.282 What Contributes to Parenting Stress and Challenges in the Parent-Adolescent Dyad?: Consideration of Both Parent and Adolescent Factors. H. K. Schiltz[1], A. McVey[1], A. D. Haendel[2], B. Dolan[1], K. A. Willar[3], S. Stevens[4], J. S. Karst[5], A. M. Carson[6], F. Mata-Greve[1], E. Vogt[1], N. Fritz[1], J. Hilger[7], E. Habisohn[1], K. M. Rivera[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI, (3)Children's Hospital Colorado, Aurora, CO, (4)University of Minnesota Medical School, Blaine, MN, (5)Medical College of WI, Wauwatosa, WI, (6)Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (7)Illinois State University, Normal, IL

283 144.283 Correlates of Barriers to Service Access for Individuals with ASD Across the Lifespan: Findings from a Canadian National Survey J. Lai[1] and J. A. Weiss[2], (1)Psychology, York University, Montreal, QC, CANADA, (2)York University, Toronto, ON, CANADA

284 144.284 Family Quality of Life While Waiting for Government Funded Applied Behaviour Analysis Services for Children with ASD M. Lloyd[1] and S. Jones[2], (1)University of Ontario Institute of Technology, Oshawa, ON, CANADA, (2)University of Ontario Institute of Technology, Oshawa, ON, Canada

285 144.285 Family Quality of Life within the Context of a Participant-Directed ASD Funding Program E. C. Gardiner[1] and G. Iarocci[2], (1)Pediatrics, University of British Columbia, West Vancouver, BC, CANADA, (2)Simon Fraser University, Burnaby, BC, CANADA

286 144.286 Examining the Impact of an Hcbs Autism Waiver on Families of Children with Autism in Maryland: A Mixed-Design Study K. Eskow[1] and J. A. Summers[2], (1)Towson University, Towson, MD, (2) University of Kansas, Lawrence, KS

287 144.287 Multi-Disciplinary Team Work in Israeli ASD-Preschools: What Does It Take for a Whole to be Greater Than the Sum of Its Parts? Y. Sinai-Gavrilov[1], T. Gev[1,2], I. Mor Snir[2] and O. Golan[1], (1) Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2) Association for Children at Risk, Givat-Shmuel, Israel

## Poster Session
145 - Miscellaneous
12:00 PM - 1:40 PM - Golden Gate Ballroom

288 145.288 Evaluating Long-Term Effects of an Early Detection Program for Autism Spectrum Disorder in the Netherlands M. K. J. Pijl[1,2], J. K. Buitelaar[1,2], M. W. P. de Korte[1,2], N. N. J. Rommelse[2,3] and I. J. Oosterling[1,2], (1)Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (2) Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (3)Department of Psychiatry, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands

289 145.289 Dysregulated Microbiome in People and Mice with Autism-Associated Genetic Mutations L. Tabouy[1], O. Ziv[1], O. Koren[1] and E. Elliott[2], (1)Bar Ilan University, Safed, Israel, (2)Bar-Ilan University, Safed, ISRAEL

290 145.290 Performance-Based Social Skills Training Improves Treatment Outcomes for Youth with Comorbid ADHD or Anxiety A. H. Gerber[1], E. Kang[2], A. Mulhall[1], T. Clarkson[1] and M. D. Lerner[2], (1) Psychology, Stony Brook University, Stony Brook, NY, (2)Stony Brook University, Stony Brook, NY

## Oral Session - 6A
146 - Maternal Factors that Impact the In Utero Environment and Autism-related Outcomes
1:45 PM - 2:35 PM - Yerba Buena 3-6

1:45 146.001 Maternal SSRI Exposure Results in Developmental and Long-Term Social Behavior Disruptions in Offspring. S. E. Maloney, S. Akula, K. B. McCullough, K. Chandler, C. Jakes, S. Avdagic, M. A. Rieger and J. Dougherty, Genetics, Washington University School of Medicine, St. Louis, MO

1:57 146.002 Maternal Antibodies in Autism Spectrum Disorder: Isolation and Specificity L. Brimberg[1], S. Mader[1], V. Jeganathan[2], T. R. Coleman[2], P. Gregersen[2], P. T. Huerta[2], B. Volpe[2] and B. Diamond[3], (1)Center for Autoimmune and Musculoskeletal Diseases, The Feinstein Institute for medical Research, Manhasset, NY, (2)The Feinstein Institute for medical Research, Manhasset, NY, (3)The Feinstein Institute for Medical Research, Manahasset, NY

2:09 146.003 Maternal and Fetal Genetic Control of Mid-Gestational and Neonatal Levels of Markers of Immune Function L. Weiss[1], L. S. Heuer[2], M. Traglia[1], C. Yoshida[3], R. Hansen[4], R. Yolken[5], O. Zerbo[6], J. Van de Water[7], G. C. Windham[8], M. Kharrazi[8], . N. Delorenze[3], P. Ashwood[9], L. A. Croen[3] and K. L. Jones[7], (1) Department of Psychiatry and Institute for Human Genetics, University of California San Francisco, San Francisco, CA, (2) University of California, Daivs, CA, (3)Kaiser Permanente Division of Research, Oakland, CA, (4)UCD MIND Institute, Sacramento, CA, (5)Johns Hopkins University School of Medicine, Baltimore, MD, (6)Kaiser Permanente, Oakland, CA, (7)University of California at Davis MIND Institute, Davis, CA, (8)Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA, (9)UC Davis, Sacramento, CA

2:21 146.004 Maternal Whole Blood Serotonin Levels Are Inversely Correlated with Social Difficulty, Language Impairment, and Repetitive Behavior in Offspring with Autism Spectrum Disorder. A. K. Montgomery[1,2,3], L. C. Shuffrey[1,4,5,6], S. J. Guter[7], G. M. Anderson[8], S. Jacob[9], E. H. Cook[10] and J. Veenstra-Vander Weele[1,4,5,11], (1)Department of Psychiatry, Columbia University Medical Center, New York, NY, (2)New York Presbyterian Hospital - Westchester Division, Center for Autism and the Developing Brain, White Plains, NY, (3)Department of Child & Adolescent Psychiatry, New York State Psychiatric Institute, New York, NY, (4)Department of Child and Adolescent Psychiatry, New York State Psychiatric Institute, New York, NY, (5)Center for Autism and the Developing Brain, New York-Presbyterian Hospital, White Plains, NY, (6)Teachers College, Columbia University, New York, NY, (7)University of Illinois at Chicago, Chicago, IL, (8)Yale University School of Medicine, New Haven, CT, (9)University of Minnesota, Minneapolis, MN, (10)Psychiatry, University of Illinos at Chicago, Chicago, IL, (11)Weill Medical College of Cornell University, Sackler Institute for Developmental Psychobiology, New York, NY

## Oral Session - 6B
147 - Epidemiology: Risks and Prevalence
2:40 PM - 3:30 PM - Yerba Buena 3-6

2:40 147.001 Maternal Insecticide Exposure during Pregnancy and Risk of Autism in Offspring from a National Birth Cohort A. S. Brown[1], K. Cheslack-Postava[1], P. Rantakokko[2], H. M. Surcel[3], S. Hinkka-Yli-Salomäki[4], I. W. McKeague[5], H. A. Kiviranta[6] and A. Sourander[7], (1)Columbia University Medical Center, New York, NY, (2)National Institute for Health and Welfare, Helsinki, Finland, (3)National Institute for Health and Welfare, Turku, Finland, (4)Research Centre of Child Psychiatry, University of Turku, Turku, FINLAND, (5)Columbia University Mailman School of Public Health, New York, NY, (6)Health Protection, National Institute for Health and Welfare, Helsinki, Finland, (7)University of Turku, 20014 Turku, FINLAND

2:52 147.002 Prevalence of Autism Spectrum Disorders Among Young Adults in Union County, New Jersey W. W. Zahorodny[1], A. Fusco[2], J. Shenouda[3], M. Waale[2] and A. E. Mars[4], (1)New Jersey Medical School, Westfield, NJ, (2)Rutgers - NJ Medical School, Newark, NJ, (3)Rutgers University, Newark, NJ, (4) Hunterdon Regional Autism Center, Yardley, PA

3:04 ▸147.003 Determinants of Autism Prevalence in Hispanics D. H. Hoang[1], G. Xing[2] and C. K. Walker[3,4], (1)Division of Epidemiology, Department of Public Health Sciences, School of Medicine,, University of California, Davis, Davis, CA, (2)Center for Healthcare Policy and Research, University of California, Davis, Sacramento, CA, (3)Obstetrics and Gynecology, University of California, Davis, Sacramento, CA, (4)MIND Institute, University of California, Davis, Sacramento, CA

3:16 ▸147.004 Parent-Report Delays in Diagnosis and Service Initiation for African-American Children in a Multi-Site National Study A. Abbacchi[1], Y. Zhang[2], R. Fitzgerald[1], A. Roux[3], P. Shattuck[3], C. A. Saulnier[4], J. C. Bates[5], S. Molholm[5], J. K. Lowe[6], D. H. Geschwind[7] and J. N. Constantino[8], (1) Washington University School of Medicine, St. Louis, MO, (2) Washington University School of Medicine, Saint Louis, MO, (3) Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (4)Children's Healthcare of Atlanta, Emory University, Marcus Autism Center, Atlanta, GA, (5)Albert Einstein College of Medicine, Bronx, NY, (6)Geschwind Lab, University of California, Los Angeles, Los Angeles, CA, (7)UCLA, Los Angeles, CA, (8) Department of Psychiatry, Washington University School of Medicine, St. Louis, MO

## Oral Session - 7A

148 - Developmental Processes of Distinct Repetitive and Sensorimotor Behaviors

1:45 PM - 2:35 PM - Yerba Buena 7

1:45 148.001 Examining Cognitive Inflexibility and Anxiety in Relation to Restricted, Repetitive Behaviours in Autism Spectrum Disorders in a Large Multi-Site Study D. V. Crawley[1], J. Ahmad[2], H. den Ouden[3], G. Dumas[4], J. E. Tillmann[5], A. San Jose Caceres[6], T. Charman[7], J. K. Buitelaar[3], D. G. Murphy[8] and E. Loth[9], (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology, and Neuroscience, King's College London, London, United Kingdom, (3)Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (4)Institut Pasteur, Paris, France, (5) King's College London, London, England, United Kingdom, (6) Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (8)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

1:57 148.002 Examining Convergent and Divergent Validity of the Repetitive Behavior Scale for Early Childhood (RBS-EC) C. Lasch[1], J. J. Wolff[2] and J. T. Elison[2], (1)Institute of Child Development, University of Minnesota, Minneapolis, MN, (2) University of Minnesota, Minneapolis, MN

2:09 148.003 Characterizing Restricted and Repetitive Behaviors: Exploring the Influence of Age on Rrb Phenotype Clusters K. Berry[1] and A. Sturm[2], (1)Psychology, Michigan State University, Lansing, MI, (2)UCLA, Los Angeles, CA

2:21 148.004 Intrainsular Connectivity and Somatosensory Responsiveness in Young Children with ASD M. D. Failla[1], B. R. Peters[1], H. Karbasforoushan[2], J. H. Foss-Feig[3], K. Schauder[4] and C. J. Cascio[5], (1)Psychiatry, Vanderbilt University, Nashville, TN, (2)Neuroscience, Northwestern University, Chicago, IL, (3)Psychiatry, Seaver Autism Center, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, (4)University of Rochester, Rochester, NY, (5)Vanderbilt University School of Medicine, Nashville, TN

## Oral Session - 7B

149 - Physiological Markers of Sensory Processes Differentiating ASD and Related NDDs

2:40 PM - 3:30 PM - Yerba Buena 7

2:40 149.001 Evidence for Domain Specificity of Cortical Auditory and Somatosensory Response Delays in ASD C. Demopoulos[1], N. Yu[2], J. Tripp[1], A. Brandes-aitken[3], S. Desai[2], S. S. Hill[2], A. D. Antovich[4], J. Harris[2], S. Honma[1], D. Mizuiri[1], N. G. Mota Miranda[1], S. Nagarajan[1] and E. Marco[5], (1)Radiology & Biomedical Imaging, UCSF, San Francisco, CA, (2)Neurology, UCSF, San Francisco, CA, (3)University of California, San Francsico, San Francisco, CA, (4)N, UCSF, San Francisco, CA, (5)University of California, San Francisco, Larkspur, CA

2:52 149.002 Neuromagnetic Responses to Tactile Stimulation of the Fingers: Evidence for Reduced Cortical Inhibition for Children with Autism and Children with Epilepsy W. Gaetz[1], M. Jurkiewicz[2], S. Kilaru Kessler[3], L. Blaskey[4], E. S. Schwartz[1] and T. P. Roberts[4], (1)Radiology, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Division of Neuroradiology, The University of Pennsylvania Health System, Philadelphia, PA, (3)Neurology and Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, (4)The Children's Hospital of Philadelphia, Philadelphia, PA

3:04 149.003 Can Parent Report and Direct Assessment Measures Enhance Sensory over-Responsivity Phenotyping and Inform the Neural Underpinnings of Sensory Processing Symptoms? E. Marco[1], A. Brandes-aitken[2], T. Tavassoli[3], L. J. Miller[4], S. A. Schoen[5], J. Owen[6] and P. Mukherjee[7], (1)University of California, San Francisco, Larkspur, CA, (2)University of California, San Francsico, San Francisco, CA, (3)Seaver Autism Center, New York, NY, (4)STAR Institute for SPD, Greenwood Village, CO, (5)Sensory Processing Disorder Foundation, Greenwood, CO, (6)Neurology, UCSF, San Francisco, CA, (7) University of California, San Francisco, San Francisco, CA

3:16 149.004 Visuomotor Integration: A Potential Biomarker of Autism Spectrum Disorder in Lab and Community-Based Settings H. L. Miller[1], P. Caçola[2], G. Sherrod[1] and N. Bugnariu[1], (1) University of North Texas Health Science Center, Fort Worth, TX, (2)University of Texas at Arlington, Arlington, TX

## Oral Session - 8A

150 - Perception, Memory, Language, and Decision Making
1:45 PM - 2:35 PM - Yerba Buena 8

1:45 150.001 The Influence of Prior Knowledge on Immediate Memory for Objects in ASD S. Pisani, M. Poirier, D. M. Bowler and S. B. Gaigg, Psychology, City, University of London, London, United Kingdom

1:57 150.002 Decision-Making Under Ambiguity and Risk in Adolescents and Young Adults with Autism Spectrum Disorder M. K. Krug, C. C. Coleman, G. C. Gower and M. Solomon, Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

2:09 150.003 Imitation, Joint Attention and Language Development in Autism Spectrum Disorder L. E. MacKenzie[1], I. M. Smith[2], J. Volden[3], E. Duku[4], S. Georgiades[4], T. Bennett[5], P. Szatmari[6], P. Mirenda[7], T. Vaillancourt[8], L. Zwaigenbaum[9] and M. Elsabbagh[10], (1)Psychology and Neuroscience, Dalhousie University, Halifax, NS, Canada, (2)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (3)University of Alberta, University of Alberta, AB, CANADA, (4)McMaster University, Hamilton, ON, CANADA, (5)Offord Centre for Child Studies, McMaster University, Hamilton, ON, CANADA, (6)Centre for Addiction and Mental Health, Toronto, ON, CANADA, (7) University of British Columbia, Vancouver, BC, CANADA, (8) University of Ottawa, Ottawa, ON, CANADA, (9)University of Alberta, Edmonton, AB, CANADA, (10)McGill University, Montreal, CANADA

2:21 150.004 Enhanced Perceptual Capacity in the Classroom: Harnessing Cognitive Strengths to Promote Learning S. O'Brien[1], M. Hanley[2], D. M. Riby[2], J. Swettenham[3] and A. Remington[1], (1)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (2)Department of Psychology, Durham University, Durham, United Kingdom, (3)University College London, London, UNITED KINGDOM

## Oral Session - 8B

151 - Autism and Early Language Development
2:40 PM - 3:30 PM - Yerba Buena 8

2:40 151.001 Language Development in High-Familial Risk Infants Who Go on to Have Autism or Language Delay M. R. Swanson[1], S. Paterson[2], N. Marrus[3], M. D. Shen[4], R. Emerson[5], J. T. Elison[6], J. J. Wolff[6], H. C. Hazlett[4], K. Botteron[7], R. T. Schultz[8], K. Truong[9], L. Zwaigenbaum[10], A. Estes[11], J. Piven[12] and T. The IBIS Network[13], (1)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Carrboro, NC, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (4)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)UNC Chapel Hill, Durham, NC, (6)University of Minnesota, Minneapolis, MN, (7)Washington University School of Medicine, St Louis, MO, (8)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9) University of North Carolina at Chapel Hill, Chapel Hill, NC, (10) University of Alberta, Edmonton, AB, CANADA, (11)University of Washington Autism Center, Seattle, WA, (12)Carolina Institute for Developmental Disabilities, Carrboro, NC, (13)University of NC, Chapel Hill, NC

2:52 151.002 Minimally Verbal Two-Year-Olds with ASD Succeed in Using Linguistic Information to Generate Expectations about the Visual World A. Fitch[1], A. Valadez[1], P. A. Ganea[2], A. S. Carter[3] and Z. Kaldy[1], (1)Psychology, University of Massachusetts Boston, Boston, MA, (2)Applied Psychology & Human Development, University of Toronto, Toronto, ON, Canada, (3)University of Massachusetts Boston, Boston, MA

3:04 151.003 Weak Organization of Semantic Categories in Young Children with ASD C. E. Venker[1], E. Premo[2], T. Mahr[1], J. Edwards[3], J. R. Saffran[4] and S. Ellis-Weismer[5], (1)Waisman Center, University of Wisconsin-Madison, Madison, WI, (2) University of Wisconsin - Madison, Madison, WI, (3)Hearing and Speech Sciences, University of Maryland, College Park, MD, (4) Psychology, University of Wisconsin-Madison, Madison, WI, (5) University of Wisconsin-Madison, Madison, WI

3:16 151.004 How Beginning to Speak Alters Early Parent-Child Interactions in Autism L. B. Adamson[1], R. Bakeman[1], K. Suma[1] and D. L. Robins[2], (1)Georgia State University, Atlanta, GA, (2) Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

## Oral Session - 9A

152 - Early Developmental Profiles
1:45 PM - 2:35 PM - Yerba Buena 9

1:45 152.001 Comparison of Social Motivation and Sticky Attention Models of Early Development in ASD A. T. Meyer[1], L. G. Klinger[2], L. Turner-Brown[3], S. Nowell[1], E. Crais[4], G. T. Baranek[4] and L. R. Watson[4], (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

1:57 152.002 Early Developmental Trajectories of Social Contingency Predict Language Outcome in Toddlers with ASD R. M. Fleurissaint, J. Bailey, S. Ghai and G. Ramsay, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

2:09 152.003 The Fluid Nature of the Very Early ASD Phenotype: Examination of Diagnostic Stability of ASD within a General Population Cohort K. Pierce[1], E. C. Bacon[2], C. C. Barnes[3], D. Cha[4], L. Pence[5], B. Kellman[4] and E. Courchesne[3], (1) Neurosciences, University of California, San Diego, La Jolla, CA, (2)University of California San Diego, La Jolla, CA, (3) University of California, San Diego, San Diego, CA, (4)University of California, San Diego, La Jolla, CA, (5)University of Colorado, Boulder, CO

2:21 152.004 Developmental Profile of Low Risk Children with Autism Spectrum Disorder during the First Two Year of Life M. Davidovitch[1,2], N. Stein[3], G. Koren[4,5] and B. C. Friedman[6], (1)Child Development, Maccabi Healthcare Services, Tel Aviv, Israel, (2)Faculty of Medicine in the Galilee, Bar-Ilan University, Safed, Israel, (3)Maccabi Heathcare Services, Tel Aviv, Israel, (4)Research, Maccabi Healthcare Services, Tel Aviv, Israel, (5) University of Toronto and University of Western Ontario, Toronto, Canada, (6)Child Development, Maccabi Heathcare Services, Haifa, Israel

## Oral Session - 9B

153 - Behavior in High-risk Infants
2:40 PM - 3:30 PM - Yerba Buena 9

2:40 153.001 Neural Correlates of Early Language Processing in 9-Month-Old Infants at Risk for ASD T. Tsang[1], J. Liu[1], L. P. Jackson[2], C. Ponting[3], S. S. Jeste[4], S. Y. Bookheimer[1] and M. Dapretto[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)Semel Institute, UCLA, Los Angeles, CA, (3) Clinical Psychology, UCLA, Los Angeles, CA, (4)UCLA, Los Angeles, CA

2:52 153.002 Parent and Clinician Agreement in Early Behavioural Signs in 12-Month-Old Infants at-Risk of Autism Spectrum Disorder: A High-Risk Sibling Cohort L. A. Sacrey[1], L. Zwaigenbaum[2], S. E. Bryson[3], J. A. Brian[4], I. M. Smith[5], W. Roberts[6], P. Szatmari[7], T. Vaillancourt[8], C. Roncadin[9] and N. Garon[10], (1)Autism Research Centre, Edmonton, AB, CANADA, (2)University of Alberta, Edmonton, AB, CANADA, (3)Dalhousie University, Halifax, NS, CANADA, (4)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (5) Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (6)University of Toronto, Toronto, ON, CANADA, (7)Centre for Addiction and Mental Health, Toronto, ON, CANADA, (8) University of Ottawa, Ottawa, ON, CANADA, (9)Autism Spectrum Disorder Service, McMaster Children's Hospital - Hamilton Health Sciences, Hamilton, ON, CANADA, (10)Mount Allison University, Sackville, NB, CANADA

3:04 153.003 Patterns of Face Gaze Among Infants at Risk for ASD A. Milgramm[1], S. Macari[1], F. E. Kane-Grade[2], P. Heymann[1], E. Hilton[1] and K. Chawarska[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Yale child Study Center, New Haven, CT

3:16 153.004 Now You See It, Now You Don›t: Context-Dependent Dyadic Vulnerabilities in Infants with ASD in the First Year of Life. S. Macari, A. Milgramm, P. Heymann, F. E. Kane-Grade, E. Hilton and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

## Oral Session - 10A

154 - International and Cultural Perspectives on Family Wellbeing
1:45 PM - 2:35 PM - Yerba Buena 10-14

1:45 ▸ 154.001 Profile and Impact of Participating in a Parent Support Group in Latin America J. P. Berman[1,2], S. H. Cukier[2], R. A. Garcia[3], G. Garrido[4], C. Montiel-Nava[5], C. S. Paula[6], A. Rattazzi[2], A. Rosoli[7] and D. Valdez[8], (1)The Fulbright Program, Buenos Aires, Argentina, (2)PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Argentina, (3)Universidad de Chile, Santiago, CHILE, (4)Universidad de la República, Montevideo, URUGUAY, (5)La Universidad del Zulia, Gainesville, GA, (6) Developmental Disorder Program, Mackenzie Presbyterian Univesrsity, Sao Paulo, BRAZIL, (7)OEI, Santo Domingo, Dominican Republic, (8)FLACSO, Buenos Aires, Argentina

1:57 ▸ 154.002 Stress, Coping, Stigma and Acculturation in Arab American Caregivers of Children with Autism Spectrum Disorder S. I. Habayeb[1], B. Rich[1], S. Dababnah[2] and A. John[3], (1)Catholic University of America, Washington, DC, (2)University of Maryland, Baltimore, Baltimore, MD, (3)Texas Christian University, Fort Worth, TX

2:09 ▸ 154.003 Bcri: A Family-Based Early Behavioral Intervention Program for Children with Autism Spectrum Disorders in Chinese Population B. Chen[1], F. Wang[2] and X. Zou[3], (1) Children Developmental & Behavioral Center, SUN YET-SEN UNIVERSITY, Guangzhou, Guangdong, China, (2)Child Developmental & Behavioral Center, Third Affiliated Hospital of SUN YAT-SEN University, GUANGZHOU, CHINA, (3)The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China

2:21 154.004 Mediators Between Receiving Early Interventions and Unmet Services Needs in Children: Findings from a Canadian National Survey J. Lai[1] and J. A. Weiss[2], (1)Psychology, York University, Montreal, QC, CANADA, (2)York University, Toronto, ON, CANADA

## Oral Session - 10B

155 - International and Cross-cultural Perspectives on Early Identification

2:40 PM - 3:30 PM - Yerba Buena 10-14

2:40 155.001 Change over Time in the Age and Number of Children Accessing Autism Specific Funding in Australia C. A. Bent[1], J. Barbaro[1] and C. Dissanayake[2], (1)Olga Tennison Autism Research Centre, School of Psychology & Public Health, La Trobe University, Melbourne, Australia, (2)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

2:52 ▸155.002 Where Are All the Children with Autism Spectrum Disorder (ASD) in South Africa? a Comprehensive Database Search for All School-Aged Children with ASD in the Western Cape Province S. Pillay[1], M. E. Duncan[2] and P. J. de Vries[3], (1) Health Sciences, University of Cape Town, Cape Town, South Africa, (2)University of Cape Town, Cape Town, South Africa, (3) University of Cape Town, Cape Town, SOUTH AFRICA

3:04 ▸155.003 Disparities in the Diagnosis of Autism Spectrum Disorder According to Aboriginality and Remoteness J. Fairthorne[1,2], H. Leonard[3], J. Bourke[4], A. J. Whitehouse[5], N. de Klerk[6] and C. Shepherd[7], (1)Disability, Telethon Kids Institute, Subiaco, Perth, AUSTRALIA, (2)British Columbia Children's Hospital Research Institute, Vancouver, Canada, (3) Disability, Telethon Kids Institute, West Perth, AUSTRALIA, (4) Disability, Telethon Kids Institute, Perth, Australia, (5)Telethon Kids Institute, University of Western Australia, Perth, Australia, (6) Biostatistics, Telethon kids Institute, Perth, Australia, (7)Aboriginal Health, Telethon Kids Institute, University of Western Australia, Perth, Australia

3:16 ▸155.004 Feasibility of the Autism Navigator® Training in South Africa N. J. Chambers[1], A. M. Wetherby[2] and P. J. de Vries[3], (1)Child and Adolescent Psychiatry, UCT, Cape Town, SOUTH AFRICA, (2)Florida State University Autism Institute, Tallahassee, FL, (3)University of Cape Town, Cape Town, SOUTH AFRICA

## Panel Session

156 - Parent/Caregiver Education Training for ASD – What Is the Best Model for Delivery, and How Do We Best Evaluate Outcomes?

3:30 PM - 5:00 PM - Yerba Buena 3-6

*Session Chair:* P. J. de Vries, *University of Cape Town, Cape Town, SOUTH AFRICA*

There is consensus that parent education training, often referred to as 'psycho-education', is an essential part of post-diagnostic intervention. However, there is not consensus on the best models to provide these trainings (e.g. duration, frequency, location and providers), or what key 'active ingredients' of parent education training might be. Furthermore, evaluation of parent education training programmes have been limited, and have typically consisted of 'pre-post' satisfaction questionnaires. There is therefore no broad-based evaluation framework to compare programmes, or to determine whether a programme had a positive outcome. In this panel, we present 5 very different parent education programmes to address these issues. In the first presentation, we examine an ultra-brief (1 hour) parent education training performed in a community setting in Tanzania. In the second and third presentations, we explore two programmes from India – a two-week inpatient and a 12-15 week non-residential group programme. Finally, we present an implementation science approach to two programmes evaluated in South Africa, one a 12-week widely-used, highly manualized programme from the UK (Early Bird/Early Bird plus), the other a locally-developed, one-week, non-residential outpatient programme. We aim to have a critical discussion to guide the development, evaluation and sustainable implementation of parent education training across the globe.

3:30 ▸156.001 Examining a Brief Intervention for Parents of Children with Autism in Global Contexts with Limited Resources A. J. Harrison[1], K. Long[2], K. P. Manji[3], K. K. Blane[4] and M. S. Kaff[5], (1)University of Georgia, Athens, GA, (2)Boston University, Boston, MA, (3)Muhimbili University, Dar Es Salaam, Tanzania, United Republic of, (4)Alpert Medical School of Brown University, East Providence, RI, (5)Special education, Kansas State University, Manhattan, KS

3:50 ▸156.002 The Impact of a Two-Week in-Patient Parent Training for Autism Spectrum Disorder in India P. K. Panchal, Department of Child & Adolescent Psychiatry, National Institute of Mental Health and Neurosciences, Bangalore, India

4:10 156.003 Parent Acceptance and Empowerment Training MODEL: Evidence from a Parent Training Intervention for ASD in New Delhi, India N. Singhal[1], M. Barua[1], T. C. Daley[2], R. S. Brezis[3] and T. Weisner[4], (1)Action For Autism, New Delhi, INDIA, (2)Westat, Durham, NC, (3)Interdisciplinary Center, Herzliya, ISRAEL, (4)UCLA, Los Angeles, CA

4:30 ▸156.004 An Implementation Science Approach to Parent Education Training – Generation of an Evaluation Framework and Comparison of Two Programmes in a South African Setting J. J. Dawson-Squibb, Division of Child & Adolescent Psychiatry, University of Cape Town, Cape Town, South Africa

## Panel Session
157 - Addressing Disparities through Interventions in Diverse Community Systems
3:30 PM - 5:00 PM - Yerba Buena 7

*Session Chair:* L. G. Anthony, *Children's National Health System, Washington, DC*

*Discussant:* C. Kasari, *University of California, Los Angeles, Los Angeles, CA*

Despite increases in awareness of ASD, there remain vast disparities in community-based screening, diagnosis, acceptance, inclusion, and access to evidence-based care. This panel will present findings from four very different community-based intervention projects; online resources to increase acceptance and reduce bias, a stakeholder informed primary care program to increase the rate of screening and referral for young Latino children; a school-based comparative effectiveness trial addressing executive function in low-income schools; and a program to increase the use of evidence-based practices in publically-funded mental health centers. Though the studies presented take place in very different community contexts, they share common goals of addressing disparities, using intensive stakeholder input and community partnerships for successful adaptations, and sustainability through using existing community-based systems and the staff who already work there. These projects and researchers also share common lessons learned, such as the amount of time that must be dedicated to building trusting relationships before making changes in disenfranchised communities, the need for creative and adaptive methodologies, that crucial stakeholder input must include individuals with ASD, their families and those in the community service systems, as well as the need for very specialized adaptations for each community and setting.

3:30 ▸157.001 Impact of a Supported Screening Program to Increase Identification and Assessment of Latino Children at Risk for ASD B. J. Anthony[1], K. Linas[1], M. Biel[2], R. Mendez[1], S. C. Dos Santos-Arquinio[1] and D. Jacobstein[1], (1)Center for Child and Human Development, Georgetown University, Washington, DC, (2)Georgetown University, Washington, DC

3:50 157.002 Addressing Disparities By Reducing Stigma and Increasing Acceptance?: Sesame Street's See Amazing in All Children Online Initiative L. G. Anthony[1], H. A. Robertson[2], S. Seese[1], A. D. Verbalis[1], C. Domitrovich[2], C. L. Dickter[3], J. Burk[3] and B. J. Anthony[4], (1)Children's National Health System, Washington, DC, (2)Georgetown University, Washington, DC, (3) College of William & Mary, Williamsburg, VA, (4)Center for Child and Human Development, Georgetown University, Washington, DC

4:10 ▸157.003 Provider and Caregiver Perspectives on Disparities in the Delivery of Evidence-Based Strategies in Publicly-Funded Mental Health Services: Implications for Intervention and Provider Training Models C. Chlebowski[1], B. Wright[2], S. Magana[3] and L. Brookman-Frazee[4], (1)University of California, San Diego, San Diego, CA, (2)UCLA, Los Angeles, CA, (3)Disability and Human Development, University of Illinois at Chicago, Chicago, IL, (4) University of California, San Diego, La Jolla, CA

4:30 ▸157.004 Differential Outcomes in an Addressing Disparities Comparative Effectiveness Trial of Community-Based Executive Function Treatments in ASD and ADHD L. Kenworthy[1], L. G. Anthony[1], K. Hardy[1], J. Safer-Lichtenstein[2], A. D. Verbalis[1], M. Biel[3], S. Seese[1], J. F. Strang[1], A. B. Ratto[4], C. E. Pugliese[4], C. K. Kraper[1], J. L. Martucci[1], M. C. Wills[4], C. Luong-Tran[5], L. Cannon[6], A. C. Sharber[5] and B. J. Anthony[2], (1)Children's National Health System, Washington, DC, (2)Center for Child and Human Development, Georgetown University, Washington, DC, (3)Georgetown University, Washington, DC, (4)Children's National Medical Center, Washington, DC, (5)Children's National Medical System, Washington, DC, (6)Ivymount School, Rockville, MD

4:50 Discussant

## Panel Session
158 - Developing Clinically Practicable Biomarkers for Autism Spectrum Disorder
3:30 PM - 5:00 PM - Yerba Buena 8

*Session Chair:* J. McPartland, *Child Study Center, Yale School of Medicine, New Haven, CT*

*Discussant:* J. McPartland, *Child Study Center, Yale School of Medicine, New Haven, CT*

Despite significant advances in understanding the biological bases of autism spectrum disorder (ASD), the field remains primarily reliant on observational and parent-report measures of behavior to guide clinical practice, conduct research, and evaluate intervention outcomes. There is a critical need for objective measures to more sensitively and validly quantify risk for ASD, ASD symptomatology, and its change in clinical trials. To maximize public health impact, such biomarkers must be cost-effective and utilize accessible and scalable technologies. This panel brings together five autism research centers, with panelists spanning early career faculty to senior leaders in the field. The biomarkers presented for study all rely on accessible and economical technologies. Three studies will be presented to highlight promising biomarker modalities that can be implemented feasibly in large clinical trials: electroencephalography (EEG), eye-tracking, and wearable autonomic sensors. A fourth study presents data integrating these modalities to provide unique composite information in the context of an ASD clinical trial. Discussion will focus on unique concerns for the development of biomarkers that can facilitate prediction of outcome and diagnostic stratification and on approaches to optimize understanding of these biomarkers through development of large-scale consortia and clinical networks.

3:30 158.001 Early Electrophysiological Biomarkers of Risk for ASD: Insights Gained from Studies of Infant Siblings and Tuberous Sclerosis Complex S. S. Jeste[1], K. J. Varcin[2], A. Dickinson[3], J. Frohlich[3], M. Dapretto[3] and C. A. Nelson[4], (1)UCLA, Los Angeles, CA, (2)Telethon Kids Institute, Perth, Australia, (3) University of California, Los Angeles, Los Angeles, CA, (4)Boston Children's Hospital, Boston, MA

3:50 158.002 Eye Tracking As a Spectrum of Biomarkers in Children with ASD F. Shic[1], Q. Wang[2], A. Naples[2], S. Macari[2] and K. Chawarska[2], (1)Seattle Children's Research Institute, Seattle, WA, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

4:10 158.003 Wearable Sensor-Based Physiological and Physical Activity Biomarkers for Use in Laboratory and Naturalistic Environments to Assess Arousal and Repetitive Motor Movements in Individuals with Autism Spectrum Disorder M. S. Goodwin, Northeastern University, Boston, MA

4:30 158.004 Use of Biomarkers to Assess Outcomes in a Phase 1 Open Label Trial of Autologous Cord Blood in Young Children with Autism Spectrum Disorder G. Dawson[1], J. M. Sun[2], K. S. Davlantis[3], M. Murias[4], L. Franz[4], J. Troy[2], R. Simmons[5], M. Sabatos-DeVito[6], R. Durham[7,8], A. Song[9] and J. Kurtzberg[2], (1)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (2)Department of Pediatrics, Duke University School of Medicine, Durham, NC, (3)Duke Center for Autism and Brain Development, Durham, NC, (4)Duke University, Durham, NC, (5)Department of Biostatistics, Duke University School of Medicine, Durham, NC, (6)Duke University Medical Center, Durham, NC, (7)Department of Pediatrics, Duke University, Durham, NC, (8)CT2, Duke University, Durham, NC, (9)Department of Radiology, Duke University School of Medicine, Durham, NC

4:50 Discussant

## Panel Session

### 159 - Abnormalities of Neuronal Migration in Autism Spectrum Disorder

3:30 PM - 5:00 PM - Yerba Buena 9

*Session Chair:* M. F. Casanova, *University of South Carolina School of Medicine, Greenville, SC*

This panel will present tombstones of migratory abnormalities in the brains of ASD individuals. First, neuroimaging techniques have found a blurring of the gray/white matter junction. The blurring is the result of a migratory defect where cells going to the cerebral cortex get stuck in the subplate region. Second, we will explore the neuropathology of corpus callosum abnormalities in order to indicate that axonal guidance defects are closely related to abnormalities of neuronal migration, e.g., heterotopias, an increase in subpial neurons, and cortical malformations. These neuropathological findings have been reported in a significant number of ASD individuals. Third, diffusion tensor imaging (DTI) of the cerebral cortex of ASD individuals have shown abnormalities in diffusivity that correspond to minicolumnar disorganization. Lastly, during corticogenesis radially migrating neuroblasts interact with tangentially migrating neuroblasts to form physiological dyads. In ASD an apparent heterochonic migration of radial cells results in anomalous cellular dyads and a relative reduction of interneurons. The findings presented in this panel indicate that ASD is a neurodevelopmental disorder. The large variety of mechanisms involved in cellular migration as well as large time span that this process occupies during brain development may help explain some of the clinical heterogeneity observed in ASD.

3:30 159.001 In Vivo Evidence of Reduced Integrity of the Grey-White Matter Boundary in Autism Spectrum Disorder D. Andrews[1], T. A. Avino[2], M. Gudbrandsen[1], E. Daly[1], A. Marquand[3,4], C. M. Murphy[1,5], M. C. Lai[6,7,8], M. V. Lombardo[6,9], A. N. Ruigrok[6], S. C. Williams[4], E. Bullmore[10], J. Suckling[10], S. Baron-Cohen[6], M. C. Craig[1,5], D. G. Murphy[1,5] and C. Ecker[1,11], (1)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Psychiatry & Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (3)Donders Institute for Brain, Cognition and Behaviour, Radbound University, Nijmegen, Netherlands, (4)Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)National Autism Unit, Bethlem Royal Hospital, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (6)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (7)Child and Youth Mental Health Collaborative at the Centre for Addiction and Mental Health and The Hospital for Sick Children, Department of Psychiatry, University of Toronto, Toronto, Canada, (8)Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, (9)University of Cyprus, Nicosia, Cyprus, (10)Brain Mapping Unit, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (11) Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany

3:50 159.002 A Deficit of Long-Range Connectivity Due to Corpus Callosum Hypoplasia Is Present in Idiopathic and Syndromic (dup15) Autism J. Wegiel[1], W. Kaczmarski[2], T. Wisniewski[3], W. T. Brown[4], K. K. Chadman[5], E. London[6], K. Nowicki[3], I. Kuchna[6], S. Y. Ma[3] and J. Wegiel[7], (1)New York State IBR, Staten Island, NY, (2)Morphometry Laboratory, Institute for Basic Research, Staten Island, NY, (3)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (4) Institute for Basic Research, Staten Island, NY, (5)New York State Institute for Basic Research, Staten Island, NY, (6)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (7)NYS IBR, Warren, NJ

4:10 159.003 Altered Cellular Organisation in the Cerebral Cortex: A New Imaging Measure of Cortical Microstructure to Meet the Challenge of Heterogeneity in Autism S. Chance[1], M. Torso[2], R. McKavanagh[3], M. Ravishankar[3], K. Miller[2], S. Sunaert[4] and M. Jenkinson[2], (1)John Radcliffe Hospital, Oxford, Oxfordshire, UNITED KINGDOM, (2)University of Oxford, Oxford, United Kingdom, (3)University of Oxford, Oxford, UNITED KINGDOM, (4) University of Leuven, Leuven, BELGIUM

4:30 159.004 Chandellier Cells Modify the Balance of Excitation/ Inhibition in Autism V. Martinez Cerdeno, UC Davis, Sacramento, CA

## Poster Session
160 - Brain Function (fMRI, fcMRI, MRS, EEG, ERP, MEG) II
5:00 PM - 6:30 PM - Golden Gate Ballroom

1 160.001 A Functional Connectivity-Based Evaluation of Competing Models of Sex Differentiation and Autism D. L. Floris[1], M. C. Lai[2], T. Nath[1], M. P. Milham[3] and A. Di Martino[1], (1)NYU Child Study Center, New York, NY, (2)Psychiatry, University of Toronto, Toronto, ON, CANADA, (3)Institute for Pediatric Neuroscience, NY, NY

2 160.002 A Preliminary Magnetic Resonance Spectroscopy Investigation Sex Differences in Gamma-Aminobutyric Acid in Autism Spectrum Disorder M. Kirkovski[1], C. Suo[2], P. G. Enticott[1], M. Yucel[2] and P. Fitzgerald[2], (1)Deakin University, Geelong, AUSTRALIA, (2)Monash University, Melbourne, Australia

3 160.003 Abnormal Functional Activation and Maturation of Ventromedial Prefrontal Cortex and Cerebellum during Temporal Discounting in Adolescents and Adults with Autism Spectrum Disorder: A Cross-Sectional Developmental fMRI Investigation C. M. Murphy[1], A. Christakou[2], E. Daly[3], C. Ecker[4], P. Johnston[5], V. Giampietro[6], M. Brammer[7], D. Robertson[8], D. Spain[2], M. Consortium[9], D. G. Murphy[3] and K. Rubia[10], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)King's College London, Institute of Psychiatry,, London, UNITED KINGDOM, (3)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4) Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany, (5)Institute of Psychiatry, King's College London, London, UNITED KINGDOM, (6)Department of Neuroimaging, The Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (7)Institute of Psychiatry, Psychology and Neuroscience, London, UNITED KINGDOM, (8)Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (9)Institute of Psychiatry, Psychology and Neuroscience, London, United Kingdom, (10)Department of Child & Adolescent Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

4 160.004 Abnormal Functional Connectivity Underling Social-Communicative Impairments in Autism Spectrum Disorder F. Zhang[1,2], H. Roeyers[2], G. Feng[1,3] and S. Wang[1], (1)School of Psychology, South China Normal University, Guangzhou, China, (2)Department of Experimental-Clinical and Health Psychology, Ghent University, Ghent, Belgium, (3)University of Texas at Austin, Austin, TX

5 160.005 Alterations in Brain Entropy in Autism Spectrum Disorders J. O. Maximo[1], D. L. Murdaugh[1,2] and R. K. Kana[1], (1)University of Alabama at Birmingham, Birmingham, AL, (2)Children's Healthcare of Atlanta, Atlanta, GA

6 160.006 Autistic Traits Modulate Gaze and Neural Activity in Constrained Versus Unconstrained Conditions K. Stinson[1], S. A. A. Chang[2], S. M. Malak[3], J. A. Trapani[3], J. McPartland[3] and A. Naples[4], (1)Yale University- Child Study Center, New Haven, CT, (2) Yale University, New Haven, CT, (3)Child Study Center, Yale School of Medicine, New Haven, CT, (4)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

7 160.007 Behavioral Response Error Monitoring and Correction Function Deficits in Autism G. Sokhadze[1], E. M. Sokhadze[1], D. P. Kelly[2] and M. F. Casanova[3], (1)University of Louisville, Louisville, KY, (2)Pediatrics, Greenville Health System, Greenville, SC, (3)Greenville Campus Greenville Health Systems, University of South Carolina School of Medicine, Greenville, SC

8 160.008 Bias Towards within-Network Functional Connectivity Among Toddlers with ASD during Resting State M. C. Datko[1], M. V. Lombardo[2,3], L. T. Eyler[1], K. Pierce[1] and E. Courchesne[1], (1) University of California, San Diego, San Diego, CA, (2)University of Cambridge, Cambridge, United Kingdom, (3)University of Cyprus, Nicosia, Cyprus

9 160.009 Characterizing the Heterogeneity in Autism Spectrum Disorder Using Brain Connectivity Underlying Social Cognition M. Thye[1] and R. K. Kana[2], (1)Psychology, University of Alabama at Birmingham, Birmingham, AL, (2)University of Alabama at Birmingham, Birmingham, AL

10 160.010 Comparison of Functional Connectivity Abnormalities in Autism and Williams Syndrome J. S. Anderson[1], L. Dai[1], M. D. Prigge[1], M. South[2], J. B. King[3] and J. R. Korenberg[4], (1)University of Utah, Salt Lake City, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT, (3)Program in Neuroscience, University of Utah, Salt Lake City, UT, (4)Pediatrics, University of Utah, Salt Lake City, UT

11 160.011 Comparison of Neural Response to Language in Infants at Elevated Risk for ASD and in Infants with Nonsyndromic Craniosynostosis A. H. Sun[1,2], M. J. Rolison[3], T. A. Halligan[1], C. Chuang[1,2], J. F. Yang[2], P. Hashim[2], K. Chawarska[1], D. M. Steinbacher[2], N. Landi[4], . Mayes[1], J. A. Persing[2] and J. McPartland[1], (1)Yale Child Study Center, Yale School of Medicine, New Haven, CT, (2)Section of Plastic and Reconstructive Surgery, Yale School of Medicine, New Haven, CT, (3) Child Study Center, Yale School of Medicine, New Haven, CT, (4)Haskins Laboratories, Yale University, New Haven, CT

12 160.012 Decreased Slow-Wave Activity in Sleeping Children with Autism A. Arazi[1,2], A. Tarasiuk[3,4], L. Manelis[5,6], G. Meiri[6] and I. Dinstein[1,2,5], (1)Department of Cognitive and Brain Sciences, Ben Gurion University of the Negev, Beer-Sheva, Israel, (2)Zlotowski center for neuroscience, Ben Gurion University of the Negev, Beer-Sheva, Israel, (3)Sleep-Wake Disorders Unit, Soroka University Medical Center, Beer-Sheva, Israel, (4)Department of Physiology, Ben Gurion University of the Negev, Beer-Sheva, Israel, (5)Department of Psychology, Ben Gurion University of the Negev, Beer-Sheva, Israel, (6)Pre-School Psychiatry Unit, Soroka University Medical Center, Beer-Sheva, Israel

13 160.013 Delayed but Not Deviant Developmental Trajectories Related to Language Impairment in Children with Autism Spectrum Disorder: Neural and Behavioral Evidence E. Kwok[1], G. Albakri[2], M. K. Wang[1] and J. Oram Cardy[1], (1)Western University, London, ON, Canada, (2)School of Health Studies, University of Western Ontario, London, ON, Canada

14 160.014 Developmental Differences in the N170 in Individuals with Autism Spectrum Disorder C. M. Esposito[1], C. M. Keifer[2], E. Kang[2], L. A. Santore[2], J. G. Genovese[2] and M. D. Lerner[2], (1)Stony Brook University, Staten Island, NY, (2)Stony Brook University, Stony Brook, NY

15 160.015 Differences in the Late Positive Potential ERP As a Function of Valence Versus Intensity in Adults with and without ASD C. M. Keifer[1], T. Clarkson[2], E. Kang[1], A. Stoerback[1] and M. D. Lerner[1], (1)Stony Brook University, Stony Brook, NY, (2)Psychology, Stony Brook University, Stony Brook, NY

16 160.016 Distinct Brain Regions Associated with Item and Relational Encoding Impairments in ASD J. Hogeveen[1,2], J. D. Ragland[2,3], T. A. Lesh[2,3], T. A. Niendam[2,3], C. S. Carter[2,3], M. K. Krug[1,4] and M. Solomon[3,4], (1)UC Davis MIND Institute, Sacramento, CA, (2)Department of Psychiatry & Behavioral Sciences, UC Davis, Sacramento, CA, (3) Imaging Research Center, UC Davis, Sacramento, CA, (4)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

17 160.017 ERN As a Predictor of Treatment Response to Social Skills Interventions in ASD T. Clarkson, T. Rosen, C. M. Keifer and M. D. Lerner, Stony Brook University, Stony Brook, NY

18 160.018 Early Childhood Longitudinal EEG Analysis to Investigate Neural Correlates of Language in Children at Risk for Autism C. L. Wilkinson[1], A. R. Levin[2], H. M. O'Leary[2], H. Tager-Flusberg[3] and C. A. Nelson[4], (1)Developmental Medicine, Boston Children's Hospital, Boston, MA, (2)Neurology, Boston Children's Hospital, Boston, MA, (3) Psychological and Brain Sciences, Boston University, Boston, MA, (4) Boston Children's Hospital, Boston, MA

19 160.019 Electrophysiological Markers of a Potential Excitatory:Inhibitory Imbalance in Children with Autism Spectrum Disorder L. C. Shuffrey[1,2,3], H. L. Green[2], J. Veenstra-Vander Weele[3,4] and K. Froud[2], (1)New York State Psychiatric Institute / Columbia University, New York, NY, (2)Biobehavioral Sciences, Teachers College, Columbia University, New York, NY, (3)Center for Autism and the Developing Brain, White Plains, NY, (4)Psychiatry, New York State Psychiatric Institute / Columbia University, New York, NY

20 160.020 Exclusion Bias in ASD fMRI Studies: The Effect of Participant Anxiety on Scan Motion Artifact M. G. Pecukonis, L. C. Anderson, E. Sadikova and E. Redcay, Department of Psychology, University of Maryland, College Park, MD

21 160.021 Executive Function in the Autism and Schizophrenia Spectrums S. Hampton, R. C. M. Philip, E. C. Johnstone, S. M. Lawrie and A. C. Stanfield, University of Edinburgh, Edinburgh, UNITED KINGDOM

22 160.022 Exploring the Potential of Oxytocin for Enhancing Interpersonal Motor Resonance upon Direct Eye Gaze: A Transcranial Magnetic Stimulation Study K. Alaerts[1], S. Brams[1] and J. Prinsen[2], (1) University of Leuven - KU Leuven, Leuven, Belgium, (2)Rehabilitation Sciences, KU Leuven, Leuven, BELGIUM

23 160.023 Frontal Asymmetry and Reward-Based Decision Making in Children with High Functioning Autism Spectrum Disorder R. Gilbert, . M. Zhou, J. Donehey, J. Buirkle and S. Faja, Boston Children's Hospital, Boston, MA

24 160.024 Gaze Preference and Underlying Brain Responses to Dynamic Eye Movement in Individuals with ASD Across Development T. C. Day[1], B. Lewis[1], A. Naples[2], K. A. McNaughton[1], S. A. A. Chang[1], M. J. Rolison[1], K. Ellison[1], J. Wolf[1], E. Jarzabek[1], S. M. Malak[1], J. A. Trapani[1], K. Stinson[1], J. H. Foss-Feig[3,4] and J. McPartland[1], (1) Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, (4)Psychiatry, Seaver Autism Center, Icahn School of Medicine at Mount Sinai Hospital, New York, NY

25 160.025 Impaired Categorical Perception of Lexical Tones in Chinese Children with Autism: An Event-Related Potential Study X. Wang[1], Y. Zhang[2], Y. Fan[3], D. Huang[3], H. C. Chen[4] and S. Wang[1,5,6], (1)School of Psychology, South China Normal University, Guangzhou, China, (2)Department of Speech-Language-Hearing Science, University of Minnesota, Minneapolis, MN, (3)Guangzhou Rehabilitation & Research Center for Children with ASD(Guangzhou Cana School), Guangzhou, CHINA, (4)Chinese University of Hong Kong, Hong Kong, Hong Kong, (5)Guangdong Provincial Key Laboratory of Mental Health and Cognitive Science, Guanghzou, China, (6)Center for Studies of Psychological Application, Guanghzou, China

26 160.026 Impaired Frontal Processing in 3- to 5-Year-Old Children with Autism and a Developmental Language Delay during a Mismatch Negativity Paradigm. Y. Yoshimura, M. Kikuchi, C. Hasegawa, H. Hiraishi, S. Kitagawa, H. Kumazaki, T. Ikeda and Y. Minabe, Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan

27 160.027 Implicit Facial Emotion Processing Abilities in Children with ASD S. Van der Donck[1,2], S. Vettori[1,2], M. Dzhelyova[3], J. Steyaert[1,2], B. Rossion[3] and B. Boets[1,2], (1)Centre for Developmental Psychiatry, KU Leuven, Leuven, Belgium, (2)Leuven Autism Research Consortium (LAuRes), KU Leuven, Leuven, Belgium, (3)Psychological Sciences Research Institute and Institute of Neuroscience, UCL, Louvain-la-neuve, Belgium

28 160.028 Influence of Autistic Traits and Social Anxiety on Gaze Patterns to Faces and Associated Neural Response S. M. Malak[1], S. A. A. Chang[2], J. A. Trapani[3], K. Stinson[4], J. McPartland[3] and A. Naples[5], (1)Yale School of Medicine, New Haven, CT, (2)Yale University, New Haven, CT, (3)Child Study Center, Yale School of Medicine, New Haven, CT, (4)Yale University- Child Study Center, Milford, CT, (5)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

29 160.029 Interactive Social Neuroscience to Assess Resting State Brain Activity in the Broad Autism Phenotype M. J. Rolison[1], A. Naples[2], H. Rutherford[1] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

30 160.030 Modulation of Brain Activation and Serotonin during Sustained Attention in Autism Using Tianeptine R. H. Wichers[1,2], J. L. Findon[1,2], A. Jelsma[1,2], V. Giampietro[3], D. Robertson[4], C. M. Murphy[5,6], G. M. McAlonan[2,5], K. Rubia[7], C. Ecker[8], E. Daly[4,5] and D. G. Murphy[2,5], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)FANS, The Sackler Institute for Translational Neurodevelopmental Sciences, IoPPN, King's College London, London, United Kingdom, London, United Kingdom, (3) Department of Neuroimaging, The Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (4) Sackler Institute for Translational Neurodevelopment and Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (6)Behavioural Genetics Clinic, Adult Autism Service, Behavioural and Developmental Psychiatry Clinical Academic Group, South London and Maudsley Foundation NHS Trust, London, United Kingdom, (7)Department of Child & Adolescent Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (8)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychiatry, Goethe-University Frankfurt am Main, Frankfurt, Germany

31 160.031 Motor Cortex Inhibition in Youth with ASD and Co-Morbid ADHD a Marker for Clinical Executive Functioning L. N. Mooney[1], D. L. Gilbert[2], M. P. Hong[1], J. L. Guilfoyle[1], S. W. Wu[3], C. A. Erickson[4], L. K. Wink[4] and E. Pedapati[5], (1)Psychiatry, Cincinnati Childrens Hospital, Cincinnati, OH, (2)Neurology, Cincinnati Childrens Hospital, Cincinnati, OH, (3)Cincinnati Childrens Hospital, Cincinnati, OH, (4)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (5) INSAR Cincinnati Children's Hospital Medical Center, Cincinnati, OH

32 160.032 Movement during MR Scanning in Children with Autism Spectrum Disorder N. A. Puts[1,2], M. Mikkelsen[1,2], S. H. Mostofsky[3] and R. A. Edden[1,2], (1)Radiology and Radiological Science, Johns Hopkins University, Baltimore, MD, (2)FM Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Institute, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD

33 160.033 Neural Correlates of Hearing One's Own Name and Others' Names in Adults with Autism Spectrum Disorder A. Nijhof, J. Goris, M. Brass and J. R. Wiersema, Ghent University, Ghent, Belgium

34 160.034 Neural Correlates of the Pupillary Light Reflex in the Broader Autism Phenotype S. A. A. Chang[1], F. Shic[2], B. Li[3], S. M. Malak[1], K. Stinson[1], J. A. Trapani[1], J. McPartland[1] and A. Naples[4], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Seattle Children's Research Institute, Seattle, WA, (3)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA, (4)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

35 160.035 Neural Fingerprints of Behavioural Rigidity in Autism E. Poljac[1,2], V. Hoofs[3], M. M. Princen[3], R. Haartsen[4], R. van der Cruijsen[5] and E. Poljac[2], (1)University of Freiburg, Freiburg im Breisgau, Germany, (2) Radboud University, Nijmegen, Netherlands, (3)Ghent University, Ghent, Belgium, (4)Birkbeck, University of London, London, United Kingdom, (5) Leiden University, Leiden, Netherlands

36 160.036 Neural Signature of Dynamic Facial Processing in Children with ASD R. Ma[1], C. M. Hudac[2], A. Kresse[3], A. Naples[4], S. Faja[5], J. McPartland[6] and R. Bernier[7], (1)Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, MA, (2)Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA, (3)Seattle Children's Research Institute, Seattle, WA, (4)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (5)Boston Children's Hospital, Boston, MA, (6)Child Study Center, Yale School of Medicine, New Haven, CT, (7)University of Washington Autism Center, Seattle, WA

37 160.037 Probing Visual Correlates of Excitatory/Inhibitory Imbalance Using EEG: A Transdiagnostic Study in ASD and Schizophrenia J. H. Foss-Feig[1,2], M. J. Rolison[3], E. Isenstein[4], . Naples[5], K. A. McNaughton[3], T. C. Day[3], B. Adkinson[6], C. Schleifer[7], N. Santamauro[7], J. Krystal[7], V. Srihari[7], A. Anticevic[7] and J. McPartland[3], (1)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Seaver Autism Center, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Child Study Center, Yale School of Medicine, New Haven, CT, (4)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York City, NY, (5)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (6)Yale University School of Medicine, Bellevue, OH, (7)Yale University School of Medicine, New Haven, CT

38 160.038 Reduced Frontal P1 Amplitude Differentiation As a Neural Signature of Speech Sound Disorder in ASD A. B. Arnett[1], C. M. Hudac[1], T. DesChamps[2], R. Ma[3], B. E. Cairney[4], A. S. Wallace[4], J. Gerdts[4] and R. Bernier[4], (1)Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, MA, (4)University of Washington Autism Center, Seattle, WA

39 160.039 Residual Relationships Between Motion and Bold Activity Remain after Preprocessing L. Byrge and D. P. Kennedy, Psychological and Brain Sciences, Indiana University, Bloomington, IN

40 160.040 Resting State EEG and Sensory Responsivity in ASD and Schizophrenia S. Hasselmo[1], S. M. Malak[2], J. A. Trapani[2], M. J. Rolison[2], K. A. McNaughton[3], T. C. Day[2], S. A. A. Chang[4], K. Ellison[2], B. Lewis[5], E. Jarzabek[2], J. Wolf[3], J. H. Foss-Feig[6], V. Srihari[7], A. Anticevic[7], A. Naples[8] and J. McPartland[2], (1)Child Study Center, Yale University, New Haven, CT, (2)Child Study Center, Yale School of Medicine, New Haven, CT, (3)Yale Child Study Center, New Haven, CT, (4)Yale University, New Haven, CT, (5)Yale School of Medicine, Darien, CT, (6)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, (7)Yale University School of Medicine, New Haven, CT, (8)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

41 160.041 Resting-State Theta Oscillations Predict Executive Functioning Deficits in Children with Autism Spectrum Disorder A. M. Zhou[1], T. Clarkson[2], A. R. Levin[3] and S. Faja[1], (1)Boston Children's Hospital, Boston, MA, (2)Psychology, Stony Brook University, Stony Brook, NY, (3)Neurology, Boston Children's Hospital, Boston, MA

42 160.042 Sensory Characteristics and Autistic Traits Influence Neural Responsivity to Predictable Versus Unpredictable Visual Information J. A. Trapani[1], S. A. A. Chang[2], S. M. Malak[1], K. Stinson[3], K. Ellison[1], J. McPartland[1] and A. Naples[4], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale University, New Haven, CT, (3)Yale University- Child Study Center, Milford, CT, (4)Yale Child Study Center, Yale University School of Medicine, New Haven, CT

43 160.043 Sex Differences in Amygdala Resting State Connectivity in Young Children with Autism Spectrum Disorder J. K. Lee[1], B. Winder-Patel[2], M. Solomon[3], S. Ozonoff[1], D. G. Amaral[3] and C. W. Nordahl[3], (1) Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (2)MIND Institute, University of California, Davis, Sacramento, CA, (3)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

44 160.044 Sex Differences in the Neural Processing of Interactive Eye Contact in Individuals with Autism Spectrum Disorder K. A. McNaughton[1], B. Lewis[1], A. Naples[2], T. C. Day[1], S. A. A. Chang[1], M. J. Rolison[1], K. Ellison[1], E. Jarzabek[1], J. Wolf[1], S. M. Malak[1], J. A. Trapani[1], K. Stinson[1], J. H. Foss-Feig[3] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY

45 160.045 Striatal and Thalamic Metabolite Levels and Restricted and Repetitive Behaviors in Twins with Autism Spectrum Disorder J. P. Hegarty II[1], M. Gu[2], D. Spielman[2], S. Cleveland[1], J. Hallmayer[1], L. Lazzeroni[1], M. Raman[1], T. W. Frazier[3], J. M. Phillips[1], A. L. Reiss[1] and A. Y. Hardan[1], (1)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)Radiology, Stanford University, Stanford, CA, (3) Cleveland Clinic Center for Autism, Cleveland, OH

46 160.046 The Neural Mechanisms of Gaze-Based Social Interaction in Adults with High-Functioning Autism: Investigating the Effects of Predictability H. Parpart, M. L. Brandi and L. Schilbach, Independent Max Planck Research Group for Social Neuroscience, Max Planck Institute of Psychiatry, Munich, Germany

47 160.047 The Relationship Between Neural Correlates of Face Processing and Social Communication in Individuals with ASD and Schizophrenia T. A. Halligan[1], A. Naples[2], J. Wolf[1], S. A. A. Chang[1], S. M. Malak[1], J. A. Trapani[1], T. C. Day[1], K. A. McNaughton[1], M. J. Rolison[1], E. Jarzabek[1], K. Ellison[1], B. Lewis[1], J. H. Foss-Feig[3], V. Srihari[4], A. Anticevic[1] and J. McPartland[1], (1)Child Study Center, Yale School of Medicine, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY, (4)Yale University School of Medicine, New Haven, CT

48 160.048 Visual Evoked Potentials As a Candidate Endophentype for Autism Spectrum Disorder J. L. George-Jones[1], J. Zweifach[2], S. M. Lurie[2], J. Norry[1], A. Durkin[1], K. Meyering[1], A. Kolevzon[3], J. D. Buxbaum[3] and P. M. Siper[1], (1)Seaver Autism Center at Mount Sinai, New York, NY, (2)Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, (3)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY

## Poster Session
161 - Cognition: Attention, Learning, Memory
5:00 PM - 6:30 PM - Golden Gate Ballroom

49 161.049 A Gaze Contingent Exploration of Social Attention in Autism Spectrum Disorder J. S. Black and M. Bindemann, School of Psychology, University of Kent, Canterbury, United Kingdom

50 161.050 An Information Theory Approach to Assessing Perceptual Expectations in Autism O. E. Parsons[1] and S. Baron-Cohen[2], (1)University of Cambridge, Cambridge, Cambridgeshire, England, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

51 161.051 Association Between Executive Functioning and Attention Deficit/Hyperactivity Disorder Symptoms in Younger Siblings of Children with Autism Spectrum Disorder. M. P. Trelles[1], C. R. Newsom[2], E. B. Lee[3], J. A. Crittendon[4], C. Burnette[5], E. Malesa[4], W. L. Stone[6], Z. Warren[3] and J. H. Foss-Feig[7], (1)Icahn School of Medicine at Mount Sinai, New York, NY, (2)Pediatrics, Vandetbilt University Medical Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Vanderbilt, Nashville, TN, (5)University of New Mexico, Albuquerque, NM, (6) Psychology, University of Washington, Seattle, WA, (7)Seaver Autism Center, Department of Psychiatry, Icahn School of Medicine at Mount Sinai Hospital, New York, NY

52 161.052 Attention Engagement in ASD J. M. Bebko[1], C. A. McMorris[2], M. Ferland[1] and A. Porthukaran[3], (1)York University, Toronto, ON, CANADA, (2)York University, Calgary, AB, CANADA, (3)York University, Toronto, ON, Canada

53 161.053 Autistic Traits and Social Anxiety As Unique Predictors of Neural Attentional Responses during Facial Emotion Identification C. L. Dickter[1], J. Burk[1] and S. Taylor[2], (1)College of William & Mary, Williamsburg, VA, (2)College of William and Mary, Glen Allen, VA

54 161.054 Behavioral Flexibility and the Effect of Various Feedback Types: A Developmental Study E. Oberwelland[1,2], J. A. Kruppa[3,4], G. R. Fink[2,5], B. Herpertz-Dahlmann[1], K. Konrad[1,2] and M. Schulte-Rüther[1,2], (1)Child and Adolescent Psychiatry, University Hospital Aachen, Aachen, Germany, (2)Institute of Neuroscience and Medicine (INM-3), Research Center Jülich, Jülich, Germany, (3)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (4)Cognitive Neuroscience, Institute of Neuroscience and Medicine (INM-3), Jülich Research Center, Jülich, Germany, (5)Neurology, University Hospital Cologne, Cologne, Germany

55 161.055 Behavioral Response Inhibition Deficits in Individuals with Autism Spectrum Disorder and Their Parents E. Bojanek[1], L. M. Schmitt[1], S. P. White[2], J. A. Sweeney[3] and M. W. Mosconi[1], (1) University of Kansas, Lawrence, KS, (2)UT Southwestern Medical Center at Dallas, Dallas, TX, (3)University of Cincinnati, Cincinnati, OH

56 161.056 Characterizing the Heterogeneity of Academic Achievement in ASD H. N. Wakeman[1], L. Chen[2], T. Iuculano[3], M. Rosenberg-Lee[4] and V. Menon[5], (1)University of Colorado - Boulder, Boulder, CO, (2)Psychiatry, Stanford School of Medicine, Palo Alto, CA, (3)Stanford University School of Medicine, Palo Alto, CA, (4)Psychiatry, Stanford University School of Medicine, Palo Alto, CA, (5)Stanford University School of Medicine, Stanford, CA

57 161.057 Comparing fNIRS-Based Cortical Activation Patterns Between Children with and without Autism, during Transitive and Intransitive Gestures M. Culotta[1], S. Trost[1], M. Hoffman[1] and A. N. Bhat[2], (1)Physical Therapy, University of Delaware, Newark, DE, (2)University of Delaware, Newark, DE

58 161.058 Comparison of Parent- and Teacher-Report of Executive Function Deficits on Adaptive Behavior Skills in Individuals with and without ASD J. L. Mussey and L. Guy, TEACCH Autism Program, University of North Carolina at Chapel Hill, Chapel Hill, NC

59 ▸ 161.059 Cultural Influence on Natural Scene Viewing in Autism: A Comparison Between Japan and the UK N. Harada[1,2], E. Pellicano[2], Y. Tojo[3], T. Hasegawa[4], H. Osanai[5] and A. Senju[1], (1)Centre for Brain and Cognitive Development, Birkbeck, University of London, London, United Kingdom, (2)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (3)Ibaraki University, Ibaraki, Japan, (4)The University of Tokyo, Tokyo, JAPAN, (5)Musashino Higashi Gakuen, Musashino-shi, JAPAN

60 161.060 Differences in Sleep Related Learning in Children with ASD and Williams Syndrome J. Hayton[1], M. M. Chadiarakos[1] and D. Dimitriou[2], (1)Lifespan Learning and Sleep Lab, Institute of Education UCL, London, United Kingdom, (2)UCL, Institute of Education, London, England, United Kingdom

61 161.061 Differing Perspectives: Examining Reports of Executive Function in Children with ASD & ADHD S. Seese[1], J. Safer-Lichtenstein[2], A. D. Verbalis[1], C. Luong-Tran[3], K. Hardy[1], M. Wolff[4], K. Tiplady[5], M. F. Skapek[4], B. J. Anthony[2], L. Kenworthy[1] and L. G. Anthony[1], (1) Children's National Health System, Washington, DC, (2)Center for Child and Human Development, Georgetown University, Washington, DC, (3) Children's National Medical System, Washington, DC, (4)Children's National Health System, Rockville, MD, (5)University of Florida, Ashburn, VA

62 ▸ 161.062 Dimensional Autistic Traits Predict Susceptibility to False Memory: Sex Differences in Source Monitoring and Gist Construction J. M. Valla[1] and M. K. Belmonte[2], (1)National Brain Research Centre, Manesar, India, (2)Com DEALL Trust, Bangalore, INDIA

63 161.063 Distinguishing Between Implicit and Explicit Measures of Metacognition in ASD T. Nicholson[1], C. S. Grainger[2], S. Lind[3], P. Carruthers[4] and D. M. Williams[5], (1)University of Kent, Canterbury, England, United Kingdom, (2)School of Psychology, University of Stirling, Stirling, UNITED KINGDOM, (3)Durham University, Durham City, County Durham, UNITED KINGDOM, (4)University of Maryland, Washington, MD, (5)School of Psychology, University of Kent, Canterbury, United Kingdom

64 161.064 Early Learning Processes in Autism and Williams Syndrome: Commonalities and Differences in Relation to Cognitive and Adaptive Functioning P. A. Fanning[1], G. Vivanti[2], C. Dissanayake[3] and D. R. Hocking[4], (1)School of Psychology and Public Health, La Trobe University, Melbourne, Australia, (2)AJ Drexel Autism Institute, Philadelphia, PA, (3)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (4) Psychology & Counselling, Developmental Neuromotor & Cognition Lab, La Trobe University, Melbourne, AUSTRALIA

65 161.065 Emotional False Memories in Children with Autism Spectrum Disorder E. J. Adler[1], C. Mirandola[2], M. K. Krug[1], K. Argente[1], J. Farren[1], C. W. Nordahl[1], D. G. Amaral[1], S. Ghetti[3] and M. Solomon[1], (1) Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (2)Department of General Psychology, University of Padova, Italy, Padova, Italy, (3)Department of Psychology, University of California-Davis, Davis, CA

66 161.066 Endogenous Visual Orienting with and without Saccades in Autism Spectrum Disorder: An Eye-Tracking Study S. J. Fleming[1], O. Landry[1], K. A. Johnson[2], S. G. Crewther[3] and P. A. Chouinard[1], (1) La Trobe University, Bendigo, Australia, (2)Psychological Sciences, University of Melbourne, Victoria, Australia, (3)School of Psychology and Public Health, La Trobe University, Melbourne, Australia

67 161.067 Error Types in Synchrony Judgements of Audiovisual Stimuli in Children with Autism Spectrum Disorders M. Ferland[1], J. M. Bebko[2], M. Segers[2], B. L. Ncube[3] and R. A. Stevenson[4], (1)343 St Clair Ave. W apt. B, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, CANADA, (3)York University, York, ON, CANADA, (4)Psychology, University of Western Ontario, London, ON, CANADA

68 161.068 Examining the Mathematical Abilities of Children and Adolescents with Autism Spectrum Disorders: A Meta-Analysis H. M. Brown[1], N. Ansell[1], A. Altani[1] and J. MacCormack[2], (1)Educational Psychology, University of Alberta, Edmonton, AB, Canada, (2)Educational Psychology and Inclusion, University of Lethbridge, Lethbridge, AB, Canada

69 161.069 Executive Function: Cognition and Behaviour in Adults with Autism A. J. Russell[1], K. Johnston[2], K. Murray[3], D. Spain[4] and I. Walker[5], (1)University of Bath, Bath, United Kingdom, (2)Psychology, Kings College London/South London & Maudsley NHS Trust, London, United Kingdom, (3)King's College London, London, UNITED KINGDOM, (4)King's College London, Institute of Psychiatry,, London, UNITED KINGDOM, (5)Psychology, University of Bath, Bath, United Kingdom

70 161.070 Eye Avoidance in Young Children with Autism Spectrum Disorder When Scanning Emotional Faces Q. Wang[1], L. Lu[1], X. Zou[2] and L. Yi[1], (1)Peking University, Beijing, China, (2)The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China

71 161.071 Eye Tracking on an Unmodified Ipad for Visual Attention of Children with and without ASD: A Feasibility Test Q. Wang[1], C. Foster[2], B. Li[3], J. Snider[2], M. Utheim[4], R. Oien[5], P. E. Ventola[2] and F. Shic[6], (1) Yale University School of Medicine, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (4)Superplus., Tromso, Norway, (5) Psychology, The Arctic University of Norway, Tromsø, Norway, (6)Seattle Children's Research Institute, Seattle, WA

72 161.072 Frontal Midline Theta Activity Explains Differences in Reaction Time Variability Between ASD and ADHD G. McLoughlin[1,2], J. A. Palmer[3], B. Azadi[4], K. L. Ashwood[5], P. Asherson[1], P. F. Bolton[4] and C. Tye[4], (1)Social, Genetic & Developmental Psychiatry, King's College London, London, United Kingdom, (2)King's College London, London, United Kingdom, (3)Department of Information and Communications Engineering, Tokyo Institute of Technology, Yokohama, Japan, (4)Child & Adolescent Psychiatry, King's College London, London, United Kingdom, (5)Forensic & Neurodevelopmental Disorders, King's College London, London, UNITED KINGDOM

73 161.073 Gaze Abnormality Can Distinguish Between Autism Spectrum Disorder and Typically Developing Children through Screening in 5-Year-Old Children By a Double Blind Study in a Japanese Community Based Population M. Saito[1], M. Adachi[2], S. Yoshida[3], S. Yasuda[4], M. Kuribayashi[5], Y. Sakamoto[6], K. Nakamura[7] and N. Takayanagi[2], (1) Graduate School of Medicine, Hirosaki University, Hirosaki, Japan, Hirosaki, Japan, (2)Hirosaki University, Hirosaki, JAPAN, (3)Research Centre for Child Mental Developmenta Hirosaki University Graduate School of Medicine, Hirosaki, JAPAN, (4)Research Center for Child Mental Development Graduate School of Medicine, Hirosaki University, Hirosaki, JAPAN, (5)Hirosaki University Research Center for Child Mental Development, Hirosaki, Aomori, JAPAN, (6)Graduate School of Medicine, Hirosaki University, Hirosaki, JAPAN, Hirosaki, Japan, (7)Hirosaki University, Aomori-Ken, JAPAN

74 161.074 Hot and Cool Executive Function and Theory of Mind in Children and Adolescents with Autism Spectrum Disorder: Cross Sectional Developmental Trajectories E. C. Kouklari, S. Tsermentseli and C. Monks, Psychology, Social Work, and Counselling, University of Greenwich, London, United Kingdom

75 161.075 Impulse Control to Specific Interests in Children with Autism Versus Typical Development M. R. Silverman[1], D. J. Bos[2], E. L. Ajodan[3], A. Hamo[4], C. K. Carberry[5] and R. M. Jones[6], (1)Sackler Institute for Developmental Psychobiology of Weill Cornell Medical College, New York, NY, (2)Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, NETHERLANDS, (3)CADB, Great Neck, NY, (4)Weill Cornell Medicine, New York, NY, (5)Educational Psychology, University of Texas at Austin, New York, NY, (6)Weill Cornell Medical College, White Plains, NY

76 161.076 Increased Access to Information, but Not Increased Feedback, Enhances Category Learning in Autism A. M. Nader[1], D. Tullo[2], V. Bouchard[3], J. Degré-Pelletier[4], E. Danis[1], A. Bertone[2], M. Dawson[5] and I. Soulières[3], (1)University of Quebec in Montreal, Montreal, QC, Canada, (2)McGill University, Montreal, QC, Canada, (3)University of Quebec in Montreal, Montréal, QC, Canada, (4)University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada, (5)Centre d'excellence en Troubles envahissants du développement de, Montréal, QC, CANADA

77 161.077 Inhibitory Control Deficits in ASD Reflect Failures to Strategically Delay Behavioral Responses L. M. Schmitt[1], M. E. Ragozzino[2], E. H. Cook[3], S. P. White[4], J. A. Sweeney[5] and M. W. Mosconi[1], (1)University of Kansas, Lawrence, KS, (2)University of Illinois at Chicago, Chicago, IL, (3)Psychiatry, University of Illinos at Chicago, Chicago, IL, (4)UT Southwestern Medical Center at Dallas, Dallas, TX, (5)University of Cincinnati, Cincinnati, OH

78 161.078 Internal Noise and Global Motion Pooling and Their Relationship with Autistic Traits in Typically Developed Adults. E. Orchard and J. van Boxtel, Monash Biomedical Imaging, Monash University, Melbourne, Australia

79 161.079 Intuitive and Reflective Reasoning in Autism Spectrum Disorder M. Brosnan[1], M. Lewton[2] and C. Ashwin[1], (1)University of Bath, Bath, UNITED KINGDOM, (2)University of Bath, Bath, United Kingdom

80 161.080 Investigating the Predictive Impairment in Autism Hypothesis. W. Jamal[1], N. Hadjikhani[2], J. A. Christodoulou[3], A. Cardinaux[1], L. Vogelsang[4], M. M. Kjelgaard[5] and P. Sinha[1], (1)Massachusetts Institute of Technology, Cambridge, MA, (2)Martinos Center for Biomedical Imaging, Charlestown, MA, (3)Dept. of Communication Sciences and Disorders, MGH Institute of Health Professions, Boston, MA, (4)University of Osnabrück, Osnabrück, Germany, (5)MGH IHP, Arlington, MA

81 161.081 Looking Beyond Looking Time: A Systematic Review of Eye-Tracking Measures of Social Attention in ASD M. Chita-Tegmark, Boston University, Winchester, MA

82 161.082 Memory Deficits for Faces and Non-Social Stimuli in Children with ASD Y. B. Choi, L. Chen, S. Qin and V. Menon, Stanford University School of Medicine, Stanford, CA

83 161.083 Memory Profiles Between Individuals with ASD with High or Low Cognitive Abilities: A Cautionary Tale about Generalizing Across the Autism Spectrum. N. Shea[1], T. Flanagan[2], J. A. Burack[3] and N. Russo[1], (1)Syracuse University, Syracuse, NY, (2)Counselling and Educational Psychology, McGill University, Montreal, QC, Canada, (3) McGill University, Montreal, QC, CANADA

84 161.084 Memory for Items, Contexts and Relations in Adults with Autism Spectrum Disorder M. Ring, S. B. Gaigg and D. M. Bowler, Psychology, City, University of London, London, United Kingdom

85 161.085 Meta-Analysis of Eye Gaze Differences to Social and Non-Social Information Between Individuals with and without Autism E. E. Zetzer[1], E. W. Klingemier[1], A. Y. Hardan[2], M. S. Strauss[3], C. Eng[4], E. A. Youngstrom[5] and T. W. Frazier[1], (1)Cleveland Clinic Center for Autism, Cleveland, OH, (2)Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (3)University of Pittsburgh, Pittsburgh, PA, (4)Genomic Medicine Institute, Cleveland Clinic, Celeveland, OH, (5) University of North Carolina, Chapel Hill, NC

86 161.086 Metacognition, Mindreading, and the Hypercorrection Effect in ASD D. M. Williams[1], C. S. Grainger[2], T. Nicholson[3] and Z. Bergstrom[3], (1)School of Psychology, University of Kent, Canterbury, United Kingdom, (2)School of Psychology, University of Stirling, Stirling, UNITED KINGDOM, (3)University of Kent, Canterbury, United Kingdom

87 161.087 Minecraft Working Memory Task: Considering Content in the Working Memory Abilities in School-Age, Higher-Functioning Children with Autism Spectrum Disorders M. C. Zajic[1], N. S. McIntyre[2], L. E. Swain-Lerro[3], J. McCauley[4], H. K. Schiltz[5], T. Oswald[6] and P. C. Mundy[7], (1)University of California at Davis MIND Institute, Davis, CA, (2)University of California at Davis, Davis, CA, (3)UC Davis, Santa Rosa, CA, (4)UC Davis MIND Institute, Sacramento, CA, (5) Marquette University, Milwaukee, WI, (6)University of California at Davis MIND Institute, Sacramento, CA, (7)University of California at Davis, Sacramento, CA

88 161.088 Predicting Math Achievement from Attentional Ability and Perceptual Reasoning in Students with Autism Spectrum Disorder E. L. Clark, D. Tullo and A. Bertone, McGill University, Montreal, QC, Canada

89 161.089 Preference for Nonsocial Realistic Movement in Children with ASD C. McCormick[1,2], H. Tokadjian[1] and S. J. Sheinkopf[1,3], (1)Brown Center for the Study of Children at Risk, Women and Infants Hospital, Providence, RI, (2)Department of Psychiatry and Human Behavior, Brown University, Providence, RI, (3)Department of Psychiatry and Human Behavior, The Warren Alpert Medical School of Brown University, Providence, RI

90 161.090 Preliminary Findings in Adolescents with ASD: Pupil Diameter As a Proxy for Cognitive Load during Passive Viewing of Facial Expression Stimuli G. T. Lynch[1], S. M. James[2], M. VanDam[1] and R. Hyslop[3], (1)Dept. of Speech and Hearing Sciences, Elson S. Floyd College of Medicine, Washington State University, Spokane, WA, (2)Sleep and Performance Research Center, Elson S. Floyd College of Medicine, Washington State University, Spokane, WA, (3)Dept. of Speech and Hearing Sciences, Elson S. Floyd College of Medicine, Spokane, WA

91 ▸ 161.091 Profiles of Academic Achievement in Children with Autism Spectrum Disorders with Monolingual and Bilingual Language Experience S. B. Vanegas, K. Acharya and S. Magana, Disability and Human Development, University of Illinois at Chicago, Chicago, IL

92 161.092 Pupil Adaptation Corresponds to Quantitative Measures of Autism Traits in Children A. S. DiCriscio[1] and V. Troiani[2], (1)Geisinger ADMI, Lewisburg, PA, (2)Geisinger-Bucknell Autism & Developmental Medicine Institute, Lewisburg, PA

93 161.093 Reaching the Other Half: Executive Function Deficits in a Community Based Sample A. D. Verbalis[1], C. K. Kraper[1], A. B. Ratto[2], S. Seese[1], J. L. Martucci[1], J. Safer-Lichtenstein[3], K. Tiplady[1,4], B. J. Anthony[3], L. G. Anthony[1], L. Kenworthy[1] and K. Hardy[1], (1)Children's National Health System, Washington, DC, (2)Children's National Medical Center, Washington, DC, (3)Center for Child and Human Development, Georgetown University, Washington, DC, (4)University of Florida, Ashburn, VA

94 161.094 Retest Reliability of the N2 Event-Related Potential Component and Conflict Processing Behavioral Task in Children with High Functioning ASD A. Vaidyanathan[1], S. Faja[2] and T. Clarkson[3], (1) Developmental Medicine, Boston Children's Hospital, Boston, MA, (2) Boston Children's Hospital, Boston, MA, (3)Psychology, Stony Brook University, Stony Brook, NY

95 161.095 Sex Differences in Autistic Profiles in Preschool Children with Autism Spectrum Disorders. H. Kumazaki[1], M. Kikuchi[1], Y. Yoshimura[1], C. Hasegawa[1], S. Kitagawa[1], T. Hirosawa[2], T. Ikeda[1], D. Saito[1] and Y. MInabe[1], (1)Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan, (2)Research Center for Child Mental Development, Department of Psychiatry and Neurobiology, Graduate School of Medical Science, Kanazawa University, Kanazawa, Kanazawa, JAPAN

96 161.096 Sex-Differences in Self-Reported Executive Functioning Problems in Youth with Autism Spectrum Disorder M. A. Collins[1], J. B. Crutcher[1], A. C. Armour[2], C. D. Riddell[1], Y. Granader[2], G. Wallace[1,3], A. Martin[1] and L. Kenworthy[1,3,4], (1)National Institutes of Health- National Institute of Mental Health, Bethesda, MD, (2)Children's National Medical Center, Washington, DC, (3)The George Washington University, Washington, DC, (4)Children's National Health System, Washington, DC

97 161.097 Sleep Related Behavioural and Cognitive Functioning M. M. Chadiarakos[1], G. Pavlopoulou[2] and D. Dimitriou[1], (1)Lifespan Learning and Sleep Lab, Institute of Education UCL, London, United Kingdom, (2)Lifespan Learning and Sleep Lab, UCL, Institute of Education, London, UNITED KINGDOM

98 161.098 Stratifying Working Memory Ability in ASD J. Ahmad[1], D. V. Crawley[2], H. L. Hayward[3], A. San Jose Caceres[4], B. Oakley[4], . Charman[1], J. E. Tillmann[1], J. K. Buitelaar[5], D. G. Murphy[6], G. Dumas[7] and E. Loth[8], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3) Forensic and Neurodevelopmental Sciences, Institute of Psychiatry Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (6)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7) Institut Pasteur, Paris, France, (8)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

99 161.099 Susceptibility to Optical Illusions in Autism Spectrum Disorder Depends on Illusion Characteristics K. Royals[1], O. Landry[1], A. S. Millard[1], I. Sperandio[2], S. G. Crewther[3] and P. A. Chouinard[1], (1)La Trobe University, Bendigo, Australia, (2)University of East Anglia, Norwich, United Kingdom, (3)School of Psychology and Public Health, La Trobe University, Melbourne, Australia

100 161.100 The Contribution of Visual Attention to Performance on Tests of Nonverbal Ability in Adolescents with Intellectual Disability with and without Comorbid Autism Spectrum Disorder C. Mungkhetklang[1], S. G. Crewther[2] and E. L. Bavin[3], (1)La Trobe University, Bundoora, Australia, (2)School of Psychology and Public Health, La Trobe University, Melbourne, Australia, (3)La Trobe university, Bundoora, Australia

101 161.101 The Impact of Lures on Semantic and Visuospatial Analogical Reasoning in Autistic Children E. Danis, A. M. Nader, V. Bouchard and I. Soulières, University of Quebec in Montreal, Montréal, QC, Canada

102 161.102 The Relation Between Visual Disengagement and Autistic Traits: An Eye-Tracking Study of 410 Individuals M. Siqueiros Sanchez[1], D. P. Kennedy[2], S. Bolte[1], B. M. D'Onofrio[3], P. Lichtenstein[4] and T. Falck-Ytter[1,5], (1)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (2)Psychological and Brain Sciences, Indiana University, Bloomington, IN, (3)Department of Psychological and Brain Sciences, Indiana University, Bloomington, IN, (4)Department of Medical Epidemiology and Biostatistics (MEB), Karolinska Institutet, Stockholm, Sweden, (5)Dept of Psychology, Uppsala University, Uppsala, Sweden

103 161.103 Too Little Strategy, Too Much Guessing: Problem-Solving in High-Functioning Adolescents with ASD J. S. Beck[1], M. South[2] and M. Solomon[3], (1)Psychology, Brigham Young University, Provo, UT, (2)Psychology and Neuroscience, Brigham Young University, Provo, UT, (3)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA

104 161.104 Untapped Mathematical Learning Capacity in Children with Autism Spectrum Disorders J. B. Kang[1], M. Rosenberg-Lee[1,2], H. N. Wakeman[1,3], L. Chen[1] and V. Menon[1], (1)Psychiatry, Stanford University School of Medicine, Palo Alto, CA, (2)Psychology Department, Rutgers University, Newark, NJ, (3)University of Colorado - Boulder, Boulder, CO

105 161.105 Using a 3-D Multiple Object Tracking (MOT) Task to Assess Attentional Abilities in Autism B. Levy[1,2], D. Tullo[1,2], L. Mottron, M.D.[3], J. Faubert[4] and A. Bertone[1,2], (1)McGill University, Montreal, QC, Canada, (2)Perceptual Neuroscience Lab (PNLab) for Autism and Development, Montreal, QC, Canada, (3)University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada, (4)Laboratoire de Psychophysique et de Perception Visuelle, Université de Montréal, Montréal, QC, Canada

106 161.106 Visual Detection and Decoding of Aerial Photographs in Adults with ASD Y. S. Bonneh[1], H. Marciano[2], K. Ruth[3] and E. Gal[4], (1) Optometry and Vision Science, Bar-Ilan University, Ramat Gan, ISRAEL, (2)Institute of Information Processing and Decision Making, University of Haifa, Haifa, Israel, (3)Department of Psychology and Institute of Information Processing and Decision Making, University of Haifa, Haifa, Israel, (4)University of Haifa, University of Haifa, ISRAEL

107 161.107 Visual Illusion Susceptibility in Children with Autism Spectrum Disorder: Local Versus Global Processing K. Wiseman[1], J. Gillis[1], R. G. Romanczyk[1], R. E. Mattson[1] and M. sevlever[2], (1)State University of New York at Binghamton, Binghamton, NY, (2)auburn university, Auburn, AL

108 161.108 Visual Working Memory and Filtering Ability in Individuals with Autism Spectrum Disorder K. E. Bodner[1], N. Cowan[2] and S. E. Christ[2], (1)Thompson Center for Autism & Neurodevelopmental Disorders, University of Missouri, Columbia, MO, (2)Psychological Sciences, University of Missouri, Columbia, MO

109 161.109 'Sticky' Attention in Children and Youth with Autism Spectrum Disorder: General Deficit or Task Dependent? C. A. McMorris[1] and J. M. Bebko[2], (1)Werklund School of Education, University of Calgary, Calgary, AB, Canada, (2)York University, Toronto, ON, CANADA

## Poster Session
162 - Interventions - Pharmacologic
5:00 PM - 6:30 PM - Golden Gate Ballroom

110 162.110 A Pilot Dose Finding Study of Pioglitazone in Children with ASD L. Capano[1], J. A. Brian[1], D. Mankad[1,2], S. Smile[1], L. Genore[1], R. Hastie Adams[1], A. Iaboni[1], D. Odrobina[1], A. Dupuis[3] and E. Anagnostou[2], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)University of Toronto, Toronto, ON, Canada, (3)The Hospital for Sick Children, Toronto, ON, Canada

111 162.111 Changes in Sleep Habits during Drug Treatment of ASD R. K. Abramson[1], A. V. Hall[2], C. A. Stuck[2], S. Ravan[3], J. Charles[4], J. Williams[5] and L. DeVane[4], (1)University of South Carolina School of Medicine, Columbia, SC, (2)Neuropsychiatry and Behavioral Sciences, University of South Carolina School of Medicine, Columbia, SC, (3) University of South Carolina, School of Medicine, Columbia, SC, (4) Medical University of South Carolina, Charleston, SC, (5)Developmental-Behavioral Pediatrics, University of South Carolinla School of Medicine Greenville, Greenville, SC

112 162.112 Effectiveness of Propranolol for Treating Anxiety and Aggression in Children and Adolescents with Autism Spectrum Disorder I. K. Sagar-Ouriaghli[1], K. Lievesley[1], J. Tarver[1], F. Fiori[2] and P. Santosh[1,2,3], (1)Institute of Psychiatry, Psychology & Neurosciences, King's College London, London, United Kingdom, (2)Centre for Interventional Paediatric Psychopharmacology and Rare Diseases; Child and Adolescent Mental Health Services, South London and Maudsley NHS Foundation Trust, London, United Kingdom, (3)HealthTracker Ltd, Gillingham, United Kingdom

113 162.113 Immune Response to Pregnenolone Treatment in Adults with Autism Spectrum Disorder – Preliminary Analysis from an Open-Label Study L. K. Fung[1], J. Siebert[2] and A. Y. Hardan[1], (1) Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, (2)CytoAnalytics, Denver, CO

114 162.114 Improvement of Receptive Language but Behavioral Worsening with Combined Donepezil and Choline Treatment L. Gabis[1], R. Ben-Hur Chayu[2] and D. Ben Shalom[3], (1)Sheba Medical Center, Rehovot, Israel, (2)Child Development, Sheba Medical Center and Ben Gurion University, Tel Hashomer, Israel, (3)Linguistics and Cognitive studies, Ben Gurion University, Beer Sheva, Israel

115 162.115 Metformin for Medication-Associated Weight Gain in Youth with Autism Spectrum Disorder L. K. Wink[1], K. C. Dominick[2], E. Pedapati[3], E. Fox[1], C. Buck[1], R. Adams[1], L. McClellan[1] and C. A. Erickson[1], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)Division of Psychiatry, Cincinnati Children's Hospital Medical Center, CINCINNATI, OH, (3)INSAR Cincinnati Children's Hospital Medical Center, Anderson, OH

116 162.116 Microbiota Transfer Improves Gastrointestinal and Autism Symptoms: An OPEN Label Study D. W. Kang[1], J. B. Adams[1], A. C. Gregory[2], T. Borody[3], L. Chittick[4], A. Fasano[5], A. Khoruts[6], E. Geis[1], J. Maldonado[1], S. McDonough-Means[7], E. Pollard[1], S. Roux[4], M. J. Sadowsky[6], K. Schwarzberg Lipson[8], M. B. Sullivan[9], J. G. Caporaso[8] and R. Krajmalnik-Brown[1], (1)Arizona State University, Tempe, AZ, (2)Ohio State University, colombus, OH, (3)Centre for Digestive Diseases, Five Dock, Australia, (4)Ohio State University, Colombus, OH, (5)Massachusetts General Hospital, Cambridge, MA, (6)University of Minnesota, Minneapolis, MN, (7)Integrative Developmental Pediatrics, Tucson, AZ, (8)Northern Arizona University, Flagstaff, AZ, (9)University of Arizona, Tucson, AZ

117 162.117 Multi-Site Randomized Controlled Trial of Fluoxetine in Children and Adolescents with Autism (FAB) A. Mouti[1], M. Kohn[2], D. Reddihough[3], C. Marraffa[4], P. Hazell[5], J. Wray[6], K. Lee[7], P. Santosh[8], D. Dossetor[9], N. Silove[10], A. J. Whitehouse[11], J. Granich[12], M. O'Sullivan[13], F. Orsini[14] and P. Lockhart[14], (1)Sydney Children's Hospital Network, Westmead/Sydney Medical School, The University of Sydney/Centre for Research into Adolescent's Health (CRASH), Westmead, Australia, (2)The Sydney Children's Hospital Network, Westmead/Westmead Hospital/Centre for Research into Adolescent's Health (CRASH) /Sydney Medical School, The University of Sydney, Sydney, Australia, (3)Royal Children's Hospital, Parkville, AUSTRALIA, (4)Royal Children's Hospital Flemington Rd Parkville 3052 Victoria, Australia, Parkville, AUSTRALIA, (5)Sydney Medical School, The University of Sydney/ Centre for Research into Adolescent's Health (CRASH), Westmead, Australia, (6)Child Development Service, Child and Adolescent Health Service/ University of Western Australia, WA, Perth, AUSTRALIA, (7)Murdoch Childrens Research Institute/Department of Paediatrics, University of Melbourne, Parkville, Australia, (8)Centre for Interventional Paediatric Psychopharmacology and Rare Diseases (CIPPRD), Child & Adolescent Mental Health, Institute of Psychiatry, Psychology & Neurosciences, King's College London; Maudsley Hospital, London, London, United Kingdom, (9)Department of Psychological Medicine, Sydney Children's Hospital Network Westmead (NSW) /Sydney Medical School, The University of Sydney, Westmead, Australia, (10)Sydney Children's Hospital Network Westmead (NSW)/Sydney Medical School, The University of Sydney, Sydney, AUSTRALIA, (11)Telethon Kids Institute, University of Western Australia, Perth, Australia, (12)Telethon Kids Institute The University of Western Australia, Perth, WA, Australia, (13) Developmental Disability & Rehabilitation Research, Murdoch Childrens Research Institute, Parkville, Australia, (14)Murdoch Childrens Research Institute, Parkville, Australia

118 162.118 Open Label Clinical Trial of Sulforaphane in School-Aged Children with Autism with Metabolomic Biomarkers S. Bent[1], T. Warren[2], F. Widjaja[3], K. Dang[1], J. W. Fahey[4], J. Kinchen[5], J. Buckthal[6], B. S. Cornblatt[7] and R. Hendren[8], (1)University of California, San Francisco, San Francisco, CA, (2)Psychiatry, University of California, San Francisco, San Francisco, CA, (3)UCSF, San Francisco, CA, (4) Johns Hopkins University, Baltimore, MD, (5)Metabolon, Inc., Durham, NC, (6)Metabolon, Inc., Laguna Hills, CA, (7)Nutramax Laboratories Consumer Care, Inc., Edgewood, MD, (8)University of California San Francisco, San Francisco, CA

119 162.119 Psychopharmacologic Intervention for Adults with Autism Spectrum Disorder: A Systematic Literature Review L. Taylor, De Crespigny Park, Denmark Hill, King's College, London, London, United Kingdom; School of Psychology, University of Western Australia, CRAWLEY, Australia

120 162.120 Systematic Screening of Pharmacological Compounds in Human Pluripotent Stem Cells-Derived Neurons to Identify Patient-Oriented Treatment for Autism: A Proof of Concept H. Darville[1], A. Poulet[2], F. Amsellem[3], L. Chatrousse[1], J. Pernelle[1], C. Boissart[1], T. Bourgeron[4,5], M. Peschanski[6], R. Delorme[3] and A. Benchoua[7,8], (1)iSTEM, Evry, France, (2)iStem, Evry, France, (3)Institut Pasteur, Paris, France, (4) Neuroscience, Institut Pasteur, Paris, France, (5)Université Paris Diderot, Paris, France, (6)iSTEM, Corbeil-Essonnes, France, (7)Neuroplasticity and Therapeutics, CECS/ISTEM/AFM, Evry, France, (8)CECS/ISTEM/ AFM, Evry-cedex, France

121 162.121 The Effects of Four Weeks of Intranasal Oxytocin on Social Responsiveness and Repetitive and Restricted Behaviors in Autism Spectrum Disorders: A Randomized Controlled Trial S. Bernaerts[1,2], C. Dillen[1], J. Steyaert[2,3] and K. Alaerts[1,2], (1)Department of Rehabilitation Sciences, University of Leuven, KU Leuven, Leuven, Belgium, (2) University of Leuven, Leuven Autism Research consortium, Leuven, Belgium, (3)Department of Neurosciences, University of Leuven, KU Leuven, Leuven, Belgium

122 162.122 The Effects of Oxyotcin on Socially Rewarded Learning in Autism Spectrum Disorder A. T. Wang[1], S. Soffes[2], J. Zweifach[2], L. Soorya[3], J. D. Buxbaum[1], A. Kolevzon[1] and J. A. Bartz[4], (1)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, (3)Rush University Medical Center, Chicago, IL, (4) Department of Psychology, McGill University, Montreal, QC, Canada

123 162.123 Trends in the Use of Psychotropic Medication for Children with Autism Spectrum Disorders on Kentucky Medicaid W. D. Lohr, Y. Feygin, G. C. Liu, M. J. Smith, M. D. Stevenson, D. W. Davis, P. G. Williams, C. Woods and J. Myers, Pediatrics, University of Louisville, Louisville, KY

## Poster Session
163 - Molecular and Cellular Biology
5:00 PM - 6:30 PM - Golden Gate Ballroom

124 163.124 Autism-Linked Gene Products Form an Activity-Dependent Signaling Network at the Synapse S. E. Smith, University of Washington, Seattle, WA

125 163.125 Autism-Related Mutations in the CEP290 Gene Alter Cell Signaling at the Primary Cilium. M. Kilander and Y. C. Lin, Hussman Institute for Autism, Baltimore, MD

126 163.126 Comparative Expression Analysis of Autism-Associated Cadherin Superfamily Members J. A. Frei[1], Y. C. Lin[2] and G. J. Blatt[3], (1) Neuroscience, Hussman Institute for Autism, Baltimore, MD, (2)Hussman Institute for Autism, Baltimore, MD, (3)Hussman Institute for Autism, Inc., Baltimore, MD

127 163.127 Cyfip1 Regulates Presynaptic F-Actin Polymerization and Synaptic Vesicle Release during Development. C. Morrison[1], K. Hsiao[2], D. L. Benson[3] and O. B. Gunal[4], (1)Icahn School of Medicine at Mount Sinai, New York, NY, (2)Rockefeller University, New York, NY, (3)Icahn School of Medicine at Mount Sinai, New York, NY, (4)Dept of Psychiatry, Rutgers New Jersey Medical School, Newark, NJ

128 163.128 Deciphering Regulatory Networks of Autism Risk Genes: High Resolution Networks Using Ex Vivo and In Vivo Models of Neurodevelopment. R. Muhle[1], W. Niu[2], K. Yim[3], S. Abdallah[4], G. Hill-Teran[3], M. Krenzer[3] and J. Noonan[3], (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Department of Neurology, Univeristy of Michigan, Ann Arbor, MI, (3)Department of Genetics, Yale University, New Haven, CT, (4)School of Medicine, Yale University, New Haven, CT

129 163.129 Establishment of a Human Induced Pluripotent Stem Cell-Based Model of Kleefstra Syndrome V. Roman[1], S. Berzsenyi[1], J. Kobolák[2], Z. Ábrahám[1], H. X. Avci[3], I. Bock[2], B. Hodoscsek[1], E. V. Tárnokné[1], Z. Bekes[1], A. Chandrasekaran[2], A. O. Dorota[4], E. Varga[2], C. Nemes[2], B. Koványi[1], P. Dezső[1], T. Szél[1], L. Fodor[1], K. Németh[5], A. Balázs[5], A. Dinnyés[2], G. Levay[1], B. Lendvai[1] and J. Nagy[6], (1)Gedeon Richter Plc., Budapest, Hungary, (2)BioTalentum Ltd., Gödöllő, Hungary, (3)University of Szeged, Szeged, Hungary, (4)Szent István University, Gödöllő, Hungary, (5)Autism Foundation, Budapest, Hungary, (6) Molecular Cell Biology, Gedeon Richter Plc., Budapest, Hungary

130 163.130 Folic Acid Attenuates Fragile x Mental Retardation Protein Expression in Lymphoblastoid Cells By Activating DNA Methyltransferases M. Junaid[1], G. LaFauci[2], S. Kuizon[1], S. A. Rotondo[1] and S. Khan[1], (1)Developmental Biochemistry, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Developmental Biochemistry, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY

131 163.131 Gene Expression Profiling of PTEN Knockout Embryonic Cultured Neuron Shows Differential Expressed Genes Overlapping with Human Autism Candidate Genes Converging to Common Pathological Pathways S. K. Cheung[1], C. W. Wong[1], M. Y. Or[1], K. Y. Yang[1], Z. Dong[2], S. R. Badea[3], A. S. L. Cheng[1], B. Feng[1], K. W. R. Choy[2], R. C. C. Chang[3], S. K. W. Tsui[1], J. P. H. Burbach[4] and A. M. L. Chan[1], (1)School of Biomedical Sciences, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong, (2) Department of Obstetrics and Gynaecology, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong, (3)School of Biomedical Sciences, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong, Hong Kong, (4)Brain Center Rudolf Magnus, Department of Translational Neuroscience, University Medical Center Utrecht, Utrecht, Netherlands

132 163.132 Immune Cellular Phenotypes in Blood of Children with Autism Spectrum Disorder- a Pilot Study S. Basheer[1], S. C. Girimaji[2], S. Srinath[3], T. A.M.J van Amelsvoort[4], M. M. Venkataswamy[5] and V. Ravi[5], (1)National Institute of Mental Health and Neurosciences, Bangalore, Karnataka, INDIA, (2)Child and Adolescent Psychiatry, National Institute of Mental Health and Neurosciences, Bangalore, India, (3)NIMHANS, Bangalore, INDIA, (4)Maastricht University, Maastricht, Netherlands, (5) National Institute of Mental Health and Neurosciences, Bangalore, India

133 163.133 Innate Immunity in Autism Spectrum Disorders with Digestive Difficulties M. Parellada[1], M. J. Penzol[2], A. Alcon[3], K. McDowell[4], L. Monteagudo[3], J. C. Leza[4] and B. García-Bueno[5], (1)Hospital Gregorio Marañón, IiSGM, CIBERSAM, Madrid, Spain, (2)Child and Adolescent Psychiatry, Hospital Gregorio Marañon, CIBERSAM, IISGM, Madrid, Spain, (3)Hospital Gregorio Marañon, CIBERSAM, IISGM, Madrid, Spain, (4)Pharmacology, Universidad Complutense, Madrid, Spain, (5) Pharmacology, Universidad Complutense, CIBERSAM, Madrid, Spain

134 163.134 Investigating E6AP Target Genes in Autism Spectrum Disorder C. Amadei[1], J. El Hokayem[2], M. Alessandri[3] and Z. Nawaz[1], (1) Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, Miami, FL, (2)John Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (3)University of Miami, Coral Gables, FL

135 163.135 Metabolic Profiling of the Children's Autism Metabolome Project (CAMP) R. Burrier, J. King, A. M. Smith, R. Alexandridis, P. West, D. Sugden, M. Ludwig, L. Feuling and E. Donley, Stemina Biomarker Discovery, Madison, WI

136 163.136 Modeling Motor Neuron Deficits in a Family with Phelan-Mcdermid Syndrome and Autism Spectrum Disorder S. S. F. Gau[1], C. Chou[2] and H. C. Kuo[3], (1)Psychiatry and Medical Genetics, National Taiwan University of Hospital & College Medicine, Taipei, Taiwan, (2) Psychiatry and Medical Genetics, NATIONAL TAIWAN UNIVERSITY HOSPITAL & COLLEGE OF MEDICINE, Taipei, AB, Taiwan, (3)Institute of Cellular and Organismic Biology, Academia Sinica, Taipei, Taiwan

137 163.137 Novel Transcripts Identified from iPSC-Derived Cortical Neurons Generated from Individuals with Idiopathic Autism D. Dykxhoorn[1], J. El Hokayem[2], D. Van Booven[2], M. A. Pericak-Vance[2] and H. N. Cukier[3], (1)University of Miami Miller School of Medicine, Miami, FL, (2)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (3)John P. Hussman Institute for Human Genomics, Department of Neurology, University of Miami Miller School of Medicine, Miami, FL

138 163.138 Plasma Metabolome, PON1 Status, Environmental Exposures and Childhood Autism J. Sotelo[1], I. Hertz-Picciotto[2] and C. Slupsky[1,3], (1)Nutrition, University of California at Davis, Davis, CA, (2)University of California at Davis, Davis, CA, (3)Food Science and Technology, University of California at Davis, Davis, CA

139 163.139 Role of a Circadian-Relevant Gene, NR1D1, in Brain Development: Possible Involvement in the Pathophysiology of Autism Spectrum Disorder M. Goto[1], M. Mizuno[2], A. Matsumoto[1], Z. Yang[1], E. F. Jimbo[1], H. Tabata[2], K. I. Nagata[2] and T. Yamagata[1], (1)Jichi Medical University, Shimotsuke, Japan, (2)Developmental Research, Aichi Human Service Center, Kasugai, Japan

140 163.140 Salivary Oxytocin Levels in Young Children with Autism Spectrum Disorders (ASD) Compared to Healthy Controls S. M. Kaku[1], R. Christopher[2], S. C. Girimaji[3] and S. Srinath[4], (1)Clinical Neurosciences and Child and Adolescent Psychiatry, National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore, India, (2)Neurochemistry, NIMHANS, Bangalore, India, (3)Child and Adolescent Psychiatry, National Institute of Mental Health and Neurosciences, Bangalore, India, (4) NIMHANS, Bangalore, INDIA

141 163.141 Serum Metabolome Profile in GI Symptomatic ASD Children: A Pilot Study S. J. Walker[1], D. Leavitt[2] and A. Krigsman[3], (1) Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC, (2)Wake Forest University, Winston Salem, NC, (3)Pediatric Gastroenterology Resources of NY & Texas, Far Rockaway, NY

142 163.142 The Children's Autism Metabolome Project (CAMP): Anatomy of a Clinical Study Employing Metabolomics to Identify Novel Metabolic Subtypes of Autism Spectrum Disorder (ASD) E. Donley, J. King, A. M. Smith, P. West, R. Alexandridis, D. Sugden, M. Ludwig, L. Feuling and R. Burrier, Stemina Biomarker Discovery, Madison, WI

143 163.143 The Role of Oxidative Stress in Adults with Autism Spectrum Disorders M. B. Thorsen[1], N. Bilenberg[2], N. Heegaard[3], Å. F. Svenningsen[4] and T. M. Michel[5], (1)Child and Adolescent Psychiatric dept, University of Souther Denmark, Odense, Denmark, (2)Child and Adolescent Psychiatry, Odense C, Denmark, (3)Department of Autoimmunology and Biomarkers, Statens Serum Institut, Copenhagen, Denmark, (4)Department of Neurobiology Research, Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark, (5) Psychiatric Dept, University of Southern Denmark, Odense, Denmark

144 163.144 Toward the Development of an ASD Biomarker: Altered Activity of Kinase Signaling Pathways in Blood E. Argilli[1], T. Berson[2], J. Owen[1], S. Thomas[3] and E. Sherr[1], (1)Neurology, UCSF, San Francisco, CA, (2)Pediatric Neurology, UCSF Brain Development Research Program, San Francisco, CA, (3)Gladstone, UCSF, San Francisco, CA

145 163.145 Transcriptome Analysis of Neurons Differentiated from Patient-Specific Blood Derived Induced Pluripotent Stem Cells Reveals Convergent Pathobiology in Idiopathic Autism Spectrum Disorders J. El Hokayem[1], B. A. deRosa[2], H. N. Cukier[3], C. Garcia-Serje[4], M. L. Cuccaro[1], J. M. Vance[5], M. A. Pericak-Vance[1] and D. Dykxhoorn[6], (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)Oregon Health and Science University, Portland, OR, (3)John P. Hussman Institute for Human Genomics, Department of Neurology, University of Miami Miller School of Medicine, Miami, FL, (4)John P. Hussman Institute for Human Genomics, University of Miami, Miami, FL, (5)Hussman Institute for Human Genomics, Miami, FL, (6)University of Miami Miller School of Medicine, Miami, FL

146 163.146 Transcriptomic Modeling of Phelan-Mcdermid Syndrome Using Glutamatergic Neurons Generated from Patient iPSCs A. Browne[1], M. S. Breen[2], E. Drapeau[2] and J. D. Buxbaum[3], (1) Neuroscience, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY

147 163.147 Whole-Genome Methylation Screen Identifies Enriched Neuronal Pathways in a South African Autism Cohort S. Stathopoulos[1], R. Gaujoux[2] and C. ORyan[1], (1)Molecular and Cell Biology, University of Cape Town, Cape Town, South Africa, (2)Department of Immunology, Faculty of Medicine, Technion - Israel Institute of Technology, Haifa, Israel

148 163.148 Maternal Factors Induces Autism-like Phenotypes in Mice J. R. Huh, Department of Medicine, Division of Infectious Diseases and Immunology, University of Massachusetts Medical School, Worcester, MA

149 163.149 Single-Cell Sequencing Reveals Microglia Population Vulnerability Following Maternal Immune Activation in Mice T. Hammond and B. Stevens, Kirby Neurobiology Center, Boston Children's Hospital and Harvard Medical School, Boston, MA

## Poster Session

164 - Sensory, Motor, and Repetitive Behaviors and Interests
5:00 PM - 6:30 PM - Golden Gate Ballroom

150 164.150 A Comparison of Sensory Subtyping Models in Children with Autism Spectrum Disorder A. E. Lane[1], K. K. Ausderau[2], J. C. Bulluck[3], J. Sideris[4] and G. T. Baranek[3], (1)University of Newcastle, Callaghan, NSW, Australia, (2)University of Wisconsin-Madison, Madison, WI, (3)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Frank Porter Graham Child Development Institute, Chapel Hill, NC

151 164.151 Acoustic Design and Repetitive Behavior in Children with Autism S. Kanakri, Ball State University, Fishers, IN

152 164.152 Age Differences in Objects Interesting Autistic Toddlers V. Langlois[1,2], V. Larose[1], J. Degré-Pelletier[2], G. Thermidor[2], S. Mineau[2], C. Jacques[1,2] and L. Mottron, M.D.[2], (1)University of Quebec in Outaouais, Gatineau, QC, Canada, (2)University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada

153 164.153 An Analysis of Eating Postures in Adolescents and Young Adults Diagnosed with Autism M. E. Parker[1], M. Weiss[2], M. J. Moran[3], J. T. Foley[4], H. Miller-Kuhaneck[3] and D. McDowell[5], (1) Physical Therapy, Texas State University, San Marcos, TX, (2)Fairfield University, Fairfield, CT, (3)Sacred Heart University, Fairfield, CT, (4) State University of New York at Cortland, Cortland, NY, (5)Texas State University, San Marcos, TX

154 164.154 Auditory Temporal Perception Is Enhanced in Children with ASD N. E. Foster[1], A. Tryfon[1,2], K. A. R. Doyle-Thomas[3], E. Anagnostou[4], K. L. Hyde[1,2] and NeuroDevNet ASD Imaging Group[5], (1) International Laboratory for Brain Music and Sound Research (BRAMS), University of Montreal, Montreal, QC, Canada, (2)Faculty of Medicine, McGill University, Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, CANADA, (4)University of Toronto, Toronto, ON, Canada, (5)http://www.neurodevnet.ca/research/asd, Vancouver, BC, Canada

155 164.155 Biofeedback-Based Balance Training in Autism Spectrum Disorder B. G. Travers[1], D. C. Dean[1], A. H. Mason[1], A. Ellertson[2] and L. A. Mrotek[3,4], (1)University of Wisconsin - Madison, Madison, WI, (2)Boise State University, Boise, ID, (3)Kinesiology, University of Wisconsin-Oshkosh, Oshkosh, WI, (4)BioMedical Engineering, Marquette University, Milwaukee, WI

156 164.156 Can Timing Tasks Successfully Differentiate Children with ASD from Those with SLI? A. Gladfelter[1], L. Goffman[2], J. Vuolo[2] and H. Zelaznik[3], (1)Northern Illinois University, DeKalb, IL, (2)Purdue University, West Lafayette, IN, (3)Health and Kinesiology, Purdue University, West Lafayette, IN

157 164.157 Caregiver Strain Varies By Sensory Subtypes of Children with Autism B. Hand[1], A. E. Lane[2], P. De Boeck[1] and A. Darragh[1], (1)The Ohio State University, Columbus, OH, (2)University of Newcastle, Callaghan, NSW, Australia

158 164.158 Characterising the Relationship Between Anxiety, Executive Function, and Restricted and Repetitive Behaviours in Children and Adolescents with Autism Spectrum Disorder J. Lei[1], D. G. Sukhodolsky[1], S. M. Abdullahi[1], M. L. Braconnier[1], C. Kautz[1], K. A. Pelphrey[2,3] and P. E. Ventola[1], (1)Yale Child Study Center, New Haven, CT, (2)Yale University, New Haven, CT, (3)Autism and Neurodevelopmental Disorders Institute, The George Washington University, Washington, DC

159 164.159 Characterization and Clinical Impact of Repetitive Compulsive Behaviors in a Cohort of Psychiatrically Hospitalized Children with ASD M. Grados[1], T. Palka[2], C. A. Beresford[3], F. Barrera[4], C. Peura[5], P. Kodi[1], D. Kaplan[6], M. Verdi[2] and E. Sannar[7], (1)Johns Hopkins University School of Medicine, Baltimore, MD, (2)Developmental Disorders Program, Spring Harbor Hospital, Westbrook, ME, (3)Children's Hospital, Denver Colorado, Aurora, CO, (4)Maine Medical Center, Portland, ME, (5)Developmental Disorders Unit, Spring Harbor Hospital, Westbrook, ME, (6)Child and Adolescent Neuropsychiatry Unit, Sheppard Pratt Health System, Towson, MD, (7)Children's Hospital Colorado, Aurora, CO

160 164.160 Characterizing Restricted and Repetitive Behavior Expression in Minimally Verbal Children and Young Adults with ASD Using Direct Observation and Parent Report A. M. Yoder[1], B. Joseph[1], D. Plesa-Skwerer[1], T. C. Day[1] and H. Tager-Flusberg[2], (1)Boston University, Boston, MA, (2)Psychological and Brain Sciences, Boston University, Boston, MA

161 164.161 Comparing Severity of Restricted and Repetitive Behaviors Between High Risk Baby Siblings with Different Temperament Profiles J. Chen, J. D. Burke, M. Barton and D. A. Fein, Psychological Sciences, University of Connecticut, Storrs, CT

162 164.162 Comparing fNIRS-Based Cortical Activation Patterns Between Children with and without Autism, during Bilateral Coordination Tasks S. Trost[1], M. Culotta[1], M. Hoffman[1] and A. N. Bhat[2], (1)Physical Therapy, University of Delaware, Newark, DE, (2)University of Delaware, Newark, DE

163 164.163 Cross Sectional Associations Between Measures of Social Function, Postural Control and Motor Coordination S. L. Morris, Curtin University, Perth, WA, Australia

164 164.164 Deficits in Taste Identification, in the Context of Intact Taste Sensitivity, in Autism Spectrum Disorder K. Schauder[1], P. Allen[2], J. M. Keith[3], C. J. Zampella[4,5], L. N. Soskey[3], C. J. Stodgell[6], S. L. Hyman[7] and L. Bennetto[3], (1)University of Rochester, Rochester, NY, (2)University of Rochester Medical Center, Rochester, NY, (3)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (4)Clinical & Social Sciences in Psychology, University of Rochester, Rochester, NY, (5)Child and Adolescent Psychiatry and Behavioral Sciences, The Children's Hospital of Philadelphia, Philadelphia, PA, (6) University of Rochester School of Medicine & Dentistry, Rochester, NY, (7)Developmental and Behavioral Pediatrics, University of Rochester School of Medicine, Rochester, NY

165 164.165 Defining the 'Autism Motor Signature': Characterisation of Motor Patterns of Children with Autism during Ipad Gameplay K. Sobota[1,2], A. Anzulewicz[1,3], C. Tachtatzis[2] and J. T. Delafield-Butt[3], (1)Harimata, Kraków, Poland, (2)Electronic and Electrical Engineering, University of Strathclyde, Glasgow, United Kingdom, (3)Faculty of Humanities and Social Sciences, University of Strathclyde, Glasgow, United Kingdom

166 164.166 Determining the Target Postures of Affective Facial Expression in Autism Spectrum Disorder T. Sorensen[1], R. B. Grossman[2] and S. Narayanan[3], (1)Linguistics, University of Southern California, Los Angeles, CA, (2)FACE Lab, Emerson College, Boston, MA, (3)University of Southern California, Los Angeles, CA

167 164.167 Earlier ASD Age of Onset Is Associated with More Amounts and More Severe Restricted and Repetitive Behaviors H. Root[1], P. Hickey[2], S. M. Attar[2] and E. Hanson[3], (1)University of Massachussetts at Amherst, Amherst, MA, (2)Boston Children's Hospital, Boston, MA, (3) Children's Hospital Boston, Boston, MA

168 164.168 Evaluating Multimodal Driver Displays of Varying Urgency for Drivers on the Autistic Spectrum L. S. Shim[1], P. Liu[2], I. Politis[3], P. Regener[4], S. Brewster[5] and F. Pollick[6], (1)School of psychology, University of Glasgow, Glasgow, United Kingdom, (2)School of psychology, University of Glasgwo, Glasgow, United Kingdom, (3) University of Cambridge, Cambridge, United Kingdom, (4)Glasgow University, Glasgow, UNITED KINGDOM, (5)School of Computing Science, University of Glasgow, Glasgow, United Kingdom, (6)School of Psychology, University of Glasgow, Glasgow, United Kingdom

169 164.169 Exploratory Factor Analysis and Test-Retest Reliability of the Sensory Environment and Participation Questionnaire (SEP-Q) B. Pfeiffer, Temple University, Hatfield, PA

170 164.170 Gait Analysis and Motor Performance in Children with Autism Spectrum Disorders during Discrete Gait Perturbation E. Biffi[1], C. Costantini[2], S. Busti Ceccarelli[1], M. Nobile[1,3], M. Molteni[1] and A. Crippa[1,2], (1)Scientific Institute, IRCCS Eugenio Medea, Bosisio Parini, Italy, (2)Department of Psychology, University of Milano-Bicocca, Milano, Italy, (3)3Villa San Benedetto Hospital, Hermanas Hospitalarias, FoRiPsi, Albese con Cassano, Italy

171 164.171 Gender Differences in Autism Spectrum Disorder on Teacher Ratings of the Restricted Behavior Scale-Revised (RBS-R) and the Aberrant Behavior Checklist (ABC) A. M. Lipinski[1], J. A. Toomey[1] and A. K. Jordan[2], (1)The Summit Center, Getzville, NY, (2)Counseling, School, and Educational Psychology, University at Buffalo, SUNY, Buffalo, NY

172 164.172 Growth Mixture Modeling of the Repetitive Behavior Scale-Revised in Young Children with ASD C. Farmer, L. Joseph and A. Thurm, National Institute of Mental Health, Bethesda, MD

173 164.173 Higher-Order Repetitive Behaviors in Toddlers Born Preterm R. D. Sifre[1], J. J. Wolff[2], C. Doyle[1], C. Lasch[3], E. Teska[2] and J. T. Elison[2], (1)Education and Human Development, University of Minnesota, Twin Cities, Minneapolis, MN, (2)University of Minnesota, Minneapolis, MN, (3)Institute of Child Development, University of Minnesota, Minneapolis, MN

174 164.174 IQ As a Moderator of the Presence, Severity, and Fluctuation Rates of 3 Individual Rrbs: Bouncing, Lining up Objects, and Aversion to Loud Noises S. M. Attar[1], P. Hickey[1], A. Walsh[1] and E. Hanson[2], (1)Boston Children's Hospital, Boston, MA, (2)Children's Hospital Boston, Boston, MA

175 164.175 Identifying Genetic and Behavioral Correlates of Sensory Issues in Autism Spectrum Disorders J. Flax[1], C. Gwin[1], S. Wilson[1], K. Law[1], B. Patel-Gupta[1], C. W. Bartlett[2], S. Buyske[3] and L. Brzustowicz[1], (1)Genetics, Rutgers University, Piscataway, NJ, (2) Nationwide Children's Hospital, Columbus, OH, (3)Statistics Dept, Rutgers University, Piscataway, NJ

176 164.176 Increased Centre-of-Pressure Regularity during Quiet Stance in Adults with Autism Spectrum Disorder Y. H. Lim[1], H. Lee[1], T. Falkmer[1], T. Tan[2], G. Allison[3] and S. L. Morris[4], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)School of Mechanical Engineering, Curtin University, Perth, Australia, (3)Curtin Graduate Research School, Curtin University, Perth, Australia, (4)School of Physiotherapy and Exercise Science, Curtin University, Perth, Australia

177 164.177 Intact Musical Abilities in Children with Autism Spectrum Disorder K. Jamey[1], N. E. Foster[1], M. Sharda[1], C. Tuerk[1], R. Chowdhury[1], E. Germain[1], A. Nadig[2] and K. L. Hyde[1,2], (1)University of Montreal, Montreal, QC, Canada, (2)Faculty of Medicine, McGill University, Montreal, QC, Canada

178 164.178 Interpersonal Sensory-Motor Synchronization in Adults with and without ASD during a Joint Improvisational Mirror Game R. S. Brezis[1], Y. Golland[2], T. Alony[2], L. Noy[3] and N. Levit Binnun[2], (1) Kanfei Nesharim St. P.O.Box 167, Interdisciplinary Center, Herzliya, Israel, (2)Psychology, Interdisciplinary Center, Herzliya, Herzliya, Israel, (3)Weizmann Institute of Science, Rehovot, Israel

179 164.179 Investigating the Association Between Restricted Interests and Language Abilities As Groundwork for Novel Intervention Development K. Birtwell and L. Nowinski, Massachusetts General Hospital - Lurie Center, Lexington, MA

180 164.180 Italian Cross-Cultural Adaptation of the Short Sensory Profile in Autism G. Valagussa, E. Grossi, A. Nale and R. Pirovano, Villa Santa Maria scs, Tavernerio, Italy

181 164.181 Measuring Restricted Interests and Repetitive Behaviors in Infant Siblings at-Risk for ASD: Comparing HOME-Setting Versus Clinic Performance of 12 Month Olds M. Lewis[1], N. Brane[1], J. Bradshaw[2] and A. M. Wetherby[3], (1)Marcus Autism Center, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (3)Florida State University Autism Institute, Tallahassee, FL

182 164.182 Motor Behavior As a Qualitative Difference in the Spontaneous Production of Co-Speech Hand Gestures By Adults with Autism Spectrum Disorders A. Bagdasarov[1], E. S. Kim[2], Y. Zhang[3], Z. M. Dravis[4], M. Cola[3], B. Maddox[5], E. Ferguson[6], L. Adeoye[1], F. Fergusson[1], A. A. Pallathra[7], N. Minyanou[8], L. Bateman[6], A. T. Pomykacz[9], K. Bartley[10], E. S. Brodkin[7], J. Pandey[2], J. Parish-Morris[5], R. T. Schultz[2] and A. B. de Marchena[11,12], (1)University of Pennsylvania, Philadelphia, PA, (2)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)Children's Hospital of Philadelphia, Philadelphia, PA, (6)The Center for Autism Research/CHOP, Philadelphia, PA, (7)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (8)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Children's Hospital of Philadelphia-Center for Autism Research, Philadelphia, PA, (10)Center for Autism Research, Malvern, PA, (11)Center for Autism Research, Philadelphia, PA, (12)University of the Sciences, Philadelphia, PA

183 164.183 Natural History of Tiptoe Behavior in ASD G. Valagussa, V. Balatti, L. Trentin and E. Grossi, Villa Santa Maria scs, Tavernerio, Italy

184 164.184 Noise and Autism Spectrum Disorder in Children: An Exploratory Survey S. Kanakri, Ball State University, Fishers, IN

185 164.185 Nonsocial Attentional Bias in Adolescents with ASD Is Not Influenced By the Inversion Effect K. E. Unruh[1], N. J. Sasson[2] and J. W. Bodfish[3], (1)Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, (2)University of Texas at Dallas, Richardson, TX, (3) Vanderbilt University School of Medicine, Nashville, TN

186 164.186 Novel Methods to Assess the Contribution of Sensorimotor Mechanisms to the Presence of Motor Stereotypy in Autism Spectrum Disorders R. L. Shafer[1], K. Wilson[1], E. Stroupe[1] and J. W. Bodfish[2], (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt University School of Medicine, Nashville, TN

187 164.187 Olfactory and Social Impairments in Children with Autism Spectrum Disorders, Sensory Processing Challenges, and Typical Development J. R. Sweigert[1], F. Velasquez[1], G. Greco[1], T. St. John[2], K. K. Begay[2], G. E. Davis[3], A. Estes[2] and N. M. Kleinhans[4], (1)Radiology, University of Washington, Seattle, WA, (2)University of Washington Autism Center, Seattle, WA, (3)Otolaryngology, University of Washington, Seattle, WA, (4)University of Washington, Seattle, WA

188 164.188 Postural Control Assessment in Autism Using the Pediatric Balance Scale and the Fall Screen Assessment System: Results from a Pilot Study G. Valagussa[1,2], L. Trentin[1], E. Terragni[2], C. Cerri[2], V. Gariboldi[2], C. Perin[2], D. Mauri[1] and E. Grossi[1], (1)Villa Santa Maria scs, Tavernerio, Italy, (2)School of Medicine and Surgery, University of Milano Bicocca, Milano, Italy

189 164.189 Relationships Between Gross Motor Ability and Social Function in Young Children with Autism Spectrum Disorders J. M. Holloway[1], E. M. Smith[1], A. Cooper[2] and F. J. Biasini[2], (1)Physical and Occupational Therapy, University of Alabama at Birmingham, Birmingham, AL, (2)Psychology, University of Alabama at Birmingham, Birmingham, AL

190 164.190 Repetitive Behavior and Object Exploration in Young Autistic Children: How Are They Associated? M. Dawson[1], V. Courchesne[2], S. Mineau[3], L. Mottron, M.D.[3] and C. Jacques[4], (1)Centre d'excellence en Troubles envahissants du développement de, Montréal, QC, CANADA, (2)University of Montreal, Montreal, QC, Canada, (3) University of Montreal Center of Excellence for Pervasive Developmental Disorders (CETEDUM), Montreal, QC, Canada, (4)University of Quebec in Outaouais, Gatineau, QC, Canada

191 164.191 Repetitive Behavior and Restricted Interests of Offspring in Adults with ASD and Other Neuropsychiatric Disorders D. W. Evans[1,2], D. B. Hanson[2] and M. Uljarevic[3], (1)Psychology, Bucknell University, Lewisburg, PA, (2)Bucknell University, Lewisburg, PA, (3) Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

192 164.192 Repetitive and Restricted Behaviors and Their Sensory Components in Young Children with ASD: Family Quality of Life and Improvement during Intervention. K. Strauss[1], L. Fava[1], A. Delle Fratte[1], L. Mazzone[2], G. Valeri[3] and S. Vicari[4], (1)Association for Treatment and Research in Autism and Related Conditions, Umbrella Autism, Rome, Italy, (2)University of Catania, Italy, Catania, ITALY, (3)Children Hospital Bambino Gesù - Roma, Roma, ITALY, (4)Children Hospital Bambino Gesù, Rome, ITALY

193 164.193 Restricted Repetitive Behaviors and Interests and the Female Autism Phenotype: An Autism Speaks Autism Treatment Network (AS-ATN) Study. J. Knutsen[1], M. K. Crossman[2], J. M. M. Perrin[2], A. M. Shui[1] and K. Kuhlthau[1], (1)Massachusetts General Hospital, Boston, MA, (2)Harvard Medical School, Boston, MA

194 164.194 Restricted and Repetitive Behaviors and Interests Differ By Sex and Age in High Functioning Children with ASD E. J. Libsack[1], A. Kresse[1], E. E. Neuhaus[2], R. Bernier[3], K. A. Pelphrey[4] and S. J. Webb[5], (1)Seattle Children's Research Institute, Seattle, WA, (2) Seattle Children's Hospital, Seattle, WA, (3)University of Washington Autism Center, Seattle, WA, (4)Yale University, New Haven, CT, (5) University of Washington, Seattle, WA

195 164.195 Restrictive and Repetitive Behaviors and Interests and Inhibitory Control in Children with Autism Spectrum Disorder L. J. Nelson and S. Faja, Boston Children's Hospital, Boston, MA

196 164.196 Selective Impairments in Action Understanding and Movement Intentionality in Young Children with Autism When Compared to Williams Syndrome D. R. Hocking[1], P. A. Fanning[2] and G. Vivanti[3], (1)Bundoora, Developmental Neuromotor & Cognition Lab, La Trobe University, Melbourne, VIC, Australia, (2)School of Psychology and Public Health, La Trobe University, Melbourne, Australia, (3)AJ Drexel Autism Institute, Philadelphia, PA

197 164.197 Sensory Experiences of Adults with ASD and Severe and Complex Needs: A Qualitative Study with Practitioner Informants D. R. Simmons, H. Marshall and S. Harris, School of Psychology, University of Glasgow, Glasgow, United Kingdom

198 164.198 Sensory Hypersensitivity and the Predictability of Repetitive Behaviours in Autism Spectrum Disorder S. E. Schulz[1], R. A. Stevenson[2], M. Segers[3], B. L. Ncube[4] and J. M. Bebko[3], (1) Psychology, University of Western Ontario, London, ON, Canada, (2) Psychology, University of Western Ontario, London, ON, CANADA, (3) York University, Toronto, ON, CANADA, (4)York University, York, ON, CANADA

199 164.199 Sensory Processing, Repetitive Behaviours and Anxiety in Autism Spectrum Disorder and Williams Syndrome M. Glod[1], D. M. Riby[2], E. Honey[3] and J. Rodgers[4], (1)Newcastle University, Institute of Neuroscience, Newcastle Upon Tyne, United Kingdom, (2) Department of Psychology, Durham University, Durham, United Kingdom, (3)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (4)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom

200 164.200 Sensory Responsiveness in Siblings of Children with Autism C. L. Hilton[1] and D. M. Collins[2], (1)University of Texas Medical Branch, Galveston, TX, (2)University of Texas Medical Branch, League City, TX

201 164.201 Sex and IQ As Predictors of Sensory Patterns in ASD A. A. Alzamel, L. R. Watson, E. Crais and G. T. Baranek, Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

202 164.202 Standing Balance on Rigid and Unstable Surfaces in Children on the Autism Spectrum: Interaction Between Symptom and Motor Domains A. H. Mason, K. Gruben, D. C. Dean, K. McLaughlin and B. G. Travers, University of Wisconsin - Madison, Madison, WI

203 164.203 Stereotypies in Autism: An Innovative Mathematical Approach to Depict the Natural Association Scheme of Their Co-Occurrence E. Grossi and E. Caminada, Villa Santa Maria scs, Tavernerio, Italy

204 164.204 The Importance of Teaching Motor Imitation to Children with Autism: Higher Imitators Can Look to the Face Region More Than Lower Imitators When Observing Motor Gestures. Y. Ishizuka[1] and J. Yamamoto[2,3], (1)Keio University, Tama, Tokyo, Japan, (2)Keio University, Tokyo, JAPAN, (3)CREST, Japan Science and Technology Agency, Chiyodaku, Tokyo, Japan

205 164.205 The Influence of Noise on Autonomic Arousal and Cognitive Performance in Autism Spectrum Disorder J. M. Keith[1], J. P. Jamieson[1], P. Allen[2] and L. Bennetto[1], (1)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (2)University of Rochester Medical Center, Rochester, NY

206 164.206 The Relation Between Locomotor Dynamics and the Acoustic Startle Response and Its Modulation in Children with Typical Development and Those with Autism Spectrum Disorders H. Takahashi[1,2], T. Nakamura[3], J. Kim[3], H. Kikuchi[4], T. Nakahachi[1], M. Ishitobi[1], K. Yoshiuchi[5], T. Ando[4], A. Stickley[1,6], Y. Yamamoto[3] and Y. Kamio[1], (1) Department of Child and Adolescent Mental Health, National Institute of Mental Health, National Center of Neurology and Psychiatry, 4-1-1 Ogawahigashicho, Kodaira, Tokyo, Japan, (2)Department of Advanced Neuroimaging, Integrative Brain Imaging Center, National Center of Neurology and Psychiatry, 4-1-1 Ogawahigashicho, Kodaira, Tokyo, Japan, (3)Graduate School of Education, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, Japan, (4)Department of Psychosomatic Research, National Institute of Mental Health, National Center of Neurology and Psychiatry, 4-1-1 Ogawahigashicho, Kodaira, Tokyo, Japan, (5)Department of Stress Sciences and Psychosomatic Medicine, Graduate School of Medicine, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, Japan, (6)Stockholm Center for Health and Social Change (Scohost), Södertörn University, Huddinge 141 89, Sweden

207 164.207 The Relationship Between Audiovisual Statistical Learning and Autistic Traits R. A. Stevenson[1,2], J. K. Toulmin[3], S. Ferber[4], A. Youm[4], S. E. Schulz[5] and M. D. Barense[4], (1)Psychology, University of Western Ontario, London, ON, CANADA, (2)Brain and Mind Institute, University of Western Ontario, London, ON, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)Psychology, University of Toronto, Toronto, ON, Canada, (5)Psychology, University of Western Ontario, London, ON, Canada

208 164.208 The Relationship Between Sensory Challenges and Executive Function Differs By Patterns of Sensory Responses in Preschoolers with Autism K. Carpenter[1], L. DeMoss[2], J. Lorenzi[3], K. L. Williams[4], L. N. Beyer[5], H. Riehl[3], E. Glenn[3], H. Egger[6], G. T. Baranek[4] and G. Dawson[1], (1)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (2)Social Science Research Institute, Duke University, Durham, NC, (3)Duke Center for Autism and Brain Development, Durham, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Duke Unviersitiy, Durham, NC, (6)Child and Adolescent Psychiatry, NYU Langone Medical Center, New York, NY

209 164.209 The Use of Multi-Sensory Environments (MSE) for Children with Autism Spectrum Disorder (ASD): A Qualitative Investigation K. L. Unwin, G. Powell and C. R. Jones, Wales Autism Research Centre, Cardiff University, Cardiff, United Kingdom

210 164.210 Treatment for Auditory Hyper-Reactivity Behavior in Children with Autism Using Exposure and Response Prevention Principles T. B. Carson[1], C. Flores[2], K. Ulmer[2] and L. Guerrero[3], (1)Occupational Therapy, University of Florida, Gainesville, FL, (2)Psychiatry, University of Florida, Gainesville, FL, (3)School Psychology, University of Florida, Gainesville, FL

211 164.211 Unusual Auditory Filtering Behaviors in Minimally Verbal ASD: A Mechanism for Regulating Auditory Input? S. Schwartz[1], L. Wang[2], B. Shinn-Cunningham[2] and H. Tager-Flusberg[3], (1)Graduate Program for Neuroscience, Boston University, Boston, MA, (2)Biomedical Engineering, Boston University, Boston, MA, (3)Psychological and Brain Sciences, Boston University, Boston, MA

212 164.212 Videogames for Children and Adolescents with Autism Spectrum Disorders: Users Perspectives C. D'Agostino and M. Admiraal, Yoenfoco, Buenos Aires, Argentina

213 164.213 Visual Integration of Direction and Orientation Information in Autistic Children C. Manning[1], M. S. Tibber[2] and S. C. Dakin[3], (1)Department of Experimental Psychology, University of Oxford, Oxford, United Kingdom, (2)Camden and Islington NHS Foundation Trust, London, United Kingdom, (3)Department of Optometry and Vision Science, University of Auckland, Auckland, New Zealand

214 164.214 Visual Spatial Channel Bandwidth Varies with Autistic Trait Level M. H. Laurie[1] and D. R. Simmons[2], (1)College of Medicine & Veterinary Medicine, University of Edinburgh, Edinburgh, United Kingdom, (2)University of Glasgow, Glasgow, UNITED KINGDOM

## Poster Session
165 - Social Cognition and Social Behavior II
5:00 PM - 6:30 PM - Golden Gate Ballroom

215 165.215 A Meta-Analysis on Local and Global Face Perception in Individuals with ASD K. Evers[1,2], R. Van der Hallen[1,2] and J. Wagemans[1,2], (1)KU Leuven, Leuven, Belgium, (2)Leuven Autism Research (LAuRes), KU Leuven, Leuven, Belgium

216 165.216 A Pilot Investigation of the Relationship Between Parasympathetic Arousal, Stress, and Social Functioning in Youth with ASD before and after a Peer-Mediated, Theatre-Based Intervention R. A. Muscatello[1], S. Ioannou[2] and B. A. Corbett[3], (1)Neuroscience Graduate Program, Vanderbilt University, Nashville, TN, (2)Lipscomb University, Nashville, TN, (3)Psychiatry and Behavioral Sciences, Vanderbilt University Medical Center, Nashville, TN

217 165.217 A Systematic Review of the Eye Tracking and Electroencephalography Correlates of Facial Emotion Recognition in Individuals on the Autism Spectrum M. H. Black[1,2], N. T. Chen[2,3,4], K. Iyer[2,5], O. V. Lipp[2,3], S. Bolte[2,6,7,8], M. Falkmer[1,2,9], T. Tan[2,5] and S. J. Girdler[1,2], (1) School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia, (3)School of Psychology and Speech Pathology, Curtin University, Perth, Australia, (4)School of Psychology, University of Western Australia, Perth, Australia, (5) School of Mechanical Engineering, Curtin University, Perth, Australia, (6)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (7)Karolinska Institutet Center of Neurodevelopmental Disorders (KIND), Dept. Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (8)Stockholm County Council, Center for Psychiatry Research, Stockholm, Sweden, (9) School of Education and Communication, CHILD programme, Institute of Disability Research, Jönköping University, Jönköping, Jönköping County, Sweden

218 165.218 ADOS and IQ As Predictors of Success on a Social Skills Intervention A. D. Haendel[1], A. McVey[1], B. Dolan[1], H. K. Schiltz[1], K. A. Willar[2], F. Mata-Greve[1], A. M. Carson[3], E. Vogt[1], S. Stevens[4] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Children's Hospital Colorado, Aurora, CO, (3)Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (4)University of Minnesota Medical School, Blaine, MN

219 165.219 Abnormal Use of Facial Expressions in ASD: A Meta-Analysis D. A. Trevisan[1], E. Shin[2] and E. Birmingham[1], (1)Faculty of Education, Simon Fraser University, Burnaby, BC, Canada, (2)Psychology, University of British Columbia, Vancouver, BC, Canada

220 165.220 Adolescent Social Competence in Autism Spectrum Disorder: Associations with Perceptions and Metaperceptions of Peers L. Usher[1], C. A. Burrows[2], D. S. Messinger[3] and H. A. Henderson[4], (1) Waisman Center, University of Wisconsin-Madison, Madison, WI, (2) University of Miami, Coral Gables, FL, (3)Psychology, University of Miami, Miami, FL, (4)University of Waterloo, Waterloo, ON, CANADA

221 165.221 Affective Sharing and Friendship Reciprocity Among School-Aged Boys with ASD J. Mendelson[1] and R. O. Nelson-Gray[2], (1) Duke University, Durham, NC, (2)UNC Greensboro, Greensboro, NC

222 165.222 Are Communication and Social Skills Associated with Emotional Expressions during a Stimulating Play Situation in Young Autistic Children? D. Girard[1], V. Courchesne[2], C. Cimon-Paquet[2], E. Danis[1], I. Soulières[3] and C. Jacques[4], (1)University of Quebec in Montreal, Montreal, QC, Canada, (2)University of Montreal, Montreal, QC, Canada, (3)University of Quebec in Montreal, Montréal, QC, Canada, (4) University of Quebec in Outaouais, Gatineau, QC, Canada

223 165.223 Autistic Traits Predict Weaker Sensitivity to Reward in Emotion Perception H. Thaler[1], A. Fiskaali[1], P. K. Mistry[2], J. Hohwy[3] and J. Skewes[4], (1)Interacting Minds Center, Aarhus University, Aarhus, Denmark, (2)University of California Irvine, Irvine, CA, (3)Philosophy & Cognition Lab, Monash University, Melbourne, Australia, (4)Interacting Minds Centre, Aarhus University, Aarhus, Denmark

224 165.224 Autistic Traits and Symptoms of Social Anxety Related to Different Phases of Attention to Others' Eyes in Social Anxiety Disorder J. L. Kleberg[1], J. Högström[2], M. Nordh[2], S. Bolte[3], E. Serlachius[4,5] and T. Falck-Ytter[6], (1)Uppsala University, Uppsala, Sweden, (2)Centre for Psychiatry Research, Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, (3)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (4) Centre for Psychiatry Research, Department of Clinical Neuroscience, Karolinska Institutet Stockholm, Sweden, Karolinska Institutet, Stockholm, Sweden, (5)Stockholm Health Care Services, Stockholm County Council, Stockholm, Sweden, (6)Dept of Psychology, Uppsala University, Uppsala, Sweden

225 165.225 Autistic Vulnerability in Police Interviews: Compliance Vs. Suggestibility K. L. Maras, Claverton Down, University of Bath, Bath, England, United Kingdom

226 165.226 Brain Correlates of Self-Other Distinction Centred on Touch and Actions in Adults with High-Functioning Autism E. Deschrijver[1], J. R. Wiersema[2] and M. Brass[1], (1)Ghent University, Ghent, Belgium, (2) Ghent University, Ghent, BELGIUM

227 165.227 Changes over Age in Eye-Gaze Pattern in ASD from Childhood to Adolescence: A Cross-Sectional Eye-Tracking Study A. Vincon-Leite[1], E. Rechtman[1], E. Douard[1], A. Philippe[2], N. Chabane[3], H. Lemaître[4], J. M. Tacchella[1], F. Brunelle[1], N. Boddaert[1], A. Saitovitch[1] and M. Zilbovicius[1], (1)INSERM U1000, Institut Imagine, Paris, France, (2)UMR 1163, Institut Imagine, Paris, France, (3)INSERM U1000, Paris, France, (4)INSERM U1000, Institut Imagine, Université Paris Sud, Paris, France

228 165.228 Children with ASD and Their Siblings: A Detailed Analysis of Sibling Interactions Using a Micro-Analytic Computerized Methodology Y. Rum[1], D. A. Zachor[2] and E. Dromi[3], (1)Tel-Aviv University, Tel Aviv, ISRAEL, (2)Tel Aviv University / Assaf Harofeh Medical Center, Zerifin, ISRAEL, (3)Tel Aviv University, Tel Aviv, ISRAEL

229 165.229 Clinician-Derived Social Profiles Predict Play and Friendships with Peers in Children with Autism Spectrum Disorder E. Fox[1], A. Wolken[2], C. M. Hudac[3], M. Frye[1], R. K. Earl[4], S. Trinh[1] and R. Bernier[5], (1)University of Washington, Seattle, WA, (2)University of Washington Medical Center, Seattle, WA, (3)Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA, (4)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (5)University of Washington Autism Center, Seattle, WA

230 165.230 Comparing How Autistic and Non-Autistic Adolescents Describe Their Relationships with Friends, Family Members and Teachers: Less Need to Pretend but More Superficial Evaluations of Friendship Y. Nishio[1], A. Riccio[2], K. Bottema-Beutel[3] and K. Gillespie-Lynch[2], (1)Graduate School of Human Development and Environment, Kobe University, Kobe, JAPAN, (2)Department of Psychology, College of Staten Island and The Graduate Center, CUNY, New York, NY, (3)Lynch School of Education, Boston College, Boston, MA

231 165.231 Comparing Mother-Child and Father-Child Emotion Co-Regulation Processes in Relation to Adaptive Functioning in Children with ASD W. A. Goldberg[1], D. R. Garfin[2] and Y. Guo[3], (1)Psychology and Social Behavior, University of California, Irvine, Irvine, CA, (2)Psychology & Social Behavior, Univ Cal Irvine, Irvine, CA, (3)University of California Irvine, Irvine, CA

232 165.232 Conditional Probabilities of Dynamic Visual Scanning Quantify Altered Pathways of Learning in Toddlers with Autism Spectrum Disorder E. Coben[1], A. Khan[1], A. Klin[2], W. Jones[2] and S. Shultz[1], (1) Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

233 ▸ 165.233 Culture-Specificity and Generalisability of Factors That Affect Vocal Modulation during Conversation: The Role of Autistic Traits N. Singh[1], O. Spinola[2,3], T. A. Sumathi[4] and B. Chakrabarti[3], (1) National Brain Research Centre, Manesar, Haryana, INDIA, (2)National Brain Research Centre, Manesar, India, (3)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, (4)Language, Literacy and Music Laboratory, National Brain Research Centre, Manesar, Gurgaon, India

234 165.234 Deficit in Emotion Recognition in High Functioning Autism Spectrum Disorder N. Mazzoni, Y. Ozturk, A. Bentenuto and P. Venuti, University of Trento, Rovereto, Italy

235 165.235 Deficits in Emotion Processing Ability Predict Autistic Traits in Children: Eye Tracking Results from a Retrodictive Mindreading Task D. J. Walker, S. A. Cassidy and L. Taylor, Psychology, Coventry University, Coventry, United Kingdom

236 165.236 Deficits in Social Awareness & Social Motivation Associated with Increase in Aggression in ASD S. M. Attar[1], A. Walsh[1], P. Hickey[1] and E. Hanson[2], (1)Boston Children's Hospital, Boston, MA, (2) Children's Hospital Boston, Boston, MA

237 165.237 Defining Domains of Social Functioning in Adults with Autism Spectrum Disorder As Targets for Treatment A. A. Pallathra[1], M. E. Calkins[2], B. Maddox[3], L. Perez[4], J. Miller[5], J. Parish-Morris[3], W. Bilker[4], D. S. Mandell[4], R. T. Schultz[5] and E. S. Brodkin[1], (1) Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (2)Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA, (4)University of Pennsylvania, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

238 165.238 Developmental Trajectories of the Attunement of Visual Salience in Infants at High-Risk for ASD with Varying Levels of Affectedness at Outcome A. Kreuzman[1], M. E. Micheletti[1], J. D. Jones[2], A. Klin[3], S. Shultz[4] and W. Jones[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

239 165.239 Developmental Trajectory of Theory of Mind Abilities in Children with Autism Spectrum Disorder E. Hilvert[1] and D. Davidson[2], (1) Loyola University, Chicago, IL, (2)Loyola University Chicago, Chicago, IL

240 165.240 Do Adolescents with Autism Use Task-Irrelevant Facial Expressions of Threat to Adapt Their Behaviour? C. Ioannou[1], E. Vilarem[1], M. El Zein[1], V. Wyart[1], I. Scheid[2], F. Amsellem[3], R. Delorme[3], C. Chevallier[1] and J. Grèzes[1], (1)Ecole Normale Supérieure, Paris, France, (2)Robert Debre University Hospital, Paris, France, (3)Institut Pasteur, Paris, France

241 165.241 Do You See What I See? the Recognition of Bullying in Male Adolescents with Autism Spectrum Disorder E. A. Kelley[1], Z. Hodgins[2], R. Furlano[1], L. Hall[1] and C. C. Hudson[1], (1)Queen's University, Kingston, ON, CANADA, (2)Queen's University, Kingston, ON, Canada

242 165.242 Does Hot Executive Function Predict Theory of Mind in Children with Autism Spectrum Disorder? S. Tsermentseli[1], . C. Kouklari[2] and C. Monks[2], (1)University of Greenwich, London, United Kingdom, (2)Psychology, Social Work, and Counselling, University of Greenwich, London, United Kingdom

243 165.243 Does Preferential Looking at Social and Non-Social Aspects of Naturalistic Scenes Differ Between Individuals with ASD with and without Intellectual Disabilities? A. San Jose Caceres[1], L. Mason[2], H. L. Hayward[3], D. V. Crawley[4], J. E. Tillmann[5], T. Charman[6], J. K. Buitelaar[7], D. G. Murphy[8] and E. Loth[9], (1)Denmark Hill, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, England, United Kingdom, (2)CBCD, Birkbeck, University of London, Gravesend, UNITED KINGDOM, (3)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry Psychology and Neuroscience, King's College London, London, United Kingdom, (4) Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (5)King's College London, London, England, United Kingdom, (6)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (7)Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (8)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

244 165.244 Dynamic Eyetracking As a Measure of Treatment Response for an ASD Social Skills Intervention R. K. Greene[1], M. Sullivan[1], E. S. Brodkin[2], A. A. Pallathra[2], J. K. Kinard[3], M. G. Mosner[1], J. Parish-Morris[4], R. T. Schultz[5] and G. S. Dichter[1], (1)University of North Carolina - Chapel Hill, Chapel Hill, NC, (2)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (3)Carolina Institute for Developmental Disabilities, University of North Carolina - Chapel Hill, Chapel Hill, NC, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

245 165.245 Dynamic Facial Information Processing in Autism Spectrum Disorders and Typical Development: Social Attention Paradigms C. Wardak[1], N. Hernandez[1], Y. Mofid[1], L. Roché[1], C. Barthélémy[1], J. C. Elian[2], E. Houy-Durand[3], M. Lemaire[4], A. Saby[5], J. Malvy[3], M. Guimard-Brunault[5], J. Martineau[1] and F. Bonnet-Brilhault[3], (1)UMR INSERM U 930 – Université François-Rabelais de Tours, Tours, France, (2)Centre pédiatrique de Paris Nord, Sarcelles, France, (3)UMR930, INSERM, Université François –Rabelais de Tours, Tours, France, (4) Centre Universitaire de Pédopsychiatrie, TOURS, FRANCE, (5)CRA Centre Val de Loire, CHRU de Tours, Tours, France

246 165.246 Effect of ASD Traits on Young Adults' Romantic Relationship Experience J. Zhou[1], E. G. Keenan[2], L. Zinn[2], A. Burns[3] and M. D. Lerner[2], (1)Stony Brook University, Port Jefferson, NY, (2) Stony Brook University, Stony Brook, NY, (3)Stony Brook University, Massapequa, NY

247 165.247 Engagement Across School Contexts: How Children Interact with Peers on the Playground and in the Classroom A. Osuna[1], C. Kasari[1], S. Y. Shire[2] and K. Krolik[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA

248 165.248 Experimental Risk-Taking in Teens with an Autism Spectrum Disorder. L. M. Olde Dubbelink[1], S. van der Oord[2] and H. M. Geurts[1], (1)University of Amsterdam, Amsterdam, NETHERLANDS, (2)Clinical Psychology, University of Leuven (KU Leuven), Leuven, Belgium

249 165.249 Exploring Self-Conscious Emotion Processing in Adolescents with High Functioning Autism K. F. Jankowski, D. Cosme and J. H. Pfeifer, Psychology, University of Oregon, Eugene, OR

250 165.250 Exploring the Effect of Social Anxiety on Eye Gaze in Adolescents with ASD Across Emotion Recognition Paradigms A. T. Wieckowski[1], N. N. Capriola[1], S. M. Roldan[1] and S. W. White[2], (1) Virginia Tech, Blacksburg, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA

251 165.251 Eye Gaze Characteristics of Adults on the Autism Spectrum during Complex Dynamic Facial Emotion Recognition M. H. Black[1,2], N. T. Chen[1,3,4], S. Bolte[1,5,6,7] and S. J. Girdler[1,2], (1) Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia, (2)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (3)School of Psychology and Speech Pathology, Curtin University, Perth, Australia, (4) School of Psychology, University of Western Australia, Perth, Australia, (5)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (6)Karolinska Institutet Center of Neurodevelopmental Disorders (KIND), Dept. Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden, (7)Stockholm County Council, Center for Psychiatry Research, Stockholm, Sweden

252 165.252 Eye Gaze and Pupillary Response in Angelman Syndrome M. P. Hong[1], J. L. Guilfoyle[1], L. N. Mooney[1], L. K. Wink[2], R. Shaffer[3], E. Pedapati[4] and C. A. Erickson[2], (1)Psychiatry, Cincinnati Childrens Hospital, Cincinnati, OH, (2)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (3)Cincinnati Children's Hospital Medical Center, Harrison, OH, (4)INSAR Cincinnati Children's Hospital Medical Center, Anderson, OH

253 165.253 Eye- Versus Mouth-Looking Patterns in Emotional Contexts in Children with ASD M. Kim[1], C. Foster[2], Q. Wang[3], C. A. Wall[4], B. Li[3], E. Barney[5], Y. A. Ahn[1], L. Booth[2], M. C. Lyons[6], C. Paisley[6], S. M. Abdullahi[2], M. L. Braconnier[2], J. Lei[2], C. Kautz[2], P. E. Ventola[2] and F. Shic[7], (1)Seattle Children's, Seattle, WA, (2)Yale Child Study Center, New Haven, CT, (3)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (4)University of South Carolina, Columbia, SC, (5)Child Study Center, Yale University, New Haven, CT, (6)Yale University, New Haven, CT, (7)Seattle Children's Research Institute, Seattle, WA

254 165.254 Face Engagement in Preschoolers As It Relates to Characteristics of the Broader Autism Phenotype J. B. Wagner, 2800 Victory Blvd, 4S-209, College of Staten Island, CUNY, Staten Island, NY

255 165.255 From Milliseconds to Months: Long-Term Developmental Change in Moment-By-Moment Attention to Social Stimuli in Infants with ASD M. E. Micheletti[1], A. Kreuzman[1], J. D. Jones[2], A. Klin[3], S. Shultz[4] and W. Jones[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta, & Emory University School of Medicine, Atlanta, GA, (2) Marcus Autism Center, Children's Healthcare of Atlanta & Emory School of Medicine, Atlanta, GA, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

256 165.256 Gaze Glasses for Outcome Assessment in ASD K. Zhou, B. Gutierrez, V. Minces, J. Townsend and L. Chukoskie, University of California, San Diego, La Jolla, CA

257 165.257 Gaze Perception, Superior Temporal Sulcus and Autism: An rTMS Study A. Saitovitch[1], J. C. Lamy[2], E. Rechtman[1], T. Popa[2], S. Medhi[2], N. Chabane[3], A. Philippe[4], F. Bonnet-Brilhault[5], G. Martinez[6], H. Lemaître[7], J. M. Tacchella[1], R. Calmon[1], D. Grevent[1], F. Brunelle[1], N. Boddaert[1] and M. Zilbovicius[1], (1)INSERM U1000, Institut Imagine, Paris, France, (2)Inserm U 1127, CNRS UMR 7225, Sorbonne Universités, UPMC Univ Paris 06 UMR S 1127, ICM, CENIR, F-75013, Paris, France, (3)INSERM U1000, Paris, France, (4)UMR 1163, Institut Imagine, Paris, France, (5)UMR930, INSERM, Université François – Rabelais de Tours, Tours, France, (6)Centre Hospitalier Sainte-Anne, Paris, France, (7)INSERM U1000, Institut Imagine, Université Paris Sud, Paris, France

258 165.258 Gender Differences in Adaptive Functioning in High-Functioning Youth with ASD S. Huberty[1], H. Bowman[2], C. DiStefano[1], P. Renno[3], M. Dapretto[4] and S. S. Jeste[5], (1)University of California Los Angeles, Los Angeles, CA, (2)NPI Psychiatry, UCLA, Los Angeles, CA, (3) University of California Los Angeles, Santa Monica, CA, (4)University of California, Los Angeles, Los Angeles, CA, (5)UCLA, Los Angeles, CA

259 165.259 Gender Identity in People with Autism K. Cooper[1], A. J. Russell[1] and L. Smith[2], (1)University of Bath, Bath, UNITED KINGDOM, (2)University of Bath, Bath, United Kingdom

260 165.260 Heartfelt Emotion: Heightened Sympathetic Arousal and Reduced Changes in Parasympathetic Arousal during Empathy for Pain in Autism M. Hoogenhout[1], S. Schulz[2], P. Weyers[2] and S. Malcolm-Smith[1], (1)Department of Psychology, University of Cape Town, Cape Town, South Africa, (2)Department of Psychology, University of Würzburg, Würzburg, Germany

261 165.261 Helpful or Harmful? a Scoping Review of Autism Spectrum Disorder Diagnostic Disclosure C. Labonte[1], S. Hodgetts[2], J. Frison[1] and S. Phelan[2], (1)Department of Educational Psychology, University of Alberta, Edmonton, AB, Canada, (2)Department of Occupational Therapy, University of Alberta, Edmonton, AB, Canada

262 165.262 Hostile Attributions of Intent and Comorbid Behavior Problems in Children with ASD R. M. Fenning[1], J. M. Moffitt[2], J. K. Baker[1] and A. Partida[2], (1)Child and Adolescent Studies, California State University, Fullerton, Fullerton, CA, (2)Center for Autism, California State University, Fullerton, Fullerton, CA

263 165.263 How Adolescents with Autism Spectrum Disorders (ASD) Spontaneously Attend to Real-Life Scenes: Use of a "Change Blindness" Paradigm M. Hochhauser[1] and O. Grynszpan[2], (1)University of Haifa, Haifa, ISRAEL, (2)CNRS UMR 7222, Institute of Intelligent Systems and Robotics, University Pierre et Marie Curie, Paris, FRANCE

264 165.264 How Do Typically Developing Undergraduate Students Reason about Including Peers with ASD? K. Bottema-Beutel[1], S. Y. Kim[1], S. Crowley[2] and D. B. Miele[2], (1)Lynch School of Education, Boston College, Chestnut Hill, MA, (2)Applied Developmental Psychology, Boston College, Chestnut Hill, MA

265 165.265 Humor Responses and Social Referencing in Children with ASD: The Role of Social Cognitive Complexity E. Ferguson[1], J. Brown[2], N. Minyanou[3], L. Bateman[1], Z. M. Dravis[2], M. Cola[4], A. T. Pomykacz[5], A. B. de Marchena[6], K. Bartley[7], E. S. Kim[8], J. Pandey[8], R. T. Schultz[8] and J. Parish-Morris[2], (1)The Center for Autism Research/ CHOP, Philadelphia, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (4) The Children's Hospital of Philadelphia, Philadelphia, PA, (5)Children's Hospital of Philadelphia- Center for Autism Research, Philadelphia, PA, (6)Center for Autism Research, Philadelphia, PA, (7)Center for Autism Research, Malvern, PA, (8)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

266 165.266 I Think We'Re Alone Now: Solitary Social Behaviors in ASD E. Zane, K. Neumeyer, A. Chugg, J. Mertens and R. B. Grossman, FACE Lab, Emerson College, Boston, MA

267 165.267 Implicit Action Anticipation in Children with and without ASD and Varying Intellectual and Language Impairments: Testing the Application of a Non-Verbal Eye-Tracking Paradigm in a Heterogeneous Sample S. Anns[1] and S. B. Gaigg[2], (1)Autism Research Group, School of Psychology, City, University of London, London, United Kingdom, (2) Psychology, City, University of London, London, United Kingdom

268 165.268 Implicit Attitudes Towards Individuals with Autism By College Students and the General Population J. Burk[1], C. L. Dickter[2] and J. Zeman[1], (1)College of William and Mary, Williamsburg, VA, (2)College of William & Mary, Williamsburg, VA

269 165.269 Increased Synchronous and Sustained Social Interactions Following a Social Skills Intervention for Adults with ASD M. Murray[1], A. Pearl[2], S. L. Brown[3], Z. Soulliard[4] and K. C. Durica[1], (1) Psychiatry, Penn State College of Medicine, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA, (3)Penn State College of Medicine, Hershey, PA, (4) Psychology, Saint Louis University, St. Louis, MO

270 165.270 Increased Value of Biological Motion in Individuals with Few Autistic Traits E. H. Williams and E. S. Cross, Psychology, Bangor University, Bangor, United Kingdom

271 165.271 Influence of Parental Emotion Scaffolding on Children's Emotion Regulation, Social Functioning, and Behavior Problems L. Berkovits[1,2], B. Caplan[2], A. Eisenhower[3] and J. Blacher[4], (1)UCEDD, Children's Hospital Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)University of Massachusetts Boston, Boston, MA, (4)University of California - Riverside, Riverside, CA

272 165.272 Influences of Others' Speech on Gaze Behavior during Activity Monitoring in Children with and without ASD Y. A. Ahn[1], C. Foster[2], E. Barney[3], Q. Wang[4], C. A. Wall[5], B. Li[4], L. Booth[2], M. C. Lyons[6], C. A. Paisley[7], S. M. Abdullahi[2], M. L. Braconnier[2], J. Lei[2], M. Kim[8], C. Kautz[2], P. E. Ventola[2] and F. Shic[9], (1)Seattle Children's, Seattle, WA, (2)Yale Child Study Center, New Haven, CT, (3)Child Study Center, Yale University, New Haven, CT, (4)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (5)University of South Carolina, Columbia, SC, (6)Yale University, New Haven, CT, (7)University of Alabama, Tuscaloosa, AL, (8)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA, (9)Seattle Children's Research Institute, Seattle, WA

273 165.273 Innovations in Theory of Mind Assessment: The Theory of Mind Inventory-2 T. L. Hutchins[1] and P. A. Prelock[2], (1)Communication Sciences & Disorders, University of Vermont, Charlotte, VT, (2)College of Nursing and Health Sciences, University of Vermont, Burlington, VT

274 165.274 Internet Use in Individuals with Autism Spectrum Disorders: Content, Behaviors, and Correlations with Parent Reports M. E. Quinn[1], E. Ramos[2], C. McCormick[3] and T. P. Levine[1], (1)Brown University, Providence, RI, (2)Boston University, Boston, MA, (3) Department of Psychiatry and Human Behavior, Brown University, Providence, RI

275 165.275 Investigating Developmental Relations Between Social Reward, Social Cognition, and Symptom Severity in ASD. E. Sadikova[1], L. C. Anderson[2], M. G. Pecukonis[2], K. R. Warnell[3] and E. Redcay[2], (1) University of Maryland, College Pa, MD, (2)Department of Psychology, University of Maryland, College Park, MD, (3)Department of Psychology, Texas State University, San Marcos, TX

276 165.276 Is Participation in Family Role-Play in Second Life Associated with Improved Social and Emotional Support and Well-Being Among Adults with Autism Spectrum Disorders? L. L. Gilmour[1] and V. R. Smith[2], (1)University of Alberta, Edmonton, AB, Canada, (2) Educational Psychology, University of Alberta, Edmonton, AB, CANADA

277 165.277 Joint Attention Difficulties in Autistic Adults: An Interactive Eye-Tracking Study J. Brock[1], N. J. Caruana[2], G. McArthur[3], A. Woolgar[4], H. Stieglitz Ham[5], N. Kloth[6] and R. Palermo[6], (1)Macquarie University, Sydney, NSW, Australia, (2)Department of Cognitive Science, Macquarie University, Sydney, AUSTRALIA, (3)Cognitive Science, Macquarie University, Sydney, Australia, (4)Macquarie University, Sydney, Australia, (5)Curtin University, St. Lucia, AUSTRALIA, (6)University of Western Australia, Perth, Australia

278 165.278 Joint Attention, Social Referencing, and Theory of Mind in ASD and Non-ASD Children S. Taraben[1], K. Vogt[1] and R. Lajiness-O'Neill[2], (1)Eastern Michigan University, Ann Arbor, MI, (2)Eastern Michigan University, Ypsilanti, MI

279 165.279 Less Sensitive Face-Selective Responses in ASD Measured with Fast Periodic Visual Stimulation EEG S. Vettori[1], S. Van der Donck[2], M. Dzhelyova[3], B. Rossion[3] and B. Boets[4], (1) Onderzoeksgroep Psychiatrie UZ Herestraat 49 - bus 7003 64, K U Leuven, Leuven, Flemish Brabant, Belgium, (2)KU Leuven, 3000 Leuven, BELGIUM, (3)Psychological Sciences Research Institute and Institute of Neuroscience, UCL, Louvain-la-neuve, Belgium, (4)Katholieke Universiteit Leuven, Leuven, BELGIUM

280 165.280 Living with Autism As a University Student: An Irish University Experience M. R. Sweeney, Dublin City University, Glasnevin, Ireland

281 165.281 Mindfulness Training with Children on the Autism Spectrum: A Pilot Study Evaluating the Impact of Mindfulness on Social and Cognitive Outcomes A. Sande[1], D. Gagnon[1] and J. M. Montgomery[2], (1)University of Manitoba, Winnipeg, MB, Canada, (2)Psychology, University of Manitoba, Winnipeg, MB, CANADA

282 165.282 Moderating Effects of Verbal IQ on Social Competence Intervention Outcomes J. Stichter[1], E. Malugen[1], M. Herzog[2], R. M. O'Donnell[3,4] and S. Kilgus[1], (1)University of Missouri, Columbia, MO, (2) Special Education, University of Missouri, Columbia, MO, (3)Educational, School, and Counseling Psychology, University of Missouri Columbia, Columbia, MO, (4)Health Psychology, Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO

283 165.283 Music and Autism: Understanding the Role of Music in Everyday Life D. M. Greenberg[1,2], S. Baron-Cohen[3] and P. J. Rentfrow[4], (1)Department of Psychiatry, Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (2)Clinical Psychology, City University of New York, New York, NY, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (4)Psychology, University of Cambridge, Cambridge, United Kingdom

284 165.284 Naturalistic Assessment of Empathy and Social Cognition in Adolescent ASD – Eye-Tracking As Predictor of Performance and Behavioral Phenotypes in Clinical and General Populations N. Muller[1,2], L. Poustka[3] and T. Banaschewski[4], (1)Department of Child and Adolescent Psychiatry and Psychotherapy, Central Institute of Mental Health, Mannheim, Germany, (2)University of Heidelberg, Heidelberg, Germany, (3)Clinic for Child and Adolescent Psychiatry, Medical University Vienna, Vienna, Austria, (4)Central Institute of Mental Health, University of Heidelberg, Heidelberg, GERMANY

285 165.285 Offending, Social Vulnerability and Compliance in Autism: The Moderating Effect of Theory of Mind K. L. Payne[1], A. J. Russell[2], M. Brosnan[2] and K. L. Maras[2], (1)Psychology, University of Bath, Bath, United Kingdom, (2)University of Bath, Bath, UNITED KINGDOM

286 165.286 Parent-Child Interaction and Peer Relationships in School-Age Children with ASD A. Rodda[1], A. Estes[2], T. St. John[2], J. Munson[1] and S. Dager[3], (1)University of Washington, Seattle, WA, (2) University of Washington Autism Center, Seattle, WA, (3)University of Washington School of Medicine, Seattle, WA

## Special Interest Groups (SIGs)

Saturday, May 13, 2017: 7:15 AM - 8:45 AM

*Location listed under each session*

### 168 - Promoting Partnerships Between Patient Advocacy Groups and Researchers to Improve Autism Research

7:15 AM - 8:45 AM - Nob Hill AB

*SIG Leaders:* Alycia Halladay & Shafali Jeste

*SIG Co-Leader:* Charlotte DiStefano

Advances in genetic testing have resulted in the discovery of multiple rare variants that cause autism spectrum disorder (ASD). In order to create communities and accelerate our understanding of these disorders, affected families have established Patient Advocacy Groups (PAGs). This SIG aims to increase crosstalk between these PAGs and researchers and clinicians who study and care for these populations, with focus on the following key topics that span disorders: database development, centralized resources for families, coordinated clinical care, development of infrastructure for collaborative studies and for clinical trials, leading to collaborative research and consistent clinical guidelines. PAGs and patient representatives will provide insight into the diagnostic process and the gaps that exist between diagnosis and clinical care. The impact of research on these families with ASD-related genetic disorders will be of key consideration.

### 169 - Suicidality in Autism Spectrum Conditions

7:15 AM - 8:45 AM - Yerba Buena 3-6

*SIG Leader:* Sarah Cassidy

*SIG Co-Leaders:* Gareth Richards & Kathryn Cook

Research is showing high rates of suicidal thoughts, behaviours, and death by suicide in people with Autism Spectrum Conditions (ASC). Systematic reviews have highlighted methodological weaknesses in the limited number of available studies; small non-representative samples, unconfirmed ASC diagnosis, lack of valid measures or attention to risk and protective factors. This impedes development of new theories and interventions to understand and reduce suicide risk in ASC. Our first SIG identified three priority areas for future research: 1) Measurement/Assessment; 2) Risk/Protective Factors; and 3) Intervention/Prevention. The current SIG therefore aims to develop each of these areas by identifying priority research questions and methods to address them, through discussions in small working groups. The trainee co-leads will summarize the outcomes of the SIG, discuss and identify training needs and career opportunities in this area, and match students with group members with similar interests.

### 170 - Clinical Strategies for Increasing Inclusion in Neuroscience Research Across the ASD Spectrum

7:15 AM - 8:45 AM - Yerba Buena 10-14

*SIG Leaders:* Emily S. Kuschner & Christine Wu Nordahl

*SIG Co-Leaders:* Mark D. Shen & Kevin G. Stephenson

This SIG aims to increase inclusion in neuroscience research across the ASD spectrum by bringing together multidisciplinary teams conducting neuroimaging and neurophysiology studies of individuals with ASD who are minimally/nonverbal or who have intellectual disability. The objective of the meeting is to use small working groups and large group discussion to compile clinical approaches researchers are using to maximize successful, high quality data collection from across the autism spectrum. SIG content generated by researchers, clinicians, trainees, and stakeholders at the meeting will be disseminated via an open-access, peer-reviewed collaborative guidelines paper and/or open-source website.

### 171 - Safe and Accessible Transportation for Individuals on the Autism Spectrum: Addressing Barriers to Community Participation

7:15 AM - 8:45 AM - Nob Hill CD

*SIG Leader:* Amber M. Angell

*SIG Co-Leader:* Cecilia Feeley

Although transportation to school, work, and social activities is a daily necessity for individuals with ASD, there is little research on the topic. Emerging research suggests that individuals with ASD may encounter safety risks, sometimes life-threatening, while taking school, public, or private transportation. Their community participation is also at risk, as little is known about the facilitators and barriers to safe and accessible transportation for individuals with ASD. An interdisciplinary, collaborative approach is needed to understand the scope of the problem and develop innovative environmental modifications and evidence-based interventions, building from the experiences and expertise of individuals with ASD and their families. In this SIG, we bring together a variety of perspectives and plan for further future collaboration to address this critical and urgent issue.

## 172 - Welcome Address & Sponsor Update

8:45 - Welcome from IMFAR Organizers
8:50 - Autism Speaks Update
Yerba Buena 8-9

## Keynote Address

173 – Developmental Endophenotypes to Quantify the Emergence of Autism in Infancy
9:00 AM - 10:00 AM - Yerba Buena 8-9

Speakers: Ami Klin, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
Warren Jones, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

Reciprocal social engagement is a fundamental platform for infant brain development, fueling the emergence and refinement of social and communicative skills and facilitating a cascade of key neurodevelopmental milestones. In particular, the immediate postnatal state is marked by neoteny and extreme neuroplasticity: because human infants enter the world in such a fragile state, their survival depends upon a parent or caregiver's near-constant care. As a result, the fast pace of infant brain growth and specialization is typically enacted within a very specific context: reciprocal social engagement. This presentation focuses on the quantification of social visual engagement – the way in which infants visually explore, engage with, and ultimately learn from and adapt to their surrounding world. We focus on a series of experimental studies probing the first 2 years of life. Results indicate that social visual engagement is under stringent genetic control, is highly conserved across human and non-human primate species, and is pathognomonically impaired in infants later diagnosed with autism. Together, these findings implicate social visual engagement as a neurodevelopmental endophenotype for autism and also augur a new generation of human and cross-species gene-brain-behavior studies to advance understanding of the pathobiology of autism.

## Panel Session

174 - Building a Phenotype: Discoveries of Genetically Distinct Subtypes of ASD
10:30 AM - 12:00 PM - Yerba Buena 3-6

*Session Chair:* C. M. Hudac, *Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA*

*Discussant:* R. Bernier, *University of Washington Autism Center, Seattle, WA*

The significant etiologic and phenotypic heterogeneity of autism spectrum disorder (ASD) has made it challenging to target underlying mechanisms of ASD pathology and identify replicable biomarkers. A burgeoning "genetics-first" approach has been proposed to reduce heterogeneity and enable identification of subtypes of individuals with ASD across multiple physiological and behavioral systems. To make progress in the development of ASD biomarkers, we must establish the connection between behavior and the underlying physiology associated with etiologically defined subgroups. In this panel, we will focus on recent discoveries spanning multiple units of analysis to describe ASD phenotypes of children and individuals with genetic variants. We will begin by identifying behavioral patterns of syndromic ASD associated with de novo mutations and copy number variations (Stessman). We will then present data connecting behavior and physiology for specific genetic subtypes, including eye gaze phenotypes in PTEN carriers (Frazier), EEG resting state phenotypes in 15q11.2-13 duplication carriers (Jeste), and EEG dynamic patterns of attention in SCN2A carriers (Hudac). We will discuss common strategies and underlying mechanisms across these topics and the relevance of genetically distinct subtypes for the identification of biomarkers in ASD.

10:30 174.001 Targeted Sequencing Identifies 90 Neurodevelopmental Disorder Risk Genes with Autism and Developmental Disability Biases H. A. F. Stessman[1], B. Ziong[2], B. P. Coe[3], T. Wang[4], K. Hoekzema[3], T. Turner[5], G. Santen[6], J. Gecz[7], C. Schwartz[8], F. Kooy[9], C. Romano[10], E. Courchesne[11], D. G. Amaral[12], I. Scheffer[13], F. Hormozdiari[3], H. Peeters[14], M. Nordenskjöld[15], A. Schenck[16], R. Bernier[17] and E. E. Eichler[3], (1)Pharmacology, Creighton University School of Medicine, Omaha, NE, (2)Department of Forensic Medicine and Institute of Brain Research, Huazhong University of Science and Technology, Wuhan, Hubei, China, (3)Department of Genome Sciences, University of Washington, Seattle, WA, (4)The State Key Laboratory of Medical Genetics, School of Life Sciences, Central South University, Changsha, Hunan, China, (5)University of Washington, Bothell, WA, (6)Clinical Genetics, Leiden University Medical Center, Leiden, Netherlands, (7)Robinson Research Institute, University of Adelaide, North Adelaide, Australia, (8)J.C. Self Research Institute of Human Genetics, Greenwood Genetic Center, Greenwood, SC, (9)University of Antwerp, Edegem, BELGIUM, (10)Unit of Pediatrics & Medical Genetics, IRCCS Associazione Oasi Maria Santissima, Troina, Italy, (11)University of California, San Diego, San Diego, CA, (12) Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (13)Department of Paediatrics, University of Melbourne, Royal Children's Hospital, Melbourne, Victoria, Australia, (14)Centre for Human Genetics, KU Leuven and Leuven Autism Reasearch, Leuven, BELGIUM, (15)Center for Molecular Medicine, Department of Molecular Medicine and Surgery, Karolinska Institutet, Stockholm, Sweden, (16) Department of Human Genetics, Radboud University Medical Center, Nijmegen, Netherlands, (17)University of Washington Autism Center, Seattle, WA

10:50 174.002 Cognitive, Behavioral, and Eye Gaze Patterns in Patients with Germline Heterozygous PTEN Mutations and Autism Spectrum Disorder T. W. Frazier[1], E. W. Klingemier[1], E. E. Zetzer[1] and C. Eng[2], (1)Cleveland Clinic Center for Autism, Cleveland, OH, (2)Genomic Medicine Institute, Cleveland Clinic, Celeveland, OH

11:10 174.003 Electrophysiological Biomarkers of Dup15q Syndrome: From Mechanism to Clinical Implications of Functional Biomarkers in Autism Genetics S. S. Jeste[1], J. Frohlich[2], P. Golshani[3], L. Reiter[4], E. H. Cook[5], R. Sankar[3] and D. Senturk[6], (1)UCLA, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)Center for Autism Research and Treatment, University of California, Los Angeles, Los Angeles, CA, (4)University of Tennessee Health Science Center, Memphis, TN, (5)Psychiatry, University of Illinos at Chicago, Chicago, IL, (6) University of California Los Angeles, Los Angeles, CA

11:30 174.004 Dynamic Patterns of Attention in Children with Rare SCN2A Genetic Variants C. M. Hudac[1], T. DesChamps[2], B. E. Cairney[3], R. Ma[4], A. Wallace[2], V. Troiani[5], A. S. DiCriscio[6], C. M. Taylor[7] and R. Bernier[3], (1)Psychiatry & Behavioral Sciences, University of Washington, Seattle, WA, (2)University of Washington, Seattle, WA, (3)University of Washington Autism Center, Seattle, WA, (4)Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, MA, (5)Geisinger-Bucknell Autism & Developmental Medicine Institute, Lewisburg, PA, (6)Geisinger ADMI, Lewisburg, PA, (7)Geisinger Health System, Lewisburg, PA

11:50 Discussant

## Panel Session
### 175 - Mental Health Crises in Youth with Autism Spectrum Disorder
10:30 AM - 12:00 PM - Yerba Buena 7

*Session Chair:* L. Kalb, *Johns Hopkins School of Public Health, Baltimore, MD*

A mental health crisis occurs when an individual experiences an acute disturbance of thought, mood, or behavior and the resources available to manage the situation are not available at the time and place of occurrence. Clinical experience suggests such crises occur frequently among individuals with an Autism Spectrum Disorder (ASD) and that they have serious negative consequences for child and family functioning. Despite the scope and impact of this issue, there is no systematic research on the measurement or management of mental health crises in individuals with ASD. This panel addresses this gap from several perspectives. Mr. Kalb will present on the development and psychometric analysis of the first mental health crisis measure designed for youth with ASD. Dr. Vasa will describe results from the first national survey of child and adolescent psychiatrists examining management of mental health crises among youth with ASD. Dr. Righi will report on the factors related to inpatient psychiatric hospitalization among youth with ASD, an important setting for treatment of mental health crises. Dr. Siegel will conclude the panel by discussing the prevalence and correlates of suicidal expression, a critical and life-threatening symptom of crisis, among children and adolescents with ASD admitted to an inpatient psychiatric setting.

10:30 175.001 Psychometric Analysis of the Mental Health Crisis Assessment Scale in Youth with Autism Spectrum Disorder L. Kalb[1], L. Hagopian[2,3] and R. A. Vasa[2], (1)Johns Hopkins School of Public Health, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD, (3)Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, MD

10:50 175.002 Management of Mental Health Crises in Youth with and without Autism Spectrum Disorder: A National Survey of Child Psychiatrists R. A. Vasa[1], L. Kalb[2], E. Stuart[3], D. S. Mandell[4] and M. Olfson[5], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins University, Baltimore, MD, (3)Johns Hopkins School of Public Health, Baltimore, MD, (4)University of Pennsylvania, Philadelphia, PA, (5)Columbia University Medical Center, New York, NY

11:10 175.003 Predictors of Inpatient Psychiatric Hospitalization for Children and Adolescents with Autism Spectrum Disorder G. Righi[1], J. M. Benevides[2], C. A. Mazefsky[3], M. Siegel[4], S. J. Sheinkopf[5] and E. M. Morrow[6], (1)Alpert Medical School of Brown University, Rumford, RI, (2)RI-CART and ADDIRC, Somerset, MA, (3)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (4)Maine Medical Center - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME, (5)Brown Center for the Study of Children at Risk, Women and Infants Hospital, Providence, RI, (6)Department of Molecular Biology, Cell Biology and Biochemistry and Institute for Brain Science, Brown University, Providence, RI

11:30 175.004 Talking about Death or Suicide: Prevalence and Clinical Correlates in Youth with Autism Spectrum Disorder M. Siegel[1], A. Thurm[2], C. Farmer[2], J. A. Bridge[3,4], E. Lanzillo[5], R. Greenbaum[6], M. Pao[5], C. A. Mazefsky[7] and L. Horowitz[5], (1)Maine Medical Center - Tufts School of Medicine - Spring Harbor Hospital, Westbrook, ME, (2)National Institute of Mental Health, Bethesda, MD, (3)The Ohio State University, Columbus, OH, (4)The Research Institute, Nationwide Children's Hospital, Columbus, OH, (5)Intramural Research Program, National Institute of Mental Health, National Institutes of Health, Bethesda, MD, (6)Children's Mental Health Team, Surrey Place Centre, Toronto, ON, Canada, (7)Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA

## Panel Session
### 176 - The Continuum of ASD Across the Lifespan: Stability and Change in Symptoms, Cognitive Skills and Adaptive Functioning Based on Four Independent Cohorts
10:30 AM - 12:00 PM - Yerba Buena 8

*Session Chair:* S. H. Kim, *Center for Autism and the Developing Brain, White Plains, NY*

*Discussant:* V. Hus Bal, *STAR Center for ASD & NDD; Dept of Psychiatry, University of California, San Francisco, San Francisco, CA*

As ASD is a lifelong developmental disorder, there is a need to examine behavioral trajectories from the emergence of symptoms to long-term outcomes. This panel aims to shed light on the developmental continuum of ASD based on data from four independent cohorts followed during different developmental stages from infancy to middle adulthood. The first presentation examines trajectories of directly observed ASD symptoms in a cohort of infants and toddlers seen approximately every 1-6 months from 1-3 years. The second presents ASD symptom trajectories based on parent interviews repeated on five occasions between 2-18 years and their relation to parent-reported language. The third uses multiple assessment modalities to demonstrate changes in ASD and mental health symptoms, as well as cognitive and adaptive functioning from 12-16 years in a population-based sample. The last compares child and middle-adulthood ASD symptoms, IQ and adaptive behavior in a 30-year follow up study of individuals initially assessed between 2-16 years. By providing insight into stability and change across different developmental periods, these studies highlight methodological challenges to assessment of individuals with ASD. Taken together, findings underscore the need for careful diagnostic, behavioral and intellectual assessment capturing variability in trajectories and outcomes over time.

10:30 176.001 Patterns of ASD Symptom Trajectories in Infants and Toddlers Followed from 12 to 36 Months of Age S. H. Kim[1] and C. Lord[2], (1)Center for Autism and the Developing Brain, White Plains, NY, (2)Psychiatry, Weill Cornell Medical College, White Plains, NY

10:50 176.002 Stability and Change in ASD Symptoms from Childhood to Young Adulthood: Associations with Spoken Language Development V. Hus Bal[1], M. Fok[2] and C. Lord[3], (1) STAR Center for ASD & NDD; Dept of Psychiatry, University of California, San Francisco, San Francisco, CA, (2)University of California, San Francisco, San Francisco, CA, (3)Psychiatry, Weill Cornell Medical College, White Plains, NY

11:10 176.003 Developmental Trajectories from Mid-Childhood to Early Adulthood in a Population Sample T. Charman[1], R. Kent[2], S. Lukito[3], D. Stringer[4], G. Baird[5], A. Pickles[6] and E. A. Simonoff[7], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Institute of Psychiatry, Psychology, and Neuroscience, King's College London., London, UNITED KINGDOM, (4)Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (5)Newcomen Children's Neurosciences Centre, Evelina London Children's Hospital at Guy's and St Thomas' NHS Foundation Trust, London, UNITED KINGDOM, (6)King's College London, London, UNITED KINGDOM, (7)Institute of Psychiatry, London, UNITED KINGDOM

11:30 176.004 Autism 30 Years Later: A Follow up Study of Children Diagnosed with ASD from 1970-1999 M. R. Klinger[1], N. Bagatell[2], A. T. Meyer[2], W. T. Brooks[3] and L. G. Klinger[1], (1)UNC TEACCH Autism Program, Chapel Hill, NC, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)TEACCH Autism Program, Carrboro, NC

11:50 Discussant

## Panel Session

177 - Altered Sensory Processing and Social Functioning in ASD: Examining Associations and Mechanisms through Multiple Methods and Populations.
10:30 AM - 12:00 PM - Yerba Buena 9

*Session Chair:* M. Dapretto, *University of California, Los Angeles, Los Angeles, CA*

*Discussant:* K. A. Pelphrey, *Yale University, New Haven, CT*

Individuals with ASD have extremely high rates of sensory processing atypicalities, including over-responsivity, under-responsivity, and sensory seeking (Ben-Sasson et al., 2008). However, sensory symptoms have been understudied until recently, when they were added to the DSM-5 diagnostic criteria for ASD. Since then, sensory processing abnormalities have been increasingly recognized to be associated with greater impairment, including more social deficits (Glod et al., 2015). However, there has been little research examining how and why sensory processing difficulties are associated with social impairment. This panel addresses possible mechanisms underlying the association between atypical sensory processing and social symptomatology while highlighting recent advances in behavioral, physiological, and imaging methods for studying sensory processing from infancy through adolescence. Teresa Tavassoli will present data examining whether sensory and social symptoms are differentially associated across children with ASD, Sensory Processing Disorder, and typical development. Blythe Corbett will discuss the association between sensory symptoms, social difficulties, and accumulated stress (as indexed by evening cortisol). Shulamite Green will address neurobiological mechanisms underlying the effect of distracting sensory stimuli on social cognition. Finally, Carissa Cascio will present on sensory seeking and frontal alpha asymmetry as longitudinal predictors of social functioning in infants at high and low risk for ASD.

10:30 177.001 Exploring the Relationship Between Sensory and Social Symptoms of Autism T. Tavassoli[1], L. J. Miller[2], S. A. Schoen[3], J. Brout[4], J. C. Sullivan[5] and S. Baron-Cohen[6], (1) Seaver Autism Center, New York, NY, (2)STAR Institute for SPD, Greenwood Village, CO, (3)Sensory Processing Disorder Foundation, Greenwood, CO, (4)Duke University Medical Center, Durham, NC, (5)Northeastern University, Boston, MA, (6) Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

10:50 177.002 Examining Tactile Sensitivity and Associations with Physiological Arousal and Social Functioning in Youth with Autism Spectrum Disorder. B. A. Corbett[1] and R. A. Muscatello[2], (1) Psychiatry and Behavioral Sciences, Vanderbilt University Medical Center, Nashville, TN, (2)Neuroscience Graduate Program, Vanderbilt University, Nashville, TN

11:10 177.003 Sensory over-Responsivity and Social Cognition in ASD: Effects of Aversive Sensory Stimuli and Attentional Modulation on Neural Responses to Social Cues S. A. Green[1], L. M. Hernandez[2], H. Bowman[3], S. Y. Bookheimer[4] and M. Dapretto[4], (1)Ahmanson-Lovelace Brain Mapping Center, UCLA, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)NPI Psychiatry, UCLA, Los Angeles, CA, (4) University of California, Los Angeles, Los Angeles, CA

11:30 177.004 Neurophysiological Substrates and Developmental Sequelae of Sensory Seeking in Infants at High Risk for Autism Spectrum Disorder T. Woynaroski[1], C. Damiano[2], D. M. Simon[3], L. V. Ibanez[4], C. R. Newsom[5], M. Murias[6], M. T. Wallace[7], W. L. Stone[8] and C. J. Cascio[9], (1)Hearing and Speech Sciences, Vanderbilt University Medical Center, Thompsons Stn, TN, (2)University of North Carolina, Durham, NC, (3)Program in Neuroscience, Vanderbilt University, Nashville, TN, (4)UW READi Lab, Seattle, WA, (5)Pediatrics, Vandetbilt University Medical Center, Nashville, TN, (6)Duke University, Durham, NC, (7) Vanderbilt University, Nashville, TN, (8)Psychology, University of Washington, Seattle, WA, (9)Vanderbilt University School of Medicine, Nashville, TN

11:50 Discussant

## Poster Session

178 - Early Development (< 48 months)
12:00 PM - 1:40 PM - Golden Gate Ballroom

1 178.001 Early Social Communication Predictors of Emergent Literacy Skills in Preschool Children with Autism Spectrum Disorder V. P. Reinhardt[1,2] and A. M. Wetherby[2], (1)MIND Institute, University of California Davis, Davis, CA, (2)Florida State University Autism Institute, Tallahassee, FL

2 178.002 "The Phenomenon of Loss." Early Development and Functional Outcome in Children with Autism Spectrum Disorder and Reported Developmental Regression. S. D. Boterberg[1], R. Van Coster[2] and H. Roeyers[1], (1)Department of Experimental-Clinical and Health Psychology, Ghent University, Ghent, Belgium, (2)Department of Pediatric Neurology & Metabolism, Ghent University Hospital, Ghent, Belgium

3 178.003 'Sticky Attention' and the Development of Impaired Social Orienting and Atypical Arousal Regulation in Infants at High Risk for ASD B. Keehn[1], J. B. Wagner[2], H. Tager-Flusberg[3] and C. A. Nelson[4], (1)Purdue University, West Lafeyette, IN, (2)College of Staten Island, CUNY, Staten Island, NY, (3)Psychological and Brain Sciences, Boston University, Boston, MA, (4)Boston Children's Hospital, Boston, MA

4 178.004 A Results Driven Approach to Evaluating Progress for Toddlers with ASD Participating in a State Early Intervention Program D. M. Noyes-Grosser[1], K. M. Siegenthaler[1], Y. Wu[1], B. Elbaum[2] and R. G. Romanczyk[3], (1)New York State Department of Health, Bureau of Early Intervention, Albany, NY, (2)University of Miami, Coral Gables, FL, (3)State University of New York at Binghamton, Binghamton, NY

5 178.005 Are Longitudinal Associations Between Joint Attention and Language Attributable to Nonsocial Attention in Infancy? an Infant Sibling Study M. Del Rosario[1], S. Singh[2], N. Pham[2] and K. Gillespie-Lynch[3], (1) Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)Department of Psychology, College of Staten Island and The Graduate Center, CUNY, New York, NY

6 178.006 Atypical Visual Attention in Infants at High Genetic Risk for Autism Spectrum Disorder D. Reisinger, A. Brewe, K. Smith, A. Vittes and J. Roberts, Department of Psychology, University of South Carolina, Columbia, SC

7 178.007 Birth Order and Sibling Status Impacts Psychometrics of M-CHAT-R with Follow-up (M-CHAT-R/F) K. R. Bradbury[1], D. L. Robins[2], M. Barton[1], W. L. Stone[3], Z. Warren[4] and D. A. Fein[1], (1)Psychological Sciences, University of Connecticut, Storrs, CT, (2)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (3)Psychology, University of Washington, Seattle, WA, (4)Vanderbilt University, Nashville, TN

8 ▸178.008 Bridging Early Diagnosis and Intervention: Racial Differences in Accessing Early Intervention B. A. Brooks[1], L. Armistead[2], L. B. Adamson[2] and D. L. Robins[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta and Emory University School of Medicine, Atlanta, GA, (2)Georgia State University, Atlanta, GA, (3)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

9 178.009 Can Early Vocalizations Predict Later ASD Symptom Severity? D. Garrido[1], L. R. Watson[2], R. Garcia-Retamero[1], G. Carballo[1] and E. Crais[2], (1)Psychology, University of Granada, Granada, Spain, (2)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

10 178.010 Cascading Effects of Attention Disengagement and Sensory Seeking on Social Symptoms in a Community Sample of Infants at-Risk for a Future Diagnosis of ASD G. T. Baranek[1], T. Woynaroski[2], S. Nowell[1], L. Turner-Brown[3], M. DuBay[1], E. Crais[4] and L. R. Watson[5], (1) University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Hearing and Speech Sciences, Vanderbilt University Medical Center, Thompsons Stn, TN, (3)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)University of North Carolina- Chapel Hill, Chapel Hill, NC

11 178.011 Characterization of Infants at High-Risk and Ultra High-Risk for Autism N. M. McDonald[1], L. P. Jackson[1], C. Ponting[2], M. Dapretto[3] and S. S. Jeste[4], (1)Semel Institute, UCLA, Los Angeles, CA, (2)Clinical Psychology, UCLA, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)UCLA, Los Angeles, CA

12 178.012 Characterizing Head Motion in Diffusion Magnetic Resonance Imaging (MRI) of Infants in the First Six Months of Life M. Zeydabadinezhad[1], S. Shultz[2], W. Jones[3], A. Klin[3] and L. Li[2], (1) Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Decatur, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

13 178.013 Community Screening at 12 Months with the First Year Inventory: Stability of Diagnostic Clinical Impressions over Time L. Turner-Brown[1], S. Nowell[2], N. B. Leezenbaum[3], A. T. Meyer[2], G. T. Baranek[4], E. Crais[4] and L. R. Watson[4], (1)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3) TEACCH, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC

14 178.014 Comparison of Mullen Profiles Among Children with DS, ASD, and Comorbid Presentation of DS and ASD M. Udhnani[1], T. Hamner[1], D. Fidler[2], S. Hepburn[3], C. Robinson Rosenberg[4] and N. R. Lee[1], (1)Drexel University, Philadelphia, PA, (2)Colorado State University, Fort Collins, CO, (3)University of Colorado / JFK Partners, Aurora, CO, (4)University of Colorado, Aurora, CO

15 178.015 Comparison of Parent Report and Direct Assessment of Child Ability in Toddlers K. A. Perkins[1], L. E. Miller[2], Y. G. Dai[3] and D. A. Fein[4], (1)Rhode Island Consortium for Autism Research and Treatment, East Providence, RI, (2)University of Connecticut, Mansfield Center, CT, (3)University of Connecticut, Storrs, CT, (4)Psychological Sciences, University of Connecticut, Storrs, CT

16 ▸178.016 Construct and Predictive Validity of Modified Checklist for Autism in Toddlers, Revised with Follow-up (M-CHAT-R/F) Taiwan Version for Toddlers in Taiwan Y. T. Wu, J. M. Tsai and Y. C. Yang, School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei, Taiwan

17 178.017 Decision Factors in Referrals for Autism Spectrum Disorder Evaluations M. A. Cannon and T. P. Gabrielsen, Brigham Young University, Provo, UT

18 178.018 Describing a Methodology for Evaluating Robot-Assisted Intervention Using Eye-Tracking R. L. Beights, A. M. Mastergeorge, V. Jain and W. H. Dotson, Texas Tech University, Lubbock, TX

19 178.019 Developmental Trajectories of ADHD Symptoms in Infants at Risk for ASD L. Bell[1], M. Miller[2], A. Farquhar-Leicester[1], C. Ferguson[1], G. S. Young[3] and S. Ozonoff[3], (1)UC Davis MIND Institute, Sacramento, CA, (2)University of California, Davis, MIND Institute, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

20 178.020 Developmental Trajectories of Sex Differences in Negative Affect in Infants with FXS and at ASD Risk C. A. Wall and J. Roberts, Department of Psychology, University of South Carolina, Columbia, SC

21 178.021 Do Toddlers at Familial Risk for ASD Differ in Their Electrophysiological Responses to Known and Unknown Words? K. H. Finch[1], A. Seery[2], H. Tager-Flusberg[1] and C. A. Nelson[3], (1) Psychological and Brain Sciences, Boston University, Boston, MA, (2)New York University School of Medicine, New York, NY, (3)Boston Children's Hospital, Boston, MA

22 178.022 Does Dyadic Synchrony and Responsiveness in the First Year Inform Later Autism Diagnoses? A. J. Schwichtenberg[1], A. M. Kellerman[1], R. Abu-Zhaya[2], M. Miller[3], G. S. Young[3] and S. Ozonoff[3], (1)Purdue University, West Lafayette, IN, (2)Speech-Language and Hearing Sciences, Purdue University, West Lafayette, IN, (3)University of California, Davis, MIND Institute, Sacramento, CA

23 178.023 Does Eye-Tracking during Dynamic Videos Relate to Social Interactions in High-Risk Infants? A. M. Kellerman, D. S. Robinson, B. A. Jameyfield and A. J. Schwichtenberg, Purdue University, West Lafayette, IN

24 178.024 Early Adaptive Functioning Trajectories in Preschoolers with Autism Spectrum Disorders M. Franchini[1,2], E. Gentaz[2], N. Kojovic[1], H. Wood de Wilde[1], S. Eliez[3] and M. Schaer[1], (1)Developmental Imaging and Psychopathology Lab, University of Geneva, Geneva, Switzerland, (2)Sensorimotor, Affective and Social Development Unit, University of Geneva, Geneva, Switzerland, (3)Developmental Imaging and Psychopathology Lab, University of Geneva, Geneva, Switzerland, University of Geneva, Geneva, Switzerland

25 178.025 Early Detection for Risk of Autism Spectrum Disorder Using the Infant-Toddler Social and Emotional Assessment (ITSEA): A Prospective High-Risk Cohort Study S. Raza[1], L. A. Sacrey[2], L. Zwaigenbaum[3], S. E. Bryson[4], J. A. Brian[5], I. M. Smith[6], W. Roberts[7], P. Szatmari[8], T. Vaillancourt[9], C. Roncadin[10] and N. Garon[11], (1) University of Alberta, Edmonton, AB, Canada, (2)Autism Research Centre, Edmonton, AB, CANADA, (3)University of Alberta, Edmonton, AB, CANADA, (4)Dalhousie University, Halifax, NS, CANADA, (5) Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (6)Dalhousie University / IWK Health Centre, Halifax, NS, CANADA, (7) University of Toronto, Toronto, ON, CANADA, (8)Centre for Addiction and Mental Health, Toronto, ON, CANADA, (9)University of Ottawa, Ottawa, ON, CANADA, (10)Autism Spectrum Disorder Service, McMaster Children's Hospital - Hamilton Health Sciences, Hamilton, ON, CANADA, (11)Mount Allison University, Sackville, NB, CANADA

26 178.026 Early Gesturing As a Screener of Subsequent Language Ability in Infants at Risk for Autism Spectrum Disorder D. Tagavi[1,2], H. Tager-Flusberg[2] and C. A. Nelson[3], (1)Clinical Psychology, University of California, Santa Barbara, Santa Barbara, CA, (2)Psychological and Brain Sciences, Boston University, Boston, MA, (3)Boston Children's Hospital, Boston, MA

27 178.027 Early Predictors of Social Anxiety in 12-Month-Old Infant Siblings of Children with Autism Spectrum Disorder A. L. Hogan, S. L. O'Connor, N. S. Poupore, B. Tonnsen and J. Roberts, Department of Psychology, University of South Carolina, Columbia, SC

28 178.028 Elevated Levels of Glutamate in 4-6-Month-Old Infants at High Familial Risk of Autism Spectrum Disorders I. Pote[1,2], R. Dimitrova[1,2], J. Ciarrusta[1,2], E. Perry[2], V. Kangas[2], J. M. Allsop[1], E. Hughes[1], M. Fox[1], D. G. Murphy[2], S. M. McAlonan[2] and M. A. Rutherford[1], (1)Division of Imaging Sciences and Biomedical Engineering, Centre for the Developing Brain, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

Withdrawn

29 178.029 Examination of Developmental Sensitivity of Items on the Revised First Years Inventory Screener for Infants at Risk for a Later Diagnosis of ASD Y. J. Chen[1], V. L. Davis[2], L. R. Watson[1], E. Crais[1], L. Turner-Brown[3], J. C. Bulluck[1], W. Zhang[1], R. A. Faldowski[1] and G. T. Baranek[1], (1)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Department of Psychology, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

30 178.030 Examining Sex Differences in Adaptive Behavioral Development in High Risk Infants with ASD, Social Communicative Delay, and Typical Development E. Sharer[1], J. N. Constantino[2], K. Botteron[3], A. Estes[4], H. C. Hazlett[5], J. Piven[6], R. T. Schultz[7] and J. T. Elison[1], (1) University of Minnesota, Minneapolis, MN, (2)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (3)Washington University School of Medicine, St Louis, MO, (4)University of Washington Autism Center, Seattle, WA, (5)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (6)Carolina Institute for Developmental Disabilities, Carrboro, NC, (7) The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA

31 178.031 Exploring Positive Affect in a Randomized Control Trial of the Social ABCs Parent-Mediated Intervention for Toddlers with Confirmed or Suspected ASD J. A. Brian[1], E. M. Dowds[2], T. McCormick[3], S. Macwilliam[4], K. Lynch[5] and S. E. Bryson[6], (1)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (2)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Burlington, ON, Canada, (3)IWK Health Centre, Halifax, NS, CANADA, (4)IWK HEALTH CENTRE, HALIFAX, NS, CANADA, (5)Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, CANADA, (6)Dalhousie University, Halifax, NS, CANADA

32 178.032 Exploring Sex Differences in Autism Spectrum Disorder in the Charge Study M. White[1], C. W. Nordahl[2], K. Angkustsiri[3], R. Hansen[4], D. Harvey[5], I. Hertz-Picciotto[6] and D. J. Tancredi[7], (1)Pediatrics, UC Davis, Sacramento, CA, (2)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (3)University of California at Davis, Sacramento, CA, (4)UCD MIND Institute, Sacramento, CA, (5)Public Health Sciences, Division of Biostatistics, UC Davis, Davis, CA, (6)University of California at Davis, Davis, CA, (7)UC Davis School of Medicine, Sacramento, CA

33 178.033 Gender Differences in CSBS Scores S. James[1], E. C. Bacon[2], C. J. Smith[1] and K. Pierce[3], (1)Southwest Autism Research & Resource Center, Phoenix, AZ, (2)University of California San Diego, La Jolla, CA, (3)University of California, San Diego, San Diego, CA

34 178.034 How Frequent Is Loss of Skills in ASD Associated with Genetic Abnormalities? A. Thurm[1], S. L. Bishop[2], C. Farmer[1], S. J. Sanders[3], L. Soorya[4], L. Berry[5], C. P. Schaaf[6], M. A. Gillentine[7], A. Simon[5] and R. P. Goin-Kochel[8], (1)National Institute of Mental Health, Bethesda, MD, (2)Psychiatry, University of California San Francisco, San Francisco, CA, (3)UCSF, San Francisco, CA, (4)Rush University Medical Center, Chicago, IL, (5)Baylor College of Medicine, Houston, TX, (6) Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, (7)Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, (8)Pediatrics, Baylor College of Medicine, Houston, TX

35 178.035 IQ-Based Developmental Phenotypes of ASD Between Ages 2 and 7 Years and Their Correlates M. Solomon[1], A. M. Iosif[2], L. Libero[3], D. D. Li[4], L. Deprey[5], S. Ozonoff[3], S. J. Rogers[6], C. W. Nordahl[7], S. Ghetti[8] and D. G. Amaral[7], (1)MIND Institute, Sacramento, CA, (2)Public Health Sciences, University of California Davis, Davis, CA, (3)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA, (4)UC Davis MIND Institute, Rancho Cordova, CA, (5)University of California at Davis MIND Institute, Sacramento, CA, (6)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (7)Department of Psychiatry & Behavioral Sciences, University of California-Davis, Sacramento, CA, (8)Department of Psychology, University of California-Davis, Davis, CA

36 178.036 Infant Gaze to Faces Across Interactive Contexts D. N. Gangi[1], A. J. Schwichtenberg[2], A. M. Iosif[3], G. S. Young[4] and S. Ozonoff[4], (1)UC Davis MIND Institute, Sacramento, CA, (2)Purdue University, West Lafayette, IN, (3)Public Health Sciences, University of California Davis, Davis, CA, (4)Psychiatry and Behavioral Sciences, University of California, Davis, MIND Institute, Sacramento, CA

37 178.037 Insecure-Resistant Attachment Classification (and behaviors) in Infants Later Diagnosed with Autism Spectrum Disorder K. B. Martin[1], E. B. Prince[1], J. D. Haltigan[2], N. Ekas[3] and D. S. Messinger[4], (1)Psychology, University of Miami, Coral Gables, FL, (2) Psychology, Centre for Addiction and Mental Health, Toronto, ON, Canada, (3)Psychology, Texas Christian University, Fort Worth, TX, (4) Psychology, University of Miami, Miami, FL

38 178.038 Interactions Between Young Children with Autism Spectrum Disorder and Their Caregivers J. Obitko[1], C. Wong[2] and K. C. Gallagher[3], (1)FPG Child Development Institute, UNC Chapel Hill, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, Chapel Hill, NC, (3)FPG Child Development Institute, UNC - Chapel Hill, Chapel Hill, NC

39 178.039 Investigating the Construct Validity of the Social Communication Schedule for Young Children with Severe Visual Impairment ‹at Risk› of ASD: Relations with the Child Behaviour Checklist N. Dale[1], E. Sakkalou[1], M. O'Reilly[2] and A. Salt[3], (1)Clinical Neurosciences, UCL Great Ormond Street Institute of Child Health, London, United Kingdom, (2)UCL Institute of Child Health, London, UNITED KINGDOM, (3)Great Ormond Street Hospital for Children, London, UNITED KINGDOM

40 178.040 Preschool Peer Relationships in Younger Siblings of Children with ASD A. Estes[1], J. Munson[2], T. St. John[3], M. J. Guralnick[4], S. Dager[5], A. Rodda[2], H. C. Hazlett[6], K. Botteron[7], R. T. Schultz[8], J. Piven[9] and T. The IBIS Network[10], (1)Speech and Hearing Sciences, University of Washington Autism Center, Seattle, WA, (2)University of Washington, Seattle, WA, (3)University of Washington Autism Center, Seattle, WA, (4)Psychology and Pediatrics, University of Washington, Seattle, WA, (5)University of Washington School of Medicine, Seattle, WA, (6)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (7)Washington University School of Medicine, St Louis, MO, (8)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (9)Carolina Institute for Developmental Disabilities, Carrboro, NC, (10)University of NC, Chapel Hill, NC

41 178.041 Motor Delays in Infants and Toddlers with ASD and Social Communication Delay R. Landa[1] and M. Tahseen[2], (1)Kennedy Krieger Institute, Baltimore, MD, (2)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD

42 178.042 Mouse Model of Chd8 Haploinsufficiency Results in Altered Neuronal Proliferation and Megalencephaly A. Gompers[1], L. Su-Feher[2], J. Ellegood[3], T. W. Stradleigh[2], I. Zdilar[2], N. A. Copping[4], M. C. Pride[4], M. A. Riyadh[5], G. Kaushik[6], J. P. Lerch[7], B. Mannion[8], V. Azal[8], A. Visel[8], L. A. Pennacchio[8], D. Dickel[8], J. Crawley[9], K. Zarbalis[10], J. L. Silverman[11] and A. S. Nord[2], (1)University of California, Davis, Davis, CA, (2)Center for Neuroscience, Department of Neurobiology, Physiology, & Behavior, University of California, Davis, Davis, CA, (3)Hospital for Sick Children, Toronto, ON, CANADA, (4)UC Davis, Sacramento, CA, (5)University of California-Davis, sacramento, CA, (6)University of California-Davis, Sacrameto, CA, (7)Mouse Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada, (8)Lawrence Berkley Laboratories, Berkley, CA, (9)University of California, Sacramento, CA, (10)University of California Davis, Davis, CA, (11)MIND Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis School of Medicine, Sacramento, CA

43 178.043 Neurodevelopmental Consequences of Fetal Androgen Exposure Depend on Sex B. McKenna and J. Michaelson, Department of Psychiatry, University of Iowa, Iowa City, IA

44 178.044 Parent-Child Co-Regulation in Toddlers with ASD A. M. Dimachkie[1], A. Gulsrud[2], W. I. Shih[3] and C. Kasari[3], (1)Human Development and Psychology, UCLA, Los Angeles, CA, (2)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (3) University of California, Los Angeles, Los Angeles, CA

45 178.045 Perceptions of the Parenting Experience Among Caregivers of Toddlers: Comparison of ASD Risk and Non-Risk Groups R. A. Lindsey[1], L. K. Hansen[2], T. D. Barry[1], R. Sturner[3,4] and B. Howard[3,4,5], (1)Washington State University, Pullman, WA, (2)University of Southern Mississippi, Hattiesburg, MS, (3)Center for Promotion of Child Development through Primary Care, Baltimore, MD, (4)Johns Hopkins University School of Medicine, Baltimore, MD, (5)Total Child Health, Baltimore, MD

46 178.046 Physiological Measurements of Voice Quality in Children with Autism Using Electroglottography in Relation to Clinical Assessment Outcome S. Ghai and G. Ramsay, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

47 178.047 Positive Affect in Infants at High Risk for ASD: A Multimethod Longitudinal Analysis F. E. Kane-Grade, S. Macari, A. Milgramm, E. Hilton, P. Heymann and K. Chawarska, Yale Child Study Center, Yale University School of Medicine, New Haven, CT

48 178.048 Positive and Negative Affective Vocalizations in 2-Year-Olds with ASD S. Plate[1], J. Parish-Morris[2], J. Migliaccio[3], L. Bateman[4], J. L. Wood[2], R. F. Slomowitz[5], J. E. Maldarelli[5], S. Paterson[6], J. Pandey[5], N. Marrus[7], A. Estes[8], H. C. Hazlett[9], L. Zwaigenbaum[10], K. Botteron[11], S. Dager[12], J. Piven[13] and R. T. Schultz[5], (1)Bryn Mawr College, Bryn Mawr, PA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)James Madison University, Harrisonburg, VA, (4)The Center for Autism Research/CHOP, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Children's Hospital of Philadelphia, Philadelphia, PA, (7)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (8)University of Washington Autism Center, Seattle, WA, (9)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (10)University of Alberta, Edmonton, AB, CANADA, (11)Washington University School of Medicine, St Louis, MO, (12)University of Washington School of Medicine, Seattle, WA, (13)Carolina Institute for Developmental Disabilities, Carrboro, NC

49 178.049 Potential Neonatal Neurobehavioral Signs of ASD Risk in Premature Infants E. Tenenbaum[1,2], S. J. Sheinkopf[2,3,4,5], A. L. Salisbury[1,4,5], K. Hawes[1,4,5], L. M. Dansereau[1,5], R. Bigsby[1,4,5], A. Laptook[4,5], M. Taub[5], L. L. LaGasse[1,4,5], B. Vohr[4,5], J. Padbury[4,5] and B. M. Lester[1,2,4,5], (1)Brown Center for the Study of Children at Risk, The Warren Alpert Medical School of Brown University, Providence, RI, (2)Department of Psychiatry and Human Behavior, The Warren Alpert Medical School of Brown University, Providence, RI, (3)Brown Center for the Study of Children at Risk, Women and Infants Hospital, Providence, RI, (4)Pediatrics, The Warren Alpert Medical School of Brown University, Providence, RI, (5)Pediatrics, Women and Infants Hospital, Providence, RI

50 178.050 Predictors of Expressive Language Outcome over a Two Year Period in Very Young Pre-Verbal Children with ASD D. Oosting and A. S. Carter, University of Massachusetts Boston, Boston, MA

51 178.051 Preferential Attention to Audiovisual Synchrony Predicts Language Ability in Toddlers with ASD G. Ramsay[1], A. Abraham[2], J. B. Northrup[3], D. Lin[4], A. Klin[1] and W. Jones[1], (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Vanderbilt University School of Medicine, Nashville, TN, (3)University of Pittsburgh, Pittsburgh, PA, (4)Brigham and Women's Hospital & Massachusetts General Hospital, Boston, MA

52 178.052 Prelinguistic Predictors of 24-Month Expressive Language for Infants at High-Risk for ASD J. Bradshaw[1], S. Gillespie[2], N. Brane[3], M. Lewis[3], C. Klaiman[1] and C. A. Saulnier[4], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Emory University School of Medicine, Atlanta, GA, (3)Marcus Autism Center, Atlanta, GA, (4)Children's Healthcare of Atlanta, Emory University, Marcus Autism Center, Atlanta, GA

53 178.053 Longitudinal Examination of Head Control in Infants at High- and Low-Risk for Autism Spectrum Disorder from Two to Six Months S. Carpenter[1], L. Evans[1], C. Beacham[1], C. Klaiman[2] and J. Bradshaw[2], (1) Marcus Autism Center, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

54 178.054 Self-Regulation and Attention from 1-Week to 2-Months of Age in Infants at High- and Low-Risk for ASD L. Evans[1], S. Carpenter[1], C. Beacham[1], S. Gillespie[2] and J. Bradshaw[3], (1)Marcus Autism Center, Atlanta, GA, (2)Emory University School of Medicine, Atlanta, GA, (3) Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA

55 178.055 Prevalence of Four Types of Feeding Problems in Children Under Three with ASD Compared to Children with Language Delay P. Towle[1], L. Seiverling[2], H. Hendy[3] and J. Pantelides[4], (1) Westchester Insitute for Human Development, Valhalla, NY, (2) Psychology, St Mary's Hospital for Children, Bayside, NY, (3)Penn State University, Schuylkill, PA, (4)Penn State University, State College, PA

56 178.056 Re-Examining Measures of Risk in the Study of Autism Spectrum Disorder in Infancy R. Burger-Caplan[1,2], A. Klin[3] and W. Jones[3], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)Psychology, Emory University, Atlanta, GA, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

57 178.057 Removal of Electronic Screen Media Viewing in Young Children with ASD: Case Reports K. F. Heffler[1], L. R. Frome[2] and D. F. Gullo[3], (1)Ophthalmology, Drexel University, Philadelphia, PA, (2) INVO, York, PA, (3)Drexel University School of Education, Philadelphia, PA

58 178.058 Preserved Play in Females at High Risk for ASD Across the Range of Symptom Severity E. Hilton[1], P. Heymann[2], S. Macari[2], A. Milgramm[2], F. E. Kane-Grade[3] and K. Chawarska[2], (1)Yale Child Study Center, New Haven, CT, (2)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (3)Yale child Study Center, New Haven, CT

59 178.059 Sex Differences in Parental First Concerns for Children Screened at-Risk for ASD R. K. Ramsey[1], L. Nichols[1], N. N. Ludwig[1], D. A. Fein[2], L. B. Adamson[1] and D. L. Robins[3], (1)Georgia State University, Atlanta, GA, (2)Psychological Sciences, University of Connecticut, Storrs, CT, (3)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA

60 178.060 Sex Differences in Young Children Referred for Autism Spectrum Disorder C. C. Bradley[1], L. A. Carpenter[1], Z. Warren[2], C. Lajonchere[3], J. Park[1], A. D. Boan[1] and S. M. Kanne[4], (1)Medical University of South Carolina, Charleston, SC, (2)Vanderbilt University, Nashville, TN, (3)UCLA Institute for Precision Health, Los Angeles, CA, (4)Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO

61 178.061 Social Responsiveness at 12 and 15 Months Predicts Severity of Social Deficits at 4 Years in Infant Siblings A. C. Dowd[1], B. G. Davidson[2] and A. R. Neal-Beevers[1], (1)University of Texas at Austin, Austin, TX, (2)Pediatrics, University of Miami Miller School of Medicine, Miami, FL

62 178.062 Stability of Temperament in Children with Autism Spectrum Disorder, Developmental Delays, and Typical Development: A Brief Longitudinal Study N. M. Reyes[1], C. E. Walsh[2], G. N. Soke[3] and S. Hepburn[4], (1)Box C-234, University of Colorado - Denver, Aurora, CO, (2)Developmental Pediatrics, University of Colorado School of Medicine, Aurora, CO, (3)Centers for Disease Control and Prevention, Atlanta, GA, (4)University of Colorado / JFK Partners, Aurora, CO

63 178.063 Studying Heart Rate Differences during Social Stimuli in Infants at Risk for ASD and ADHD T. Bazelmans[1], S. Greve[1], T. Charman[2], E. Jones[3] and M. H. Johnson[4], (1)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Birkbeck, University of London, London, UNITED KINGDOM, (4)Centre for Brain and Cognitive Development, Birkbeck University of London, London, United Kingdom

64 178.064 Studying Symptom Onset and Intervention for Infant Siblings of Children Diagnosed with Autism T. D. Graupner and G. Sallows, Wisconsin Early Autism Project, Madison, WI

65 178.065 Systematic Review of Comorbid Symptomatology and Challenging Behaviors in Infants and Toddlers with Autism Spectrum Disorder T. L. Benninger[1] and A. N. Witwer[2], (1)Psychology, The Ohio State University, Columbus, OH, (2)Nisonger Center, The Ohio State University, Columbus, OH

66 178.066 Tactile Sensory Gating in Infant Siblings of Children with ASD or ADHD and Age-Matched Controls E. S. Piccardi, M. H. Johnson and T. Gliga, Centre for Brain and Cognitive Development, Birkbeck University of London, London, United Kingdom

67 178.067 Temperament As a Predictor of Anxiety in High-Risk Infants J. Ezell[1], S. M. Matherly[1], K. E. Caravella[1] and J. Roberts[2], (1) University of South Carolina, Columbia, SC, (2)Department of Psychology, University of South Carolina, Columbia, SC

68 178.068 The Guided Participation Relationship and Parental Tutoring Strategies in Preschoolers with Autism. J. A. Hobson[1], E. Kirk[2], F. Larkin[3], L. Hollaway[4], M. Garlington[5] and J. A. Moore[6], (1)Sonoma State University, Santa Rosa, CA, (2)Department of Psychology, University of York, York, United Kingdom, (3)Department of Psychology, University of York, York, UNITED KINGDOM, (4)Pediatrics Plus, Little Rock, AR, (5) Pediatrics Plus, Conway, AR, (6)University of Central Arkansas, Conway, AR

69 178.069 The Quantitative Checklist for Autism in Toddlers (QCHAT): Validation of a Screening Instrument in Italy. L. Ruta[1,2], G. M. Arduino[3], F. Apicella[2], E. Leonardi[4], R. Maggio[4], N. Chericoni[2], V. Costanzo[2], N. Turco[3], A. Gagliano[4], F. Chiarotti[5], G. Pioggia[1], C. Allison[6], S. Baron-Cohen[6] and F. Muratori[2], (1)Institute of Applied Sciences and Intelligent Systems, "Eduardo Caianiello", National Research Council of Italy, Messina, Italy, (2)IRCCS Stella Maris Scientific Institute, Pisa, Italy, (3)Centro Autismo e Sindrome di Asperger ASLCN1, Mondovì, Italy, (4) University of Messina, Messina, Italy, (5)Department of Cell Biology and Neuroscience, National Institute of Health, Rome, Italy, (6)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

70 178.070 The Relationship of Early Childhood Characteristics to Autism Severity at School Age P. Towle[1] and N. Turygin[2], (1)Westchester Insitute for Human Development, Valhalla, NY, (2)Behavioral Psychology, Westchester Institute for Human Development, Valhalla, NY

71 178.071 To Help or Not to Help: Prosocial Motivation in Children at Risk for Autism Spectrum Disorder E. Demurie, P. Warreyn, C. Bontinck and H. Roeyers, Department of Experimental-Clinical and Health Psychology, Ghent University, Ghent, Belgium

72 178.072 To Test or Not to Test: Parents› Perspectives on Infant Sibling Studies in Autism Spectrum Disorders S. Achermann[1], S. Bolte[2] and T. Falck-Ytter[3], (1)Psychology, Uppsala University, Uppsala, Sweden, (2)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (3)Dept of Psychology, Uppsala University, Uppsala, Sweden

73 178.073 Trajectories of Cognitive Development in Toddlers at-Risk for Autism Due to Language Delays L. Henry[1], C. Farmer[1], L. B. Swineford[2], S. S. Manwaring[3] and A. Thurm[1], (1)National Institute of Mental Health, Bethesda, MD, (2)Washington State University, Spokane, WA, (3)University of Utah, Salt Lake City, UT

74 178.074 Trajectories of Focused Attention in Infancy Predict ASD and ADHD Symptoms at Age 3 Years. A. Hendry[1], E. Jones[2], T. Charman[3], M. H. Johnson[4] and T. B. Team[5], (1)King's College London, London, UNITED KINGDOM, (2)Birkbeck, University of London, London, UNITED KINGDOM, (3)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4) School of Psychology, Birkbeck College, London, United Kingdom, (5) Birkbeck College London, London, United Kingdom

75 178.075 Treating Autism Symptoms in Infancy through Parent-Mediated Intervention A. Tanner, Education, Queen's University Belfast, Vancouver, BC, Canada

76 178.076 Utilising Technology for the Early Detection of Autism: Introducing Asdetect, an Early Detection Mobile Application for Caregivers J. Barbaro and N. Kolivas, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

77 178.077 Visual Attention Patterns in Toddlers with and without Autism S. Zheng[1], K. Hume[2] and L. Turner-Brown[3], (1)University of North Carolina at Chapel Hill, Carrboro, NC, (2)University of North Carolina, Chapel HIll, Carrboro, NC, (3)UNC TEACCH Autism Program, University of North Carolina at Chapel Hill, Carrboro, NC

78 178.078 Visual Local - Global Processing in 3 - Year Old at Risk Siblings with and without Diagnosis and Typically Developing Children E. Nilsson Jobs[1], T. Falck-Ytter[2,3] and S. Bolte[4], (1)Uppsala University, Uppsala, SWEDEN, (2)Psychology, Uppsala Universitet, Box 1225, Uppsala, SWEDEN, (3)KIND (Center of Neurodevelopmental Disorders), Karolinska Institutet, Stockholm, Sweden, (4)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden

79 178.079 Visual Search Cancellation and Autism Symptoms: What Young Children Search for and Co-Occurring ADHD Matter B. R. Doherty[1], T. Charman[2], M. H. Johnson[3], G. Scerif[1] and T. Gliga[3], (1) University of Oxford, Oxford, United Kingdom, (2)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (3)Centre for Brain and Cognitive Development, Birkbeck University of London, London, United Kingdom

80 178.080 When High-Risk 2-Year-Olds without ASD Talk the Most J. Migliaccio[1], J. Parish-Morris[2], S. Plate[3], L. Bateman[4], J. L. Wood[2], R. F. Slomowitz[5], J. E. Maldarelli[5], J. Pandey[5], M. R. Swanson[6], S. Paterson[7], N. Marrus[8], A. Estes[9], H. C. Hazlett[10], L. Zwaigenbaum[11], K. Botteron[12], S. Dager[13], J. Piven[14] and R. T. Schultz[5], (1)James Madison University, Harrisonburg, VA, (2)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Bryn Mawr College, Bryn Mawr, PA, (4)The Center for Autism Research/CHOP, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Carrboro, NC, (7) Children's Hospital of Philadelphia, Philadelphia, PA, (8)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (9)University of Washington Autism Center, Seattle, WA, (10)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (11)University of Alberta, Edmonton, AB, CANADA, (12)Washington University School of Medicine, St Louis, MO, (13)University of Washington School of Medicine, Seattle, WA, (14) Carolina Institute for Developmental Disabilities, Carrboro, NC

81 178.081 Variation in Social Visual Engagement - a Putative Autism Endophenotype - Reflects Stringent Genetic Control in Early Childhood S. Kennon-McGill[1], N. Marrus[1,2], C. Weichselbaum[3], A. Klin[4,5,6], W. Jones[4,5,6] and J. N. Constantino[1,2,7], (1)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (2)Intellectual and Developmental Disabilities Research Center, Washington University, St. Louis, MO, (3)Psychiatry and Genetics, Washington University School of Medicine, St. Louis, MO, (4)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (5)Center for Translational Social Neuroscience, Emory University, Atlanta, GA, (6)Department of Pediatrics, Emory University School of Medicine, Atlanta, GA, (7)Department of Pediatrics, Washington University School of Medicine, St. Louis, MO

## Poster Session
179 - Family Issues and Stakeholder Experiences II
12:00 PM - 1:40 PM - Golden Gate Ballroom

82 ▸ 179.082 "Luchando Por Ellos:" Understanding Beliefs about ASD from First Generation, Mexican Parents S. R. Cohen[1], J. Miguel[2] and M. Shaner[2], (1)University of California - San Diego, La Jolla, CA, (2)UC San Diego, La Jolla, CA

83 ▸ 179.083 A Peer-Support Group for Typically Developing Siblings of Individuals with ASD in India D. Taneja and S. P. K. Jena, Applied Psychology, Delhi University, New Delhi, India

84 179.084 AIRB3: Measuring Collaborative Networks Among Parents and Autism Intervention Providers during the Pre-Transition Period. E. McGhee Hassrick[1], K. M. Carley[2], N. R. Tomy[1], J. Chow[3], L. Hauptman[3], B. Bronstein[4], D. S. Mandell[4], A. C. Stahmer[5] and C. Kasari[6], (1)A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA, (2)Carnegie Mellon University, Pittsburgh, PA, (3)University of California Los Angeles, Los Angeles, CA, (4)University of Pennsylvania, Philadelphia, PA, (5)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (6)University of California, Los Angeles, Los Angeles, CA

85 179.085 ASD Symptom Severity Moderates the Relationship Between Child Externalizing Behavior and Maternal Stress D. Janvier[1], M. O'Brien[1], E. Kang[2], M. D. Lerner[2] and M. Tudor[3], (1)Psychology, Stony Brook University, Stony Brook, NY, (2)Stony Brook University, Stony Brook, NY, (3)Yale Child Study Center, New Haven, CT

86 179.086 Acceptance or Forever Seeking Answers ? Adaptive and Maladaptive Responses to Having a Child with ASD N. S. Da Paz[1], B. Siegel[2] and E. Epel[1], (1)Psychiatry, University of California, San Francisco, San Francisco, CA, (2)Autism Center of Northern California, San Francisco, CA

87 179.087 Acceptance or Forever Seeking Answers? Adaptive and Maladaptive Reactions to Your Child with ASD N. S. Da Paz[1] and E. Epel[2], (1)University of California, San Francisco, San Francisco, CA, (2)Psychiatry, University of California, San Francisco, San Francisco, CA

88 ▸ 179.088 Access to Autism Information and Services for Korean American Families of Children with ASD H. S. Lee[1], E. Cho[2], A. C. Stahmer[3] and C. Kasari[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)California State University, Sacramento, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

89 179.089 An Exploratory Study of the Impact of Autism Traits on Parenting C. Dissanayake[1], A. L. Richdale[2], N. Kolivas[2] and L. Pamment[3], (1)Olga Tennison Autism Research Centre, Bundoora, Australia, (2) Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, La Trobe University, Bundoora, Australia

90 179.090 Anxiety and Depression in Chinese Parents of Children with Autism Spectrum Disorder (ASD) M. Uljarevic[1], X. Su[2] and R. Y. Cai[3], (1)Bundora Campus, La Trobe University, Melbourne, VIC, Australia, (2)Department of Special Education, East China Normal University, Shanghai, China, (3)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

91 179.091 Assessing Predictors of Perceived Utility of Biological Testing Among Parents of a Child with Autism A. Yusuf[1], I. Peltekova[1], R. Bruno[2], J. Frei[3] and M. Elsabbagh[4], (1)McGill University, Montreal, QC, CANADA, (2)Research Institute of the McGill University Health Centre, Montreal, QC, CANADA, (3)McGill University, Montreal, QC, Canada, (4) McGill University, Montreal, CANADA

92 179.092 Assessment of Community Participation and Self-Determination As Outcomes of Transition for Youth and Young Adults with ASD J. Boloor[1], W. H. Wong[2], M. W. Jackson[3], J. A. Findley[2] and L. A. Ruble[2], (1)Educational, School and Counseling Psychology, University of Kentucky, Lexington, KY, (2)University of Kentucky, Lexington, KY, (3)University of Kentucky, Winchester, KY

93 179.093 Associations Between Understanding of ASD and Perceptions of the Sibling Relationship M. Coffman[1], N. Kelso[2], L. Antezana[1], M. L. Braconnier[3], J. A. Richey[4] and J. Wolf[3], (1)Virginia Tech, Blacksburg, VA, (2)William Patterson University, Wayne, NJ, (3)Yale Child Study Center, New Haven, CT, (4)Virginia Tech, Blackbsurg, VA

94 179.094 Autism Spectrum Disorder Traits and Parental Stress: The Moderating Role of Parental Self-Efficacy R. S. Factor[1,2], D. Swain[1,2] and A. Scarpa[1,2], (1)Virginia Tech, Blacksburg, VA, (2)Virginia Tech Center for Autism Research, Blacksburg, VA

95 179.095 Barriers and Facilitators to Physical Activity in Families Who Have a Child with ASD J. Blagrave[1] and M. Foester[2], (1)California State University, Chico, Chico, CA, (2)Kinesiology, California State University, Chico, Chico, CA

96 179.096 Barriers to Technology Inclusion: Teens with ASD and Typically-Developing Peers C. A. Cohen and A. R. Marvin, Kennedy Krieger Institute, Baltimore, MD

97 179.097 Behaviour Problems and ASD Characteristics Predict Parent Competency and Caregiver Strain B. Thompson[1], M. Moretti[2] and G. Iarocci[3], (1)Autism Developmental Disorder Lab, Burnaby, BC, CANADA, (2)Simon Fraser University, Burnaby, BC, Canada, (3)Simon Fraser University, Burnaby, BC, CANADA

98 179.098 Being a Spectrum Mother: A Mixed Methods Study C. Stewart[1], J. J. Long[1], C. Tait[1] and B. Auyeung[2,3], (1)Scottish Autism, Dunfermline KY12 7TL, United Kingdom, (2)University of Edinburgh, Edinburgh, United Kingdom, (3)Autism Research Centre, Cambridge, United Kingdom

99 179.099 Beliefs about Causes of Autism and Current Vaccine Hesitancy: Comparisons Across FOUR Parent Groups R. P. Goin-Kochel[1,2], S. S. Mire[3], L. Berry[1,2], L. R. Dowell[1,2], C. G. Minard[1], L. C. Sahni[4], R. M. Cunningham[4] and J. A. Boom[4], (1)Baylor College of Medicine, Houston, TX, (2)Autism Center, Texas Children's Hospital, Houston, TX, (3)Psychological, Health, & Learning Sciences, University of Houston, Houston, TX, (4)Immunization Project, Texas Children's Hospital, Houston, TX

100 179.100 Broader Autism Phenotype and Perceived Social Support As They Relate to Pro-Social Behavior in Typically Developing Siblings of Children with Autism Spectrum Disorder L. K. Baker[1], T. Tomeny[2] and T. D. Barry[3], (1)University of Alabama, Tuscaloosa, AL, (2)The University of Alabama, Tuscaloosa, AL, (3)Washington State University, Pullman, WA

101 179.101 Caregivers' Voices Regarding Implementation of a Parent-Mediated Early Intervention for Toddlers with ASD J. Amsbary[1], S. L. Odom[2], H. Schertz[3], K. Baggett[4] and H. Able[5], (1)UNC Chapel Hill, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, NC, (3) Indiana University, Bloomington, IN, (4)University of Kansas, Kansas City, KS, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC

102 179.102 Challenges for Females with Autism: A Parental Perspective M. Mademtzi[1], K. Koenig[1], F. Shic[2], C. Foster[1], S. Valencia[1] and P. Singh[3], (1)Yale Child Study Center, New Haven, CT, (2)Seattle Children's Research Institute, Seattle, WA, (3)Yale School of Public Health, Yale University, New Haven, CT

103 179.103 Characteristics, Needs and Outcomes of People with ASD Receiving Medicaid-Funded Long-Term Supports and Services (LTSS) While Living in the Home of a Family Member S. A. Larson and L. Lahti Anderson, Institute on Community Integration, University of Minnesota, Minneapolis, MN

104 179.104 Characterizing the Representation of and Conversation about ASD Treatments on Twitter J. Lee, Y. Stern, J. Felkey, G. Garcia, E. Mason, A. Strunk and M. Roberts, Northwestern University, Evanston, IL

105 179.105 Childhood Victimization in a National Sample of Youth with Autism Spectrum Disorders R. Pfeffer, Criminal Justice, University of Houston - Downtown, Houston, TX

106 179.106 Comorbid Anxiety Disorders in Young Children with ASD: Parent and Teacher Report E. Llanes[1] and J. Blacher[2], (1)University of California, Riverside, Riverside, CA, (2)University of California - Riverside, Riverside, CA

107 ▸ 179.107 Comparing Methods to Increase Participation in Spanish Language ASD Parent Training E. Rotheram-Fuller and K. S. Turner, Arizona State University, Tempe, AZ

108 179.108 Comparing Parent to Student Report Regarding Technology Use By Adolescents with Autism in School and Home Settings M. Ledoux[1], T. Regan[2] and S. Hedges[3], (1)San Diego State University, San Diego, CA, (2)UNC-Chapel Hill, Chapel Hill, NC, (3)UNC Chapel Hill, Chapel Hill, NC

109 179.109 Compassion Meditation for Therapists of Individuals with ASD: Effects on Stress and Cultural Competence K. Tang[1,2], S. Fernandez-Carriba[1], C. A. Saulnier[3] and A. Klin[4], (1)Marcus Autism Center, Children's Healthcare of Atlanta, Emory University, Atlanta, GA, (2)University of Notre Dame, South Bend, IN, (3)Children's Healthcare of Atlanta, Emory University, Marcus Autism Center, Atlanta, GA, (4)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

110 179.110 Cross-Sectional Comparison of IEP Quality for Transition Age Youth with ASD and Young Children with ASD J. A. Findley[1], W. H. Wong[1], A. D. Rodgers[1], M. W. Jackson[2] and L. A. Ruble[1], (1)University of Kentucky, Lexington, KY, (2)University of Kentucky, Winchester, KY

111 179.111 Defining Stress and Crisis As Experienced By Parents of Children with Autism Navigating Intervention: Sub-Analysis of a Qualitative Study S. J. Gentles[1], D. B. Nicholas[2], S. M. Jack[3], A. McKibbon[4] and P. Szatmari[5], (1)CanChild Centre for Childhood Disability Research, McMaster University, Hamilton, ON, Canada, (2) University of Calgary, Edmonton, AB, CANADA, (3)School of Nursing, McMaster University, Hamilton, ON, Canada, (4)Clinical Epidemiology & Biostatistics, McMaster University, Hamilton, ON, Canada, (5)Centre for Addiction and Mental Health, Toronto, ON, CANADA

112 179.112 Description and Outcomes of a Parent Education Package in the Context of a Comprehensive Applied Behavior Analysis Early Intervention Program J. Sigesmund[1] and M. A. Minjarez[2], (1)Autism Center, Seattle Children's Hospital, Seattle, WA, (2)Seattle Children's Autism Center, Seattle, WA

113 179.113 Development of a Standardized Protocol for Food Preference Assessment in Autism through Direct Observation. E. Grossi, S. Melli and M. Norsi, Villa Santa Maria scs, Tavernerio, Italy

114 179.114 Do Aggressive Behaviors Accumulate or Exchange over Time? P. Hickey[1], S. M. Attar[1], A. Walsh[1] and E. Hanson[2], (1)Boston Children's Hospital, Boston, MA, (2)Children's Hospital Boston, Boston, MA

115 179.115 Does Parent Training Have an Effect on Perceived Parenting Competence and Family Life Impairment? the Effects of Parent Training and Ongoing Education on PSOC and Flis Scores V. Nanclares-Nogues[1] and Y. Waddell[2], (1)Advocate Illinois Masonic Medical Center, Chicago, IL, (2)Pediatric Developmental Center, Advocate Illinois Masonic Medical Center, Chicago, IL

116 179.116 Effectiveness of the Military Spouse Online Autism Relocation Readiness Mentor Training Program J. M. Davis Kremkow[1,2] and E. H. Finke[3], (1)CSD, Elmhurst College, Chicago, IL, (2)Elmhurst College, Chicago, IL, (3)Pennsylvania State University, University Park, PA

117 179.117 Effects of Parent Training Program for Caregivers of Young Children with Autism Spectrum Disorders (ASD) T. Takezawa[1], T. Yoshikawa[2] and M. Inoue[3], (1)Institute for Developmental Research, Aichi Human Service Center, Kasugai, Aichi, Japan, (2)Child and Adolescent Psychiatry, Central Hospital, Aichi Human Service Center, Kasugai, Aichi, Japan, (3)Tottori University, Yonago, Tottori, JAPAN

118 179.118 Effects of a Psychoeducational Group on Siblings of Children with ASD N. W. Buerger[1], L. Tuesday Heathfield[2] and J. Kircher[3], (1)Department of Psychiatry, Univeristy of Utah Medical School, Salt Lake City, UT, (2)Educational Psychology, Univeristy of Utah/Canyons School District, Salt Lake City, UT, (3)Educational Psychology, University of Utah, Salt Lake City, UT

119 ▸ 179.119 Engaging Under-Resourced Parents of Children with ASD in Service Uptake: Using Qualitative Research to Inform Interventions D. Straiton[1], S. Iadarola[2], J. Smith[3], M. Pellecchia[1], A. C. Stahmer[4], A. Gulsrud[5] and C. Kasari[6], (1)University of Pennsylvania, Philadelphia, PA, (2)University of Rochester Medical Center, Fairport, NY, (3)University of California Los Angeles, Los Angeles, CA, (4)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (5) UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (6)University of California, Los Angeles, Los Angeles, CA

120 ▸ 179.120 Enrollment in Early Intervention Associated with Increased Parental Stress in a Large Cohort of Parents of Young Children at Risk for Autism Spectrum Disorder S. broder-Fingert[1], J. M. Sandler[2], A. Bennett[3], M. Augustyn[4], C. Weitzman[5], S. Keys[6], M. Credle[5], M. Abraham[6] and E. Feinberg[7], (1)Boston University, Boston, MA, (2)Community Health Sciences, Boston University, Boston, MA, (3) Children's Hospital of Philadelphia, Philadelphia, PA, (4)Boston University School of Medicine, Boston, MA, (5)Yale University School of Medicine, New Haven, CT, (6)Childrens Hospital of Philadelphia, Philadelphia, PA, (7)BU School of Public Health, Boston, MA

121 179.121 Evaluating the Social Validity of PEERS® for Young Adults, Teens, and Preschoolers in a Clinical Replication T. Glavin[1], R. M. Klinkel[1], T. Rooney[1], K. Ankenman[1], W. Ence[1] and G. L. Lyons[2], (1) STAR Center for ASD and NDDs, University of California San Francisco, San Francisco, CA, (2)Psychiatry, STAR Center, UCSF, San Francisco, CA

122 ▸ 179.122 Examination of Current Needs for ASD Specific Services in Saudi Arabia R. Alrajhi[1] and D. Dimitriou[2], (1)Lifespan Learning and Sleep Lab, Institute of Education UCL, London, United Kingdom, (2)UCL, Institute of Education, London, England, United Kingdom

123 179.123 Experiences of Middle School Children with Autism Spectrum Disorders in Adapted Physical Education J. Blagrave, California State University, Chico, Chico, CA

124 ▸ 179.124 Experiences of Parents and Providers of ASD Services in Underserved California Communities J. Smith[1], A. Osuna[2], I. Becerra[2], S. F. Vejnoska[3] and C. Kasari[2], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)UC Davis MIND Institute, Sacramento, CA

125 179.125 Experiences of Sex Education and Sexual Awareness in Young Adults with Autism Spectrum Disorder S. Stagg[1] and L. Hannah[2], (1)Anglia Ruskin University, Cambridge, UNITED KINGDOM, (2)Psychology, Anglia Ruskin University, Cambridge, United Kingdom

126 179.126 Exploring How US High School Students with Autism Are Using Social Media S. Hedges[1], S. Kucharczyk[2] and S. L. Odom[3], (1) UNC Chapel Hill, Chapel Hill, NC, (2)Curriculum & Instruction, University of Arkansas, Fayetteville, AR, (3)University of North Carolina, Chapel Hill, NC

127 ▸ 179.127 Exploring Perceptions and Experiences of Autism in a UK Somali Community: A Qualitative Study F. Fox[1], N. Aabe[2], S. Redwood[1] and D. Rai[3], (1)NIHR CLAHRC West, Bristol, United Kingdom, (2)Autism Independence, Bristol, United Kingdom, (3)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom

128 179.128 Exploring the Components of Stress Responses in Parents of Children with and without ASD D. Swain, R. S. Factor and A. Scarpa, Virginia Tech, Blacksburg, VA

129 179.129 Factors Associated with Participation in Extracurricular Activities in Adolescents with and without Asd from an Australian Representative Cohort. F. Lami[1,2], T. May[1,2], K. Williams[1,2,3] and R. Conroy[2,4,5], (1)Paediatrics, The University of Melbourne, Parkville, VIC, Australia, (2)Murdoch Childrens Research Institute, Parkville, VIC, Australia, (3)Developmental Medicine, The Royal Children's Hospital, Parkville, VIC, Australia, (4)Psychology Service, The Royal Children Hospital, Melbourne, Parkville, VIC, Australia, (5)School of Psychological Sciences, The University of Melbourne, Melbourne, VIC, Australia

130 179.130 Factors Impacting Parental Belief of an Autism Spectrum Disorder Diagnosis Pre-Evaluation M. H. Pinkett-Davis[1], V. Singh[2] and R. Landa[2], (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)Kennedy Krieger Institute, Baltimore, MD

131 ▸ 179.131 Factors That Drive Access to Services for Children with Neurodevelopmental Disorders in Low Income Populations M. D. Powers[1], K. Tiplady[1], B. J. Anthony[2], L. Kenworthy[1], A. D. Verbalis[1], C. K. Kraper[1], D. Limon[1], S. Seese[1], J. Safer-Lichtenstein[2], M. F. Skapek[1] and L. G. Anthony[1], (1)Children's National Health System, Washington, DC, (2)Center for Child and Human Development, Georgetown University, Washington, DC

132 179.132 Family Daily Hassles and School Variables in Typically-Developing Siblings of Children with Autism Spectrum Disorder T. A. Hassenfeldt[1] and A. Scarpa[2], (1)Marcus Autism Center, Emory School of Medicine, Atlanta, GA, (2)Virginia Tech, Blacksburg, VA

133 ▸ 179.133 Family Needs and Related Factors for Parents of Children with Autism Spectrum Disorder during Transition to Middle School C. C. Chao[1], I. H. D. Wu[2], Y. W. Hsiao[3] and H. N. Chen[1], (1) Psychology and Counseling, University of Taipei, Taipei, Taiwan, (2) Special Education, University of Taipei, Taipei, Taiwan, (3)Center for Teacher Education and Career Development, University of Taipei, Taipei, Taiwan

134 ▸ 179.134 Family Perceptions of Community Autism Spectrum Disorder Stigma: Measure Validation and Ecological Associations K. Zuckerman[1], O. J. Lindly[2], N. M. Reyes[3], A. E. Chavez[4], K. Macias[5], M. Cobian[6], A. M. Reynolds[7] and K. Smith[8], (1)Division of General Pediatrics, Oregon Health & Science University, Portland, OR, (2)College of Public Health and Human Sciences, School of Social and Behavioral Health Sciences, Oregon State University, Corvallis, OR, (3)University of Colorado - Denver, Aurora, CO, (4)Oregon Health & Science University, Portland, OR, (5)Department of Pediatrics, Children's Hospital Los Angeles, Los Angeles, CA, (6)Pediatrics, Oregon Health and Science University, Portland, OR, (7)University of Colorado Denver, Aurora, CO, (8)Children's Hospital Los Angeles, Pasadena, CA

135 179.135 Family Quality of Life: Impact of Parent Understanding and Perceptions of Autism Spectrum Disorder. A. Villagomez[1], H. M. Crain[1], S. Hepburn[2] and E. McMahon Griffith[3], (1)Developmental Pediatrics, Children's Hospital Colorado, Aurora, CO, (2)University of Colorado / JFK Partners, Aurora, CO, (3)University of Colorado School of Medicine, Aurora, CO

136 179.136 How Do We Study Autism As Neurodiversity?: A Review of Theoretical Perspectives, Empirical Findings, and Implications for Future Research A. McVey, H. K. Schiltz and A. V. Van Hecke, Marquette University, Milwaukee, WI

137 179.137 Maternal Emotion Socialization and Child Problem Behaviours in an Autism Spectrum Disorder Population: The Role of the Broad Autism Phenotype and Distress M. I. Duffett[1], F. Beiti[2] and K. Babb[2], (1)Psychology, University of Windsor, Windsor, ON, CANADA, (2)Psychology, University of Windsor, Windsor, ON, Canada

138 ▸ 179.138 Maternal Poor Sleep of Children with ASD in Saudia Arabia and UK W. A. Bin Eid[1] and D. Dimitriou[2], (1)Lifespan Learning and Sleep Lab, Institute of Education UCL, London, United Kingdom, (2)UCL, Institute of Education, London, United Kingdom

139 179.139 Maternal Sleep Problems and Depression of Children with ASD W. A. Bin Eid[1] and D. Dimitriou[2], (1)Lifespan Learning and Sleep Lab, Institute of Education UCL, London, United Kingdom, (2)UCL, Institute of Education, London, England, United Kingdom

140 179.140 Measures of Treatment Fidelity and Social Validity within a Parent-Mediated Behavior Intervention A. D. Rodgers[1], L. A. Ruble[1], G. M. Kuravackel[2], A. P. Ables[3] and R. J. Reese[4], (1) University of Kentucky, Lexington, KY, (2)University of Louisville, Louisville, KY, (3)University of Louisville Autism Center, University of Louisville, Louisville, KY, (4)Educational, School and Counseling Psychology, University of Kentucky, Lexington, KY

141 179.141 Multi-Informant Assessment of Typically-Developing Sibling Psychological Functioning: Pitfalls of Single-Informant Assessment J. A. Rankin[1], C. A. Paisley[2], L. K. Baker[2], T. Tomeny[1] and T. D. Barry[3], (1)The University of Alabama, Tuscaloosa, AL, (2)University of Alabama, Tuscaloosa, AL, (3)Washington State University, Pullman, WA

142 179.142 Narratives about the Transition to Adulthood: Parent and Adolescent Differences in Visions of the Future A. V. Kirby[1], S. Wright[1], M. L. Diener[2], C. Wright[1] and C. Taylor[1], (1)University of Utah, Salt Lake City, UT, (2)Family & Consumer Studies, University of Utah, Salt Lake City, UT

## Poster Session

180 - International and Cross-Cultural Perspectives
12:00 PM - 1:40 PM - Golden Gate Ballroom

143 ▸ 180.143 'Reading the Mind in the Eyes' in Bengali Populations in India and England: Assaying Effects of Language and Culture M. M. Halder[1] and M. K. Belmonte[2], (1)Nottingham Trent University, Nottingham, United Kingdom, (2)Com DEALL Trust, Bangalore, INDIA

144 ▸ 180.144 A Cross-Site Examination of Barriers to Diagnosis and Service Utilization for Autism Spectrum Disorder (ASD) Among Latino Families in California F. A. Reinosa Segovia[1], J. Smith[1], A. Aranbarri[2] and C. Kasari[3], (1)University of California Los Angeles, Los Angeles, CA, (2)University of California, Davis. MIND Institute, Sacramento, CA, (3) University of California, Los Angeles, Los Angeles, CA

145 ▸ 180.145 Age of Initial Caregiver Concern and Diagnosis in Asian Children at a Regional Satellite Autism Clinic M. Lambha, Marcus Autism Center, Atlanta, GA

146 ▸ 180.146 Autism in a Korean American Evangelical Community P. S. Hong[1], B. Leventhal[2], A. Sullivan[2], B. Kim[2] and Y. S. Kim[3], (1)Psychiatry, UCSF, San Francisco, CA, (2)UCSF, San Francisco, CA, (3)University of California San Francisco, San Francisco, CA

147 ▸ 180.147 Caregivers Needs of Persons with Autism Spectrum Disorders in Latin America: Results from Chile R. A. Garcia[1], M. Irarrazaval[2], S. Riesle[3], A. Moyano[4], M. Cabezas[5], A. Rattazzi[6], G. Garrido[7], C. S. Paula[8], C. Montiel-Nava[9], D. Valdez[10], A. Rosoli[11], S. H. Cukier[6] and F. Prieto[12], (1)Universidad de Chile, Santiago, CHILE, (2)University of Chile, Santiago, Santiago, Chile, (3)Independent, Santiago, CHILE, (4)Universidad de Chile, Santiago, Chile, (5)Clínica Las Condes, Santiago, Chile, (6)PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Argentina, (7)Universidad de la República, Montevideo, URUGUAY, (8)Developmental Disorder Program, Mackenzie Presbyterian Univesrsity, Sao Paulo, BRAZIL, (9)La Universidad del Zulia, Gainesville, GA, (10)FLACSO, Buenos Aires, Argentina, (11)OEI, Santo Domingo, Dominican Republic, (12)Millenium Institute for Research in Depression and Personality, Santiago de Chile, Chile

148 ▸ 180.148 Characteristics Associated with Drug Prescription and Compliance Among Children with Autism in South Israel. G. Meiri[1,2], H. Azoulay[1] and I. Menashe[1], (1)Ben-Gurion University of the Negev, Beersheva, Israel, (2)Pre-School Psychiatry Unit, Soroka University Medical Center, Beer-Sheva, Israel

149 ▸ 180.149 Cross-Cultural Validation Study of Emotion-Based Social Skills Training for Children with Autism M. G. Wong[1], N. Ma[2], C. Tang[2], D. Dossetor[3], H. Baassiri[3,4], B. J. Ratcliffe[5] and D. Draybi[2], (1) The Children's Hospital at Westmead, Westmead, AUSTRALIA, (2) Transcultural Mental Health Centre, Parramatta, Australia, (3)The Children's Hospital at Westmead, Westmead, Australia, (4)Psychological Medicine, Transcultural Mental Health Centre/ The Children's Hospital at Westmead, Westmead, Australia, (5)Children's Hospital at Westmead, Westmead, AUSTRALIA

150 ▸ 180.150 Cross-Cultural Views of Autism: How Latino and Anglo Parents Report Symptoms of ASD K. K. Stavropoulos, J. Blacher, Y. Bolourian and A. N. Racataian, University of California - Riverside, Riverside, CA

151 ▸ 180.151 Developing a Global Framework for Improving the Lives of Individuals with Autism Spectrum Disorder T. A. Lavelle[1], D. T. Helm[2,3], M. W. Azeem[4] and K. M. Munir[5,6], (1)Institute for Clinical Research and Health Policy Studies, Tufts Medical Center, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3)Institute for Community Inclusion, Boston, MA, (4)Sidra Medical and Research Center, Doha, Qatar, (5)Division of Developmental Medicine, Boston Children's Hospital, Boston, MA, (6)Harvard Medical School, Boston, MA

152 ▸ 180.152 Differences in Parenting Stress Between Monolingual and Multilingual Parents of Children with Autism Spectrum Disorder (ASD) Participating in an Early Intervention Study L. M. Chiang[1,2], W. I. Shih[3], A. Gulsrud[2] and C. Kasari[3], (1)Special Education, California State University, Los Angeles, Los Angeles, CA, (2)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA

153 ▸ 180.153 Effectiveness of Professional Development Training on Autism in Helping Professionals in Ethiopia: A Single Group, Pre-Post Design. W. Zeleke, T. L. Hughes and N. Drozda, Duquesne University, Pittsburgh, PA

154 ▸ 180.154 Factor Analysis of the Parental Concerns Questionnaire in Children with Autism Spectrum Disorder F. Alnemary[1] and F. Alnemary[2], (1)UCLA, Los Angeles, CA, (2)University of California, Los Angeles, CA

155 ▸ 180.155 Family Empowerment and Caregiver Strain Among Ethnically Diverse Caregivers of Children with ASD or ADHD J. Safer-Lichtenstein[1], L. G. Anthony[2], L. Kenworthy[2], A. B. Ratto[3], S. Seese[2], A. D. Verbalis[2], B. J. Anthony[4], M. Biel[1] and R. Mendez[4], (1)Georgetown University, Washington, DC, (2)Children's National Health System, Washington, DC, (3)Children's National Medical Center, Washington, DC, (4)Center for Child and Human Development, Georgetown University, Washington, DC

156 ▸ 180.156 Feasibility of a Smartphone Application to Identify Young Children at Risk for Autism Spectrum Disorder in a Low-Income, Community Setting in South Africa A. J. Kumm[1], K. Campbell[2], S. Marsan[3], J. Hashemi[4], S. Espinosa[4], R. Bloomfield[4], G. Dawson[3], G. Sapiro[4], H. Egger[5] and P. J. de Vries[6], (1)Vredehoek, University Of Cape Town, Cape Town, South Africa, (2)Duke Center for Autism and Brain Development, Durham, NC, (3)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (4) Duke University, Durham, NC, (5)Child and Adolescent Psychiatry, NYU Langone Medical Center, New York, NY, (6)University of Cape Town, Cape Town, SOUTH AFRICA

157 ▸ 180.157 In Search of Culturally Appropriate Autism Interventions for Latino Families M. DuBay, University of North Carolina at Chapel Hill, Chapel Hill, NC

158 ▸ 180.158 Inclusive Education of Students with ASD in the Province of Misiones, Argentina. Support Devices, NEEDS and Views of People with ASD, Their Families and Teachers. D. Valdez[1,2], E. E. Iginio[3], J. Mazal[4] and V. P. Obermann[4], (1)FLACSO, Facultad Latinoamericana de Ciencias Sociales, Buenos Aires, Argentina, (2)Universidad de Buenos Aires, Buenos Aires, Argentina, (3)Creer y Crear. Ayudas para las personas con TEA, Posadas, Argentina, (4)Creer y Crear. Ayudas para las Personas con TEA, Posadas, Argentina

159 ▸ 180.159 Initial Reaction to an Autism Diagnosis of Their Young Child: Findings from Interviews with 15 Mongolian Mothers M. S. Kaff, Kansas state university, Manhattan, KS

160 ▸ 180.160 Intersectoral Collaboration in Autism Screening and Surveillance - a Four Year Trend from Lagos Nigeria. Y. O. Oshodi[1], E. A. Campbell[2], B. Fadipe[2], A. T. Olagunju[1], M. A. Oyelohunnu[3], C. S. Umeh[4], A. E. Lamikanra[5], A. Lesi[6] and J. D. Adeyemi[1], (1)College of Medicine, University of Lagos, Lagos, Nigeria, (2)Lagos University Teaching Hospital, Lagos, Nigeria, (3)Lagos University Teaching Hospital, Lagos, NIGERIA, (4)Psychiatry, College of Medicine University of Lagos, Lagos, Nigeria, (5)Blazing Trails International, Frisco, TX, (6)University of Lagos, Surulere, Lagos, NIGERIA

161 ▸ 180.161 Khaleeji Parents ‹perspective on the Impact of Autism and Stuttering on Their Daily Life. M. Indargiri and D. Ward, University of Reading, Reading, United Kingdom

162 ▸ 180.162 Knowledge, Self-Efficacy, and Attitudes Toward Inclusion Among Teachers of Students with ASD in Lebanon J. Chebli[1], N. Najjar Daou[1], R. Obeid[2], P. J. Brooks[3] and K. Gillespie-Lynch[4], (1) American University of Beirut, Beirut, Lebanon, (2)CUNY Graduate Center, New York, NY, (3)College of Staten Island, Staten Island, NY, (4) Department of Psychology, College of Staten Island and The Graduate Center, CUNY, New York, NY

163 ▸ 180.163 Maternal Race-Ethnicity, Immigrant Status, Country of Birth, and the Odds of a Child with Autism J. Fairthorne[1], N. de Klerk[2], H. Leonard[3], L. A. Schieve[4] and M. Yeargin-Allsopp[5], (1)Telethon Kids Institute, Subiaco, Perth, WA, Australia, (2)Biostatistics, Telethon kids Institute, Perth, Australia, (3)Disability, Telethon Kids Institute, West Perth, AUSTRALIA, (4)Centers for Disease Control and Prevention, Atlanta, GA, (5)Centers for Disease Control and Prevention (CDC), Atlanta, GA

164 ▸ 180.164 Mexican Pediatricians´ Role in the Early Identification and Intervention of Autism Spectrum Disorder A. E. Zúñiga[1], P. Sanchez Lizardi[2], A. Pego[3] and L. Romero[3], (1)Centro Psicopedagogico Montes Urales, Mexico City, Mexico, (2)School of Psychology, Universidad Panamericana, Mexico, D.F., Mexico, (3)IPSOS, Mexico City, Mexico

165 ▸ 180.165 NEEDS, Quality of Life and Stigma of Families of Persons with ASD in Peru. Implementation of the LATIN American Autism Spectrum Network Caregiver NEEDS Survey. S. Manrique[1], M. D. L. A. del Castillo[2], A. Barreto[2], S. H. Cukier[3], R. A. Garcia[4], G. Garrido[5], C. Montiel-Nava[6], C. S. Paula[7], A. Rattazzi[3], A. Rosoli[8] and D. Valdez[9,10], (1)CPAL. Centro Peruano de Audicion, Lenguaje y Aprendizaje., Lima, Peru, (2)CPAL, Lima, Peru, (3)PANAACEA, Programa Argentino para Niños, Adolescentes y Adultos con Condiciones del Espectro Autista, Buenos Aires, Argentina, (4)Universidad de Chile, Santiago, CHILE, (5)Universidad de la República, Montevideo, URUGUAY, (6)La Universidad del Zulia, Gainesville, GA, (7) Developmental Disorder Program, Mackenzie Presbyterian Univesrsity, Sao Paulo, BRAZIL, (8)OEI, Santo Domingo, Dominican Republic, (9) FLACSO, Facultad Latinoamericana de Ciencias Sociales, Buenos Aires, Argentina, (10)Universidad de Buenos Aires, Buenos Aires, Argentina

166 ▸ 180.166 Parents' Experiences and Views of Screening and Diagnostic Assessment for Autism Spectrum Disorders (ASD) in Hong Kong: A Mixed-Methods Study H. Yi[1], Q. K. Y. Siu[1], F. Y. D. Chan[2], J. Greenberg[3] and S. M. Griffiths[1], (1)JC School of Public Health and Primary Care, The Chinese University of Hong Kong, Shatin, Hong Kong, (2)Department of Pediatrics, The Chinese University of Hong Kong, Shatin, Hong Kong, (3)The Children's Institute of Hong Kong, Kenndy Town, Hong Kong

167 ▸ 180.167 Positive Contact Decreases Stigma Associated with Autism Spectrum Disorder – Study through Interviews with Japanese High School Students M. Torii[1], F. A. Someki[2] and Y. Nishio[3], (1)Kobe University, Kobe, Japan, (2)Educational Studies, College of Staten Island, Staten Island, NY, (3)Graduate School of Human Development and Environment, Kobe University, Kobe, JAPAN

168 ▸ 180.168 Sleep and Behavioral Disturbances in Children with Autism Spectrum Disorders: Evidence from India P. Malhi[1], A. Kaur[2], P. Singhi[3] and N. Sankhyan[4], (1)Department of Pediatrics, Post Graduate Institute of Medical Education and Research, Chandigarth, UT, India, (2) Department of Pediatrics, Government Medical College and Hospital, Chandigarh, India, (3)Depatment of Pediatrics, PGIMER, Chandigarh, India, (4)Department of Pediatrics, PGIMER, Chandigarh, India

169 ▸ 180.169 Supporting Practitioner Responses to Attitudes to Autism and Intellectual Disability in Black and Minority-Ethnic Families in the UK and Beyond R. Veeravalli[1] and S. Fletcher-Watson[2], (1)University of Edinburgh, Edinburgh, United Kingdom, (2)University of Edinburgh, Edinburgh, Scotland, United Kingdom

170 ▸ 180.170 The Experiences of Special Needs Teachers Working with Children with ASD in Tanzania N. Naqvi[1], J. DeCuffa[1], S. Gordon[1] and A. Martinage[2], (1)Psychology, Iona College, New Rochelle, NY, (2) OMPACO, Boston, MA

171 ▸ 180.171 Assessing Knowledge of Autism Spectrum Disorders (ASD) in Tanzania; Results from an Intensive Four-Day Training on ASD for Special Educators N. Naqvi[1], A. Martinage[2], M. Collins[3], S. Gordon[1] and J. DeCuffa[1], (1)Psychology, Iona College, New Rochelle, NY, (2) OMPACO, Boston, MA, (3)OMPACO/Tufts University, Boston, MA

172 ▸ 180.172 The Use of M-CHAT (Malay version) As a Screening Tool for Pervasive Developmental Disorders in Malaysia D. S. C. Lau[1], I. Juriza[2], A. L. Zarina[2] and R. J. Raja Lope[3], (1)Pediatrics, The National University of Malaysia, Kuala Lumpur, Malaysia, (2)Pediatrics, The National University of Malaysia, Kuala Lumpur, Malaysia, (3)University Kebangsaan Malaysia Medical Centre, Kuala Lumpur, Malaysia

173 ▸ 180.173 Training Parents in Saudi Arabia to Implement Discrete-Trial Teaching with Their Children with Autism Spectrum Disorder A. M. Eid[1], S. Aljaser[1], A. AlSaud[1], R. M. Mohtasib[1], S. Asfahani[1], O. Alhaqbani[1], H. M. Al Dhalaan[1] and M. Fryling[2], (1)Center For Autism Research, Riyadh, Saudi Arabia, (2)California state university, Los Anglos, CA

174 ▸ 180.174 Training Parents in Saudi Arabia: Assessing Learning from Doing and Learning from Seeing A. M. Eid[1], H. M. Al Dhalaan[1], O. Alhaqbani[1], R. M. Mohtasib[1], A. AlSaud[1], M. Alaqil[1], M. Fryling[2] and S. Asfahani[1], (1)Center For Autism Research, Riyadh, Saudi Arabia, (2) California state university, Los Anglos, CA

175 ▸ 180.175 Transition of Adults with Autism Spectrum Disorders in the U.S. and China: Lessons Across Cultures D. B. Baker[1], M. L. Kelly[2] and H. McCabe[3], (1)Hobart and William Smith Colleges, Ithaca, NY, (2) Education, Hobart and William Smith Colleges, Geneva, NY, (3)Hussman Institute for Autism, Geneva, NY

176 ▸ 180.176 Trends in Autism Research Funding in the Arab World F. Alnemary[1] and F. Alnemary[2], (1)UCLA, Los Angeles, CA, (2)University of California, Los Angeles, CA

177 ▸ 180.177 Validation of the Com Deall Developmental Checklist and the Com Deall Oro-Motor Assessment in Normative and Autistic Populations in India: Linking Motor, Cognitive, and Speech and Language Skills T. Dash[1], P. Karanth[2] and M. K. Belmonte[3], (1)The Com DEALL Trust, Bangalore, India, (2)The Com DEALL Trust, Bangalore, 560043, INDIA, (3)Com DEALL Trust, Bangalore, INDIA

178 ▸ 180.178 The Expression, Recognition and Reporting of Autism Symptoms in the Ethiopian Context R. A. Hoekstra[1], F. Girma Bayouh[2], A. Mihretu[2], W. Adamu[2], H. Klasen[3] and C. Hanlon[2,4], (1)Department of Psychology, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom, (2)Department of Psychiatry, School of Medicine, College of Health Sciences, Addis Ababa University, Addis Ababa, Ethiopia, (3)Department of Child Psychiatry, Leiden University Medical Centre, Leiden, Netherlands, (4)Centre for Global Mental Health, Department of Health Services and Population Research, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

179 ▸ 180.179 Development, Adaptation, and Implementation of a Parent-Mediated Behavioral Intervention for Children with Autism Spectrum Disorder in Rural Bangladesh E. Rubenstein[1], J. Blake[2], P. C. Tsai[3], S. R. Rieth[4], H. Ali[5], H. Rahman[6] and L. C. Lee[7], (1)University of North Carolina, Chapel Hill, NC, (2)Johns Hopkins Bloomberg School of Public Health, Joppa, MD, (3)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (4)San Diego State University, San Diego, CA, (5)Center for Human Nutrition, Department of International Health, JHSPH, Baltimore, Maryland, USA, Gaibandha, BANGLADESH, (6)Jivita, Gaibandha, Bangladesh, (7)Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

180 ▸ 180.180 Adapting and Testing a Parent Education Program in Colombia S. Magana[1], M. Moreno-Angarita[2], M. Tejero Hughes[3] and K. Salkas[1], (1)Disability and Human Development, University of Illinois at Chicago, Chicago, IL, (2)Human Communication, Universidad Nacional de Colombia, Bogota, Colombia, (3)Special Education, University of Illinois at Chicago, Chicago, IL

181 180.181 Employing Niche Construction to Clarify Ethical Responsibilities in Cases of Autism Spectrum Disorders J. Anderson, Ethics Institute, Utrecht University, Utrecht, Netherlands

182 180.182 The Meaning of the Diagnosis of Autism for Adults. a Phenomenological Study K. Hens, Department of Philosophy, Universiteit Antwerpen, Antwerp, BELGIUM

183 ▸ 180.183 Predictors of Well-Being Among Mothers of Children with Autism in Lebanon S. Eid-Kantar[1], N. Najjar Daou[2], R. Obeid[3], P. J. Brooks[4], E. Goldknopf[5] and K. Gillespie-Lynch[6], (1)American University of Beirut, Beirut, Lebanon, (2)American University of Beirut, Beirut, LEBANON, (3)CUNY Graduate Center, New York, NY, (4)College of Staten Island, Staten Island, NY, (5)University of California, Los Angeles, Los Angeles, CA, (6)Department of Psychology, College of Staten Island and The Graduate Center, CUNY, New York, NY

184 ▸ 180.184 The Status of EARLY Identification of Autism in Brazil S. H. Ribeiro[1], D. Bordini[2], J. J. Mari[3], C. S. Paula[4] and S. C. Caetano[3], (1)UNIFESP, Sao Paulo, BRAZIL, (2)Unifesp, Sao Paulo, BRAZIL, (3) psychiatry, Federal Unversity of São Paulo, São Paulo, Brazil, (4) Developmental Disorder Program, Mackenzie Presbyterian University, Sao Paulo, BRAZIL

185 ▸ 180.185 A Proposed Measurement Solution to Psychometric Concerns with Existing ASD Knowledge Assessment Tools A. J. Harrison[1], L. Bradshaw[1], N. Naqvi[2], M. L. Paff[1] and J. M. Campbell[3], (1)University of Georgia, Athens, GA, (2)Psychology, Iona College, New Rochelle, NY, (3)University of Kentucky, Lexington, KY

186 ▸ 180.186 Using a Simple Social Communication Chart to Work with Parents N. Gaddour, University Hospital F. Bourguiba, Monastir, TUNISIA

187 ▸ 180.187 Autism in Africa: Community Perception, Implication for Social Development and Learning in Childhood M. O. Bakare, Federal Neuro-Psychiatric Hospital, Upper Chime, New Haven, Enugu, Enugu State, Nigeria, Enugu, NIGERIA

188 ▸ 180.188 Challenges and Innovation in Autism Research Approaches in South Africa M. Hoogenhout and N. M. Ing, Department of Psychology, University of Cape Town, Cape Town, South Africa

189 ▸ 180.189 Caregivers' Distress and Care Support Among Caregivers of Patients with Autism in a West Africa Community Surveillance E. A. Campbell[1], B. Fadipe[1], M. Oyelohunnu[1], P. Agboola[2], A. E. Lamikanra[3], A. T. Olagunju[4], Y. O. Oshodi[4] and J. D. Adeyemi[4], (1) Lagos University Teaching Hospital, Lagos, Nigeria, (2)Neuropsychiatry Hospital,, Abeokuta, Nigeria, (3)Evergreen Professor, Department of Foreign Studies, Blazing Trail International and Wuhan Polytechnic University, Dallas, TX, (4)College of Medicine, University of Lagos, Lagos, Nigeria

190 ▸ 180.190 Systems of Service Delivery for Care of Indian Children with Autism Spectrum Disorders S. M. Kaku, Clinical Neurosciences and Child and Adolescent Psychiatry, National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore, India

191 ▸ 180.191 ASD Service Delivery in South Africa N. M. Ing, M. Hoogenhout, S. Malcolm-Smith and K. Thomas, Department of Psychology, University of Cape Town, Cape Town, South Africa

## Poster Session

181 - Interventions - Non-pharmacologic - School-Age, Adolescent, Adult
12:00 PM - 1:40 PM - Golden Gate Ballroom

192 181.192 A 6-Month Follow-up of a Daily Living Skills Intervention for High Functioning Adolescents with ASD A. Duncan[1], L. A. Ruble[2], C. L. Thomas[1] and L. J. Stark[1], (1)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (2)University of Kentucky, Lexington, KY

193 181.193 A Cross-Regional and Multidisciplinary Delphi Consensus Study Describing Usual Care for Anxiety Problems in School to Transition-Age Youth with Autism C. M. Kerns[1], L. Moskowitz[2], A. Josephson[2], M. Jeffay[2], C. Day[3], A. Guha Ray[3], E. Cohn[4], A. Drahota[5], A. Wainer[6] and M. D. Lerner[7], (1)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (2)St. John's University, New York, NY, (3) Drexel University, Philadelphia, PA, (4)Adelphi University, Garden City, NY, (5)Michigan State University, East Lansing, MI, (6)Rush University Medical Center, Oak Park, IL, (7)Stony Brook University, Stony Brook, NY

194 181.194 A Modified Book Reading Intervention for Students with Complex Communication Needs Who Are English Learners and Have a Severe Intellectual Delay T. Kemper[1] and V. Fleury[2], (1)400 West First St., California State University Chico, Chico, CA, (2)Educational Psychology, University of Minnesota, Minneapolis, MN

195 181.195 A Multiple Single Case and Mixed-Methods Evaluation of a Parent-Mediated CBT Intervention for Children with ASD and Difficulties with Emotional Regulation: Feasibility, Acceptability and an Initial Estimate of Efficacy S. A. Shah[1,2], M. Murin[3], D. H. Skuse[4] and W. Mandy[1], (1)University College London, London, United Kingdom, (2)Social and Communication Disorders Clinic, Great Ormond Street Hospital, London, United Kingdom, (3)Great Ormond Street Hospital for Children, London, UNITED KINGDOM, (4)UCL GOS Institute of Child Health, London, UNITED KINGDOM

196 181.196 A Review of Social Communication Interventions for Students with Autism Spectrum Disorder in School Settings: Contributions from Single-Subject Research F. Al-Rasheed[1], F. Alnemary[2], J. Lee[1] and W. A. Machalicek[1], (1)College of Education, University of Oregon, Eugene, OR, (2)University of California, Los Angeles, CA

197 181.197 A Thematically Structured Educational Program for Children with Autism Spectrum Disorder H. M. Chiang, University of Macau, Taipa, Macao

198 181.198 ASD Students' Perceptions of the Optimal Practices That Aid Their Transition to Highschool A. Leroux-Boudreault[1] and N. Poirier[2], (1)Université du Québec à Montréal, Montreal, PQ, Canada, (2)Université du Québec à Montréal, Montréal, CANADA

199 181.199 Acceptance and Commitment Therapy (ACT)-Based Stress Management for High-Functioning Autism Spectrum Disorder (ASD) J. Pahnke[1], T. Lundgren[2], T. Hirvikoski[3], B. Bohman[2] and G. Andersson[4], (1)Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, (2)Department of Clinical Neuroscience, Karolinska Institute, Stockholm, Sweden, (3)Karolinska Institutet, Stockholm, SWEDEN, (4)Karolinska Institute, Stockholm, Sweden

200 181.200 Accommodating Adolescents with Severe ASD Symptoms in an Extracurricular Technology Club K. Nester[1], M. Stotz[2], A. S. Huschke[1], F. Mancuso[2], K. Tang[2], H. Miller[2] and J. Kaboski[2], (1)Saint Mary's College, Notre Dame, IN, (2)University of Notre Dame, South Bend, IN

201 181.201 Adolescent and Parent Factors That Contribute to Non-Completion of the PEERS® Intervention A. McVey[1], H. K. Schiltz[1], A. D. Haendel[2], B. Dolan[1], K. A. Willar[3], S. Stevens[4], A. M. Carson[5], F. Mata-Greve[1], E. Vogt[1], K. M. Rivera[1], E. Habisohn[1], J. Hilger[6], N. Fritz[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI, (3)Children's Hospital Colorado, Aurora, CO, (4)University of Minnesota Medical School, Blaine, MN, (5) Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (6) Illinois State University, Normal, IL

202 181.202 An Innovative, Urban, Diverse Teen Mentoring Initiative S. King[1], L. Bartolotti[2] and S. Rajabiun[3], (1)88 East Newton Street, Vose 4, Autism Consortium, Boston, MA, (2)Boston Medical Center, Boston, MA, (3)The Center for Advancing Health Policy and Practice, Boston University School of Public Health, Boston, MA

203 181.203 Applying the Theory of Change Approach in a National Autism Charity – Benefits, Challenges and Issues in Selecting Measures. I. Dale[1], C. Povey[2] and J. Harris[3], (1)The National Autistic Society, Sheffield, England, United Kingdom, (2)The National Autistic Society, London, UNITED KINGDOM, (3)The National Autistic Society, London, United Kingdom

204 181.204 Behavior Analysts & Speech Pathologists: Perspectives Regarding Theories and Treatment of Autism Spectrum Disorder T. Cardon, Utah Valley University, Vineyard, UT

205 181.205 Can We Increase Educational Professionals' Self-Efficacy to Teach the Autism Curriculum? J. Salt and K. Johnsen, HAVE Dreams, Park Ridge, IL

206 181.206 Command & Control Cognitive Training: Executive Functioning Intervention for Teens & Young Adults with ASD Pilot Study M. Fitch and M. Baker-Ericzen, Rady Children's Hospital San Diego, San Diego, CA

207 181.207 Comparing Social Skills Outcomes in Adolescents with ASD and Adolescents with ADHD Following the UCLA PEERS® Intervention L. Forby[1], A. Ganel[2], A. Dahiya[2], N. Rosen[2], E. Veytsman[3] and E. A. Laugeson[4], (1)Suite 1268, UCLA, Los Angeles, CA, (2)UCLA, Los Angeles, CA, (3)UCLA PEERS Clinic, Los Angeles, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

208 181.208 Computer and Technology Club As Social Performance Intervention for Adolescents with ASD and Their Peers J. Kaboski[1], F. Mancuso[1], K. Tang[1], J. J. Diehl[2], H. Miller[1], E. R. Fisher[1], J. Georgeson[3], K. P. Hendrix[1], A. S. Huschke[3], D. Klee[1], K. Nester[3], K. O'Boyle[1], G. Ramos[1], J. Riemersma[1], L. T. Simon[3] and M. Stotz[1], (1)University of Notre Dame, South Bend, IN, (2)LOGAN Community Resources, Inc. University of Notre Dame, South Bend, IN, (3)Saint Mary's College, Notre Dame, IN

209 181.209 DBT-Informed Group Treatment to Improve Emotion Regulation and Social Interactions in Young Adults with Autism Spectrum Disorder K. Hartmann[1], M. Urbano[1], T. Kozikowski[1], T. V. Williams[2] and L. R. Qualls[2], (1)Eastern Virginia Medical School, Norfolk, VA, (2)Virginia Consortium Program in Clinical Psychology, Norfolk, VA

210 181.210 Design and Efficacy of a Wearable Device for Social Affective Learning in Children with Autism N. Haber[1], A. Kline[2], C. Voss[1], J. Daniels[1], P. Washington[1], A. Fazel[1], T. De[1], C. Feinstein[1], T. Winograd[3] and D. Wall[4], (1)Stanford University, Stanford, CA, (2)Pediatrics, Stanford University, Stanford, CA, (3)Computer Science, Stanford University, Stanford, CA, (4)Stanford University, Palo Alto, CA

211 181.211 Developing an Autism-Specific Workplace Tool for Employers M. Scott[1,2], M. Falkmer[3], T. Falkmer[1,2] and S. J. Girdler[1,3], (1) School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Brisbane, Australia, (3)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia

212 181.212 Development and Validation of a Virtual Reality Intervention for Adaptive Outdoor Activities in Autism Spectrum Disorder M. Castelo-Branco[1,2], M. Simoes[3], G. Oliveira[4], F. Barros[5] and M. Bernardes[5], (1)University of Coimbra, Portugal, Coimbra, Portugal, (2) ICNAS - Produção, Coimbra, Portugal, (3)Institute for Biomedical Imaging and Life Science, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (4)Unidade de Neurodesenvolvimento e Autismo, Pediatric Hospital, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, (5)University of Coimbra, Coimbra, Portugal

213 181.213 Effect of N-3 Polyunsaturated Fatty Acid on Behavioral Response in Autism: A Systematic Review and Meta-Analysis L. Lin, M. Dai, J. Liang, M. Cao, J. Jing and L. Cai, Department of Maternal and Child Health, Sun Yat-Sen University, Guangzhou, China

214 181.214 Effectiveness of a Caregiver Mediated Intervention in Publicly -Funded Mental Health Services: Factors Associated with Improvements in Parenting Self-Efficacy N. Stadnick[1,2], S. Roesch[2,3], C. Chlebowski[1,2], W. Ganger[2,3] and L. Brookman-Frazee[2,4], (1)University of California, San Diego, San Diego, CA, (2)Child and Adolescent Services Research Center, San Diego, CA, (3)San Diego State University, San Diego, CA, (4)University of California, San Diego, La Jolla, CA

215 181.215 Effectiveness of a Computer-Assisted Cognitive-Behavioral Therapy Program in Treating Youth with Anxiety and Co-Occurring Autism Spectrum Disorder: Camp Cope-a-Lot F. C. Pryor, A. J. Lincoln and R. Igelman, Alliant International University, San Diego, CA

216 181.216 Effects of a Classroom-Based Music Therapy Model on Social Skills for Children with Autism Spectrum Disorder L. DeMoss[1], P. Scarbrough[1], Y. White[2], C. Ripple[1], L. Schmid[1], J. Riggsbee[3], J. Witcher Lahiff[2] and G. Dawson[4], (1)Social Science Research Institute, Duke University, Durham, NC, (2)Voices Together, Durham, NC, (3)Program in Education, Duke University, Durham, NC, (4)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC

217 181.217 Effects of a School-Based Exercise Intervention Program on Stress and Executive Functioning in Adolescents with Autism Spectrum Disorder or Other Special Education Needs N. Elliott[1], L. K. Koegel[2], M. Gore[3] and J. McCleery[4], (1)University of Birmingham, Birmingham, UNITED KINGDOM, (2)Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA, (3)University of Birmingham (UK), Birmingham, United Kingdom, (4)The Children's Hospital of Philadelphia, Philadelphia, PA

218 181.218 Effects of rTMS on Evoked and Induced Gamma Oscillations and Event-Related Potentials in Children with Autism E. M. Sokhadze[1], M. F. Casanova[2], A. S. El-Baz[1], G. Sokhadze[1] and E. V. Lamina[3], (1)University of Louisville, Louisville, KY, (2)University of South Carolina School of Medicine, Greenville, SC, (3)Biomedical Sciences, University of South Carolina, Greenville, SC

219 181.219 Elementary School Students' Spontaneous Definitions of Autism S. Kerwin, K. A. Scheil and J. M. Campbell, University of Kentucky, Lexington, KY

220 181.220 Employment Works Canada, a National Program for Young Adults with Autism W. Mitchell[1], D. B. Nicholas[2], M. Clarke[3] and J. Zwicker[4], (1)The Ability Hub, Calgary, AB, CANADA, (2)University of Calgary, Edmonton, AB, CANADA, (3)Sinneave Family Foundation, Calgary, AB, CANADA, (4)University of Calgary, Calgary, AB, CANADA

221 181.221 Evaluating the Effects of Social Intervention on Social Cognition in Young Adults with High Functioning Autism Spectrum Disorder P. Azarkam[1], M. C. Coret[2] and A. McCrimmon[2], (1)University of Calgary, Woodbridge, ON, Canada, (2)University of Calgary, Calgary, AB, CANADA

222 181.222 Evaluation of Multidisciplinary, Multi-Tiered Approach to Anxiety Treatment in Youth with Autism Spectrum Disorder R. Ma[1], R. Montague[2], R. K. Earl[3], C. Ola[4], A. Persons-Geer[2], F. Orlich[5], A. Bohlander[6], S. Pickering[2], R. Oti[7] and S. J. Kim[2], (1)Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, MA, (2)Seattle Children's Autism Center, Seattle, WA, (3)Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, (4)College of Education, University of Washington, Seattle, WA, (5)Center for Child Health, Behavior and Development, Seattle Children's Hospital, Seattle, WA, (6)Psychiatry, Seattle Children's Hospital, Seattle, WA, (7)Seattle Children's Hospital, Seattle, WA

223 181.223 Evaluation of PEERS® in a Canadian Context: Improvements in Social Skills and Social Competence L. Purdon[1], K. Murphy[1], R. L. Matchullis[2], S. Felicia[1], M. C. Coret[2] and A. McCrimmon[2], (1)University of Calgary, Calgary, AB, Canada, (2)University of Calgary, Calgary, AB, CANADA

224 181.224 Evaluation of Performance-Based Measures of Functional Skills R. Schaaf[1], E. Ridgway[2], A. Carroll[3], M. J. Mulcahey[4], S. Molholm[5] and Z. Mailloux[3], (1)Thomas Jefferson University, Phhiladelphia, PA, (2)RFK CERC Einstein/Montefiore, Yonkers, NY, (3) Occupational Therapy, Thomas Jefferson University, Philadelphia, PA, (4)Occupational Therapy, Thomas Jefferson Unviersity, Philadelphia, PA, (5)The Children's Research Unit (CRU), Program in Cognitive Neuroscience,City College of New York, Bronx, NY

225 181.225 Evaluation of a Peer Education Program about Autism Spectrum Disorder for Elementary School Students J. M. Campbell, E. Caldwell, K. A. Scheil, O. Lochner and S. Kerwin, University of Kentucky, Lexington, KY

226 ▸ 181.226 Examining the Effects of the PEERS® Social Skills Intervention on Racial and Ethnic Minorities with Autism Spectrum Disorder K. M. Rivera[1], A. McVey[1], H. K. Schiltz[1], A. D. Haendel[2], B. Dolan[1], K. A. Willar[3], S. Stevens[4], A. M. Carson[5], F. Mata-Greve[1], E. Vogt[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI, (3)Children's Hospital Colorado, Aurora, CO, (4)University of Minnesota Medical School, Blaine, MN, (5) Baylor College of Medicine/Texas Children's Hospital, Houston, TX

227 181.227 Expert Provider Use of Empirically-Evaluated Treatment Elements for Anxiety in Youth with ASD T. Rosen[1], R. J. Weber[1], B. Marro[2], C. M. Kerns[3], A. Drahota[4], L. Moskowitz[5], A. Wainer[6], S. Sommer[1], A. Josephson[5] and M. D. Lerner[1], (1)Stony Brook University, Stony Brook, NY, (2)Social Competence & Treatment Lab, Saint James, NY, (3)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (4)Michigan State University, East Lansing, MI, (5)St. John's University, New York, NY, (6)Rush University Medical Center, Oak Park, IL

228 181.228 Fostering Socio-Emotional Competencies in Children with Autism Spectrum Condition: Results of a Randomized Controlled Trial Using the Interactive Training App „Zirkus Empathico" I. Dziobek[1], S. Kirst[1], R. Diehm[2], S. Wilde-Etzold[3], M. A. Noterdaeme[4] and L. Poustka[5], (1)Berlin School of Mind and Brain, Humboldt University Berlin, Berlin, Germany, (2)Clinic for Child and Adolescent Psychiatry, Medical University of Vienna, Wien, Austria, (3)Clinic for Child and Adolescent Psychiatry and Psychotherapy, Josefinum, Augsburg, Germany, (4)Child and Adolescent Psychiatry, Augsburg, GERMANY, (5) Clinic for Child and Adolescent Psychiatry, Medical University Vienna, Vienna, Austria

229 181.229 Good Practices in Youth Intervention in Autism Spectrum Disorder: A Program to Improve the Social Skills M. Robles[1], C. Francesc[2], X. Fortuny[1] and J. P. Cruells[3], (1)CERAC, La Garriga, Spain, (2)FUNDACIÓ PRIVADA CONGOST-AUTISME, la Garriga (Barcelona), SPAIN, (3)CERAC, LA GARRIGA, SPAIN

230 181.230 Group-Delivered Video Model Intervention Package Improves Social Skills in Adults with Autism Spectrum Disorder E. S. Brodkin[1], A. A. Pallathra[1], J. Day-Watkins[2] and J. E. Connell[2], (1) Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (2)Drexel University, Philadelphia, PA

231 181.231 TUNE in, a Novel Cognitive Behavioral Treatment Program to Improve Social Functioning in Adults with ASD: Pilot Study Results A. A. Pallathra[1], J. Day-Watkins[2], M. E. Calkins[3], B. Maddox[4], J. Miller[5], J. Parish-Morris[4], J. D. Herrington[6], S. Kangovi[7], R. Tomlinson[8], T. Creed[7], C. M. Kerns[9], W. Bilker[7], F. Handy[7], J. E. Connell[2], G. S. Dichter[10], D. S. Mandell[7], R. T. Schultz[5] and E. S. Brodkin[1], (1) Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, (2)Drexel University, Philadelphia, PA, (3)Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, (4) Children's Hospital of Philadelphia, Philadelphia, PA, (5)The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (6)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (7)University of Pennsylvania, Philadelphia, PA, (8)Temple University, Philadelphia, PA, (9)Drexel University A.J. Drexel Autism Institute, Philadelphia, PA, (10)University of North Carolina - Chapel Hill, Chapel Hill, NC

232 181.232 Identifying Active Ingredients: Examining the Relationship Between Teacher Fidelity of Implementation of Classroom Pivotal Response Teaching and Student Engagement V. Li[1], T. Holt[2], S. R. Rieth[3], K. S. Dickson[4], J. Suhrheinrich[5] and A. C. Stahmer[6], (1)Child & Adolescent Services Research Center, San Diego, CA, (2)CASRC, San Diego, CA, (3)San Diego State University, San Diego, CA, (4)Child and Adolescent Services Research Center, San Diego, CA, (5)University of California, San Diego, La Jolla, CA, (6)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA

233 181.233 Ifit: A Peer-Supported Physical Activity Program for College Students with ASD T. Todd[1], N. Miodrag[2], B. Rios[3], K. Geary[3] and S. Colgate[3], (1)California State University, Northridge, CA, (2)Child and Adolescent Development, California State University, Northridge, Northridge, CA, (3)Kinesiology, California State University, Northridge, Northridge, CA

234 181.234 Improvements in Emotional Intelligence Following Completion of PEERS® in Adolescents with Autism Spectrum Disorder K. Murphy[1], L. Purdon[1], R. L. Matchullis[2], M. C. Coret[2] and A. McCrimmon[2], (1)University of Calgary, Calgary, AB, Canada, (2)University of Calgary, Calgary, AB, CANADA

235 181.235 Improving Amount of Detail and on-Topic Question-Asking in Adults with ASD Using a Visual Framework and Self-Management E. Engstrom, R. L. Koegel and L. K. Koegel, Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA

236 181.236 Improving Engagement on the Playground and in the Classroom for School Age Children with ASD: A Multisite Randomized Trial W. I. Shih[1], M. Dean[2], J. J. Locke[3], J. Caramanico[4], K. Zanibbi[5], C. Aponte[6], D. Senturk[7], D. S. Mandell[8], T. Smith[9] and C. Kasari[1], (1) University of California, Los Angeles, Los Angeles, CA, (2)California State University, Channel Islands, Camarillo, CA, (3)University of Washington Autism Center, Seattle, WA, (4)University of Pennsylvania, Media, PA, (5)University of Rochester, Rochester, NY, (6)University of Rochester Medical Center, Pittsford, NY, (7)University of California Los Angeles, Los Angeles, CA, (8)University of Pennsylvania, Philadelphia, PA, (9) University of Rochester Medical Center, Rochester, NY

237 181.237 Inclusion-Focused University-Based Community Integration Programs: A Pilot Study of Perceived Benefits By Participating Adults with Autism C. E. Exner[1], Z. Zaks[2] and A. Frydman[2], (1)Towson University, Towson, MD, (2)Hussman Center for Adults with Autism, Towson University, Towson, MD

238 181.238 Increasing Motivation in Academics for Children with Autism in Inclusive Classrooms L. B. Glugatch[1] and K. Oliver[2], (1)Special Education, University California, Santa Barbara, Santa Barbara, CA, (2) University California, Santa Barbara, Santa Barbara, CA

239 181.239 Increasing Physical Activity for Adults with Autism Spectrum Disorder through Praise and Technology M. Savage, Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Carrboro, NC

240 181.240 Initial Outcomes of a RCT of a Comprehensive School-Based Intervention for Children with HFASD J. D. Rodgers[1], C. Lopata[1], M. L. Thomeer[1], J. P. Donnelly[1], C. A. McDonald[1], H. Wang[2] and T. Smith[3], (1)Canisius College, Institute for Autism Research, Buffalo, NY, (2)University of Rochester, Rochester, NY, (3)University of Rochester Medical Center, Rochester, NY

241 181.241 Interventions to Improve Oral Care for Individuals with ASD: A Systematic Review L. I. Florindez[1], S. A. Cermak[2], E. Hong[1] and L. I. Duker (Stein)[1], (1)Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA, (2)USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, CA

242 181.242 Long Term Outcomes of a Social Skills Intervention for Adolescents with ASD B. L. Ncube[1], J. M. Bebko[2], M. Thompson[3], . Spoelstra[3] and L. Verbeek[3], (1)York University, York, ON, CANADA, (2) York University, Toronto, ON, CANADA, (3)Autism Ontario, Toronto, ON, CANADA

243 181.243 Mental Health in Adults with ASD: Impact of the Success Program E. I. Velazquez Villarreal[1], M. Baker-Ericzen[1], M. M. Jenkins[1], M. Fitch[1] and R. T. Trefas[2], (1)Rady Children's Hospital San Diego, San Diego, CA, (2)Research Resources, Rady Children's Hospital San Diego, La Jolla, CA

244 181.244 Multi-Informant Assessment of Transition-Related Skills and Skill Importance in Adolescents with Autism Spectrum Disorder K. Hume[1], J. Dykstra Steinbrenner[2], L. E. Smith[3] and T. Regan[4], (1) University of North Carolina, Chapel HIll, Carrboro, NC, (2)Frank Porter Graham Child Development Institute, Carrboro, NC, (3)Waisman Center-University of Wisconsin, Madison, WI, (4)UNC-Chapel Hill, Chapel Hill, NC

245 181.245 Music Improves Social Communication in Autism Spectrum Disorder – a Randomized Control Trial C. Tuerk[1], M. Sharda[1], K. Jamey[1], N. E. Foster[1], R. Chowdhury[1], E. Germain[1], A. Nadig[2] and K. L. Hyde[1,2], (1)University of Montreal, Montreal, QC, Canada, (2)Faculty of Medicine, McGill University, Montreal, QC, Canada

246 181.246 Parent and Child Factors Related to Homework Completion in Cognitive-Behaviour Therapy for Children with ASD C. S. Albaum[1] and J. A. Weiss[2], (1)Psychology, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, CANADA

247 181.247 Peer-Play Assessments for RCTs: Feasibility of Measuring Generalization from Clinic-Based Socialization Interventions L. Soorya[1], M. T. Printen[2], A. Burns[3] and A. T. Wang[4], (1)Suite 603, Rush University Medical Center, Chicago, IL, (2)Rush University Medical Center, Chicago, IL, (3)AARTS Center, Rush University Medical Centre, Chicago, IL, (4)Icahn School of Medicine at Mount Sinai, New York, NY

248 181.248 Physiological Wellness Effects of Animal-Assisted Activities in Children with Autism Spectrum Disorder in a Specialized Psychiatric Hospital Program K. A. Willar[1], Z. Pan[2], B. Dechant[2], S. Harmeling[1], M. Germone[1], N. Guerin[3] and R. Gabriels[1], (1)Children's Hospital Colorado, Aurora, CO, (2)University of Colorado Denver, Aurora, CO, (3)Purdue University, West Lafayette, IN

249 181.249 Piece It Together: Exercise and Wellness Program for Transitional Age Youth with Autism Spectrum Disorders and Mild Developmental Disorders E. Spratt, C. Papa, J. Newton, K. Flynn and L. A. Carpenter, Medical University of South Carolina, Charleston, SC

250 181.250 Prefrontal Neurofeedback Training in Children with Autism E. M. Sokhadze[1], M. F. Casanova[2], D. P. Kelly[3], Y. WANG[4] and A. Tasman[1], (1)University of Louisville, Louisville, KY, (2)University of South Carolina School of Medicine, Greenville, SC, (3)Pediatrics, Greenville Health System, Greenville, SC, (4)Allied Health School, Beijing Language and Culture University, Beijing, China

251 181.251 Prevention of Elopement-Related Injuries in Children with ASD A. M. Andersen[1], J. K. Law[2], A. R. Marvin[3] and P. H. Lipkin[4], (1)Psychiatry, University of Iowa Hospitals and Clinics, Iowa City, IA, (2) Interactive Autism Network, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD, (4)Medical Informatics, Kennedy Krieger Institute, Baltimore, MD

252 181.252 Profile of Skills and Symptoms in Transition Aged Youth with ASD E. Edwards[1], A. Pearl[2], M. Klemick[1] and M. Murray[1], (1)Penn State College of Medicine, Hershey, PA, (2)Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hummesltown, PA

253 181.253 Public Perceptions of Autism Treatments: Does Source Credibility Matter? V. Fleury, G. Trevors and P. Kendeou, Educational Psychology, University of Minnesota, Minneapolis, MN

254 181.254 Randomised Controlled Trial of the Use of the BLUE Room Virtual Reality Treatment to Reduce Situation Specific Anxiety in Young People with ASD M. Maskey[1], V. Grahame[2], H. McConachie[3], J. Rodgers[4] and J. Parr[4], (1)Newcastle University, Newcastle upon Tyne, UNITED KINGDOM, (2)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle upon Tyne, UNITED KINGDOM, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom

255 181.255 Reduced Levels of Parental Anxiety, Depression and Stress Following Pivotal Response Treatment S. M. Abdullahi, M. L. Braconnier, J. Lei, C. Kautz and P. E. Ventola, Yale Child Study Center, New Haven, CT

256 181.256 Regression in Children with ASD: Clinical Profile and Short Term Outcome. P. K. Panchal[1], S. Srinath[2], S. C. Girimaji[3], S. Seshadri[1] and J. V. S. Kommu[2], (1)National Institute of Mental Health and Neurosciences, Bangalore, India, (2)NIMHANS, Bangalore, INDIA, (3)Child and Adolescent Psychiatry, National Institute of Mental Health and Neurosciences, Bangalore, India

257 181.257 Results of a RCT on a Transition Support Program for Adults with ASD: Effects on Quality of Life and Self-Determination A. Nadig[1], T. Flanagan[2], K. White[2] and S. Bhatnagar[3], (1)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada, (2)Counselling and Educational Psychology, McGill University, Montreal, QC, Canada, (3)Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, QC, Canada

258 181.258 Robotics Based Therapy in Chilean Children with Autism Spectrum Disorder (ASD) L. Madariaga[1], A. C. Yanez[2], M. Troncoso[2], J. Albo-Canals[3], C. López[2], P. González[2], P. Lagos[2], M. Fernández[2] and M. Dorochesi[1], (1)Product Design Engineering, Federico Santa Maria Technical University, Valparaíso, Chile, (2)Child Neuropsychiatry Service, San Borja Arriaran Hospital, Santiago, Chile, (3) Engineering School, La Salle – Ramon Llull University, Barcelona, Spain

259 181.259 Self-Esteem As a Mediator of Social Skills Improvement and Social Anxiety for Adolescents with Autism Spectrum Disorder (ASD) Following the UCLA PEERS® Program Y. Zhang[1,2], J. Yang[3], E. Veytsman[1], R. Jalal[1] and E. A. Laugeson[4], (1)UCLA PEERS Clinic, Los Angeles, CA, (2)Pepperdine University, Los Angeles, CA, (3) The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

260 181.260 Sex Differences in Adaptive and Social Behavior and Neural Responses to Biological Motion before and after Pivotal Response Treatment in Autism C. Kautz[1], D. Yang[2,3], K. A. Pelphrey[2,3], J. Lei[1], M. L. Braconnier[1], S. M. Abdullahi[1] and P. E. Ventola[1], (1)Yale Child Study Center, New Haven, CT, (2)Autism and Neurodevelopmental Disorders Institute, The George Washington University, Washington, DC, (3) Children's National Health System, Washington, DC

261 181.261 Symptoms of ADHD, Depression, and Social Anxiety As Predictors of Social Skills Outcomes Among Adolescents with ASD Following the UCLA PEERS® Intervention A. Dahiya[1], N. Rosen[1], R. Ellingsen[2], L. Forby[1], E. Veytsman[3] and E. A. Laugeson[4], (1)UCLA, Los Angeles, CA, (2)University of California Los Angeles, Venice, CA, (3)UCLA PEERS Clinic, Los Angeles, CA, (4)Psychiatry, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA

262 181.262 How Perceived Financial Strain Impacts Autism Support Teachers M. Seidman[1], D. R. Adams[2], R. Ouellette[3] and G. Azad[4], (1)Center for Mental Health Policy and Services Research, University of Pennsylvania, Philadelphia, PA, (2)School of Social Service Administration, University of Chicago, Chicago, IL, (3)Florida International University, Miami, FL, (4)University of Pennsylvania, Hamilton, NJ

263 181.263 Tailoring Eye Tracking to Specific Targets of Pivotal Response Treatment (PRT): Preliminary Results from Novel Eye-Tracking Tasks in Children with and without ASD C. Foster[1], F. Shic[2], Q. Wang[3], C. A. Wall[4], E. Barney[5], Y. A. Ahn[2], B. Li[2], L. Booth[1], M. C. Lyons[6], C. Paisley[6], S. M. Abdullahi[1], M. L. Braconnier[1], J. Lei[1], M. Kim[2], C. Kautz[1] and P. E. Ventola[1], (1)Yale Child Study Center, New Haven, CT, (2)Center for Child Health, Behavior and Development, Seattle Children's, Seattle, WA, (3) Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (4)University of South Carolina, Columbia, SC, (5)Child Study Center, Yale University, New Haven, CT, (6)Yale University, New Haven, CT

264 181.264 Teaching Adults with Autism Spectrum Disorder Responses to Non-Verbal Pragmatic Behavior S. J. Cohen[1], R. L. Koegel[2] and L. K. Koegel[2], (1)University of Hawaii at Manoa, Goleta, CA, (2) Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA

265 181.265 Teaching Goal Attainment to Young Adults with Autism Using Self-Regulated Problem-Solving Strategy G. Yakubova[1], A. Zehner[2] and M. Aladsani[2], (1)University of Maryland, College Park, MD, (2) Duquesne University, Pittsburgh, PA

266 181.266 The Benefits of Using a Telehealth Service Delivery Model to Improve Communication Skills in Children with Autism Spectrum Disorder. M. V. Andrianopoulos and C. Gargan, Communication Disorders, University of Massachusetts Amherst, Amherst, MA

267 181.267 The Effects of Mindfulness Practice on Psychological Wellbeing in Mothers of Children with ASD: A PILOT Study N. Miodrag[1], I. Weiner[2], J. Rivas[3], S. Stembridge[4], E. Weible[5] and D. Boyns[6,7], (1) California State University, Northridge, Northridge, CA, (2)Special Education, California State University Northridge, Northridge, CA, (3) Child and Adolescent Development, California State University Northridge, Northridge, CA, (4)California State University Northridge, Northridge, CA, (5)Family Focus Resource Center, California State University Northridge, Northridge, CA, (6)Sociology, California State University Northridge, Northridge, CA, (7)Institute for Community Health and Wellbeing, Northridge, CA

268 181.268 The Impact of Self-Regulation Skills on Academic Outcomes in Minimally-Verbal School-Age Children with Autism H. J. Nuske[1], C. Kane[1], K. Rump[1], M. Pellecchia[1], B. Maddox[2], E. Reisinger Blanch[1] and D. S. Mandell[1], (1)University of Pennsylvania, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA

269 181.269 The Job-Train Program: A Community-University Employment Preparation Initiative for Youth with ASD B. M. Di Rezze[1], I. O'Connor[2], R. Brennan[3], S. Honeyman[4], A. Difazio[5], T. Bennett[6], G. Hall[1] and S. Georgiades[1], (1)McMaster University, Hamilton, ON, CANADA, (2)McMaster Universtiy-Offord Centre, Dundas, ON, CANADA, (3) Woodview Mental Health and Autism Services, Burlington, ON, CANADA, (4)Hamilton-Wentworth District School Board, Hamilton, ON, CANADA, (5)Hamilton Wentworth District School Board, Hamilton, ON, Canada, (6)Offord Centre for Child Studies, McMaster University, Hamilton, ON, CANADA

270 181.270 The Labour Market Experience of Women with High Autistic Traits S. M. Hayward[1], M. A. Stokes[2] and K. R. McVilly[1], (1)The University of Melbourne, Melbourne, Australia, (2)School of Psychology, Deakin University, Melbourne, Australia

271 181.271 The Mediating Role of Teaching Quality and Student Engagement Between Teacher Mental Health and Learning Outcomes of Students with ASD. W. H. Wong[1], L. A. Ruble[1], Y. Yu[2] and J. H. McGrew[3], (1)University of Kentucky, Lexington, KY, (2)Indiana University - Purdue University Indianapolis, Indianapolis, IN, (3)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN

272 181.272 The Quality of High School Programs for Students with ASD from 3 States L. J. Hall[1], B. Kraemer[2], S. L. Odom[3] and L. E. Smith[4], (1)Special Education, San Diego State University, San Diego, CA, (2) San Diego State University, Carlsbad, CA, (3)University of North Carolina, Chapel Hill, NC, (4)Waisman Center-University of Wisconsin, Madison, WI

273 181.273 The Use of Positive Reframing to Reduce Negative Statements in Adolescents with ASD J. Hai[1], L. K. Koegel[2] and R. L. Koegel[2], (1)Education, UC Santa Barbara, Santa Barbara, CA, (2) Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA

274 181.274 Therapy Satisfaction As a Predictor of Parent Improvement Following Cognitive Behavioral Therapy for Children with Autism Spectrum Disorder A. L. Maughan[1], V. Chan (Ting)[2] and J. A. Weiss[1], (1)York University, Toronto, ON, CANADA, (2)York University, Thornhill, ON, CANADA

275 181.275 Training School-Based Consultants to Conduct Data-Based Functional Assessments V. L. Rodrigues, J. Staubitz, L. A. Weaver and P. Juárez, Vanderbilt University Medical Center, Nashville, TN

276 181.276 Understanding Intolerance of Uncertainty for Autistic Adults: Development of the Adult Coping with Uncertainty in Everyday Situations© Programme J. Rodgers[1], R. Herrema[2], E. Honey[3,4] and M. Freeston[5], (1)Newcastle University, Newcastle University, Newcastle, United Kingdom, (2)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, UNITED KINGDOM, (3)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, UNITED KINGDOM, (4)Doctorate in Clinical Psychology, Newcastle University, Newcastle Upon Tyne, United Kingdom, (5)Psychology, Newcastle University, Newcastle, United Kingdom

277 181.277 Video Self-Modeling (VSM) As an Intervention for Adolescents with Autism Spectrum Disorders (ASD) in School and Clinical Settings A. Merrill, Indiana University, Columbus, OH

278 181.278 Who Benefits from Cognitive Training with Neurotracker?: Training Attention in Students with Autism Spectrum Disorder and Other Neurodevelopmental Disorders D. Tullo[1], J. Faubert[2] and A. Bertone[1], (1)McGill University, Montreal, QC, Canada, (2) Laboratoire de Psychophysique et de Perception Visuelle, Université de Montréal, Montréal, QC, Canada

279 181.279 Worktopia: Perspectives of a Job Readiness Program for Individuals with Autism Spectrum Disorder D. B. Nicholas[1], W. Mitchell[2], M. Clarke[3] and C. Dudley[4], (1)University of Calgary, Edmonton, AB, CANADA, (2)The Ability Hub, Calgary, AB, CANADA, (3) Sinneave Family Foundation, Calgary, AB, CANADA, (4)Sinneave Family Foundation, Calgary, AB, Canada

280 181.280 "If You Make the Story Good Enough, It Becomes a Reward": Designing a Social Emotional Serious Game from the Perspectives of Youth on the Autism Spectrum and Professionals J. Tang[1,2], M. Falkmer[1,3,4], S. Bolte[5,6] and S. J. Girdler[1,3], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Queensland, Australia, (3)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia, (4)School of Education and Communication, CHILD programme, Institute of Disability Research, Jönköping University, Jönköping, Jönköping County, Sweden, (5)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (6) Karolinska Institutet Center of Neurodevelopmental Disorders (KIND), Dept. Women's and Children's Health, Karolinska Institutet, Stockholm, Sweden

281 181.281 Examining Socialization Improvement Growth Trends of Adolescents Participating in an RCT of the Social Tools and Rules for Teens (START) Program for ASD: A Multi-Level Modeling Study T. Vernon, J. Ko, A. Miller, A. Barrett and E. McGarry, University of California Santa Barbara, Santa Barbara, CA

282 ▸ 181.282 The Use of Recommended Practices for Children with ASD in Urban Preschools A. S. Nahmias[1,2], S. R. Crabbe[2] and D. S. Mandell[2], (1)University of California Los Angeles, Los Angeles, CA, (2)University of Pennsylvania, Philadelphia, PA

283 181.283 Implementation Fidelity and Outcomes in School-Based Interventions M. Pellecchia[1], M. Seidman[1], C. Spaulding[1], M. Xie[2] and D. S. Mandell[1], (1)University of Pennsylvania, Philadelphia, PA, (2) University of Pennsylvania, Philadephia, PA

284 181.284 Context Matters: A Mixed Methods Study of Organizational Factors That Affect Implementation of Interventions for Children with Autism in Public Schools J. J. Locke[1], R. S. Beidas[2], S. Marcus[2], A. C. Stahmer[3], G. A. Aarons[4], A. R. Lyon[5], C. Cannuscio[2], F. Barg[2], S. Dorsey[5] and D. S. Mandell[2], (1)University of Washington Autism Center, Seattle, WA, (2)University of Pennsylvania, Philadelphia, PA, (3)Psychiatry and Behavioral Sciences, UC Davis MIND Institute, Sacramento, CA, (4)Psychiatry, University of California, San Diego, La Jolla, CA, (5)University of Washington, Seattle, WA

285 181.285 Statewide Interagency Collaboration to Increase Access to Professional Training in Evidence-Based Practice J. Suhrheinrich[1], M. Dean[2], P. Schetter[3], P. Yasuda[4] and A. Aspen[5], (1) University of California, San Diego, La Jolla, CA, (2)California State University, Channel Islands, Camarillo, CA, (3)UC Davis, Sacramento, CA, (4)Children's Hospital Los Angeles, Los Angeles, CA, (5)Diagnostic Center Central, Fresno, CA

## Poster Session
182 - Miscellaneous
12:00 PM - 1:40 PM - Golden Gate Ballroom

286 182.286 Memory in Autism: A Case of Remembering Versus Knowing S. V. Huemer[1], F. Kruggel[2], V. Mann[2] and J. Gehricke[3], (1) University of CA - Irvine, Rancho Palos Verdes, CA, (2)University of California Irvine, Irvine, CA, (3)University of California, Irvine, Santa Ana, CA

## Oral Session - 11A
183 - Mental and Physical Health in Adulthood
1:15 PM - 2:05 PM - Yerba Buena 3-6

1:15 183.001 Autism and Depression in Young Adulthood: Cohort Studies in Sweden and England D. Rai[1,2], I. Culpin[1], R. M. Pearson[1], C. Dalman[3], H. Heuvelman[1], M. Lundberg[3], P. Carpenter[2], J. Golding[1] and C. Magnusson[3], (1)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (2)BASS Autism Services for Adults, Avon & Wiltshire Partnership NHS Trust, Bristol, United Kingdom, (3)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden

1:27 183.002 Increased Risk for Self-Harm in Autism: Preliminary Findings from the Stockholm Youth Cohort I. Bubak[1], D. Rai[2], S. Idring Nordstrom[3], M. Lundberg[4], I. Culpin[2], C. Dalman[4] and C. Magnusson[4], (1)Department of Public Health, Stockholm County Council and Karolinska Institutet, Stockholm, Sweden, (2)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (3)Department of Public Health Sciences, Stockholm, SWEDEN, (4)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden

1:39 183.003 The Relationship Between Mental Health, Employment and Quality of Life: Findings from the Autism Spectrum Cohort-UK A. Petrou[1], H. McConachie[2], A. Le Couteur[2], B. Ingham[3], J. Hamilton[3], T. Berney[1], D. Mason[2], D. Garland[4] and J. Parr[1], (1)Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne, United Kingdom, (2)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Northumberland, Tyne and Wear NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (4)National Autistic Society, Newcastle upon Tyne, United Kingdom

1:51 183.004 Health Outcomes of Adults with ASD W. S. McKinney[1], M. R. Klinger[2], P. S. Powell[3] and L. G. Klinger[2], (1) Northwestern University, Evanston, IL, (2)UNC TEACCH Autism Program, Chapel Hill, NC, (3)School of Psychology, Georgia Institute of Technology, Atlanta, GA

## Oral Session - 11B
184 - ASD and Sexuality
2:10 PM - 3:00 PM - Yerba Buena 3-6

2:10 184.001 Sexuality in ASD: The Female Profile L. A. Pecora[1,2], G. Hancock[3], G. Mesibov[4] and M. A. Stokes[5], (1)Deakin University, Parkdale, Australia, (2)School of Psychology, Deakin University, Burwood, Australia, (3)Deakin University, Werribee, Australia, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)School of Psychology, Deakin University, Melbourne, Australia

2:22 184.002 Romantic Relationship Experience in Autism Spectrum Disorder G. Hancock[1], L. A. Pecora[2], G. Mesibov[3] and M. A. Stokes[4], (1)Deakin University, Werribee, Australia, (2) Deakin University, Parkdale, Australia, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)School of Psychology, Deakin University, Melbourne, Australia

2:34 184.003 Sexuality in the Eyes of Parents and Young Adults with Autism Spectrum Disorder K. Hartmann[1], T. Kozikowski[1], T. V. Williams[2], M. Urbano[1], N. L. Kreiser[3], L. R. Qualls[2] and P. L. Alexander[1], (1)Eastern Virginia Medical School, Norfolk, VA, (2) Virginia Consortium Program in Clinical Psychology, Norfolk, VA, (3)Psychiatry and Behavioral Science, Eastern Virginia Medical School, Norfolk, VA

2:46 184.004 Falling in Love and Living Together? Sexual Attraction and Relationship Status in Adolescents and Adults with ASD. J. Dewinter[1], H. de Graaf[2] and S. Begeer[3], (1)Child and adolescent psychiatry, GGzE, Eindhoven, NETHERLANDS, (2) Rutgers, Utrecht, Netherlands, (3)VU University Amsterdam, Amsterdam, NETHERLANDS

## Oral Session - 12A

185 - Evaluating Social Attention and Reward in Young Children with ASD
1:15 PM - 2:05 PM - Yerba Buena 7

1:15 185.001 Initiating Joint Attention: Reduced Gaze Alternation in Infancy Is Related to More ASD Symptomatology in Toddlerhood E. Thorup[1], P. Nyström[2], G. Gredebäck[2], S. Bolte[3] and T. Falck-Ytter[3,4], (1)Uppsala universitet, Stockholm, SWEDEN, (2)Uppsala University, Uppsala, SWEDEN, (3)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (4)Dept of Psychology, Uppsala University, Uppsala, Sweden

1:27 185.002 Feasibility of a Mobile Phone-Delivered Study of Social and Emotional Behaviors in Young Children at Risk for Autism H. Egger[1], K. Campbell[2], K. Carpenter[2], J. Hashemi[3], S. Espinosa[3], M. Tepper[3], J. Schaich Borg[3], Q. Qiu[3], S. Marsan[2], G. Dawson[2], R. Bloomfield[3] and G. Sapiro[3], (1)Child and Adolescent Psychiatry, NYU Langone Medical Center, New York, NY, (2)Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, (3)Duke University, Durham, NC

1:39 185.003 Imitation of Socially Rewarding and Non-Socially Rewarding Actions in Preschoolers with ASD G. Vivanti[1], D. R. Hocking[2], P. A. Fanning[3] and C. Dissanayake[4], (1)AJ Drexel Autism Institute, Philadelphia, PA, (2)Psychology & Counselling, Developmental Neuromotor & Cognition Lab, La Trobe University, Melbourne, AUSTRALIA, (3)La Trobe University, Melbourne, Australia, (4)School of Psychology & Public Health, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia

1:51 185.004 Positive Affective Response to Dynamic Smiling Faces in Young Children with Autism Spectrum Disorder P. Heymann[1], S. Macari[1], L. DiNicola[1], E. Hilton[1], A. Milgramm[1], F. E. Kane-Grade[2] and K. Chawarska[1], (1)Yale Child Study Center, Yale University School of Medicine, New Haven, CT, (2) Yale child Study Center, New Haven, CT

## Oral Session - 12B

186 - Contributors to Social Processing Deficits in ASD
2:10 PM - 3:00 PM - Yerba Buena 7

2:10 186.001 Exploring Sex Differences in Social Attention in ASD H. L. Hayward[1], L. Mason[2], A. San Jose Caceres[3], R. Holt[4], M. C. Lai[5], S. Baron-Cohen[6], J. K. Buitelaar[7], D. G. Murphy[8] and E. Loth[9], (1)Institute of Psychiatry Psychology and Neuroscience, King's College London, London, England, United Kingdom, (2) CBCD, Birkbeck, University of London, Gravesend, UNITED KINGDOM, (3)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (4)Autism Research Centre, University of Cambridge, Cambridge, UNITED KINGDOM, (5)Psychiatry, University of Toronto, Toronto, ON, CANADA, (6)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (7)Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, (8)Department of Forensic and Neurodevelopmental Sciences, and the Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, (9)Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom

2:22 186.002 Investigating Gender-Specific Trajectories of Autistic Traits Across Childhood and Adolescence in a Large Birth Cohort W. Mandy[1], J. Heron[2], E. Pellicano[3], B. St. Pourcain[4] and D. H. Skuse[5], (1)University College London, London, United Kingdom, (2)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (3)Centre for Research in Autism and Education (CRAE), UCL Institute of Education, University College London, London, United Kingdom, (4)University of Bristol, Bristol, UNITED KINGDOM, (5)UCL GOS Institute of Child Health, London, UNITED KINGDOM

2:34 186.003 What Is Best - Zebra Crossings or Shared Zones? Revealing Pedestrian Viewpoints on Two Uncontrolled Crossing Points. R. Earl[1], S. J. Girdler[1], M. Falkmer[2], S. L. Morris[3] and T. Falkmer[1], (1)School of Occupational Therapy and Social Work, Curtin University, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia, (3)School of Physiotherapy and Exercise Science, Curtin University, Perth, Australia

2:46 186.004 Social Reinforcement Learning and Its Neural Modulation By Oxytocin in Autism Spectrum Disorder J. A. Kruppa[1,2], A. Gossen[1,2], N. Großheinrich[1], E. Oberwelland[1,2], H. Cholemkery[3], H. Schopf[1], G. Kohls[1], G. R. Fink[2], B. Herpertz-Dahlmann[1], K. Konrad[1,2] and M. Schulte-Rüther[1,2], (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, University Hospital RWTH Aachen, Aachen, Germany, (2)Cognitive Neuroscience, Institute of Neuroscience and Medicine (INM-3), Jülich Research Center, Jülich, Germany, (3)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe-University Frankfurt am Main, Frankfurt am Main, Germany

## Oral Session - 13A

187 - Innovative Treatments for School-Aged Children
1:15 PM - 2:05 PM - Yerba Buena 8

1:15 187.001 A Randomized Trial of a Brief Attention Bias Modification Game to Improve Engagement to Social Stimuli for Children with Autism Spectrum Disorder G. A. Alvares[1,2], N. T. Chen[2,3,4], L. Notebaert[4], J. Granich[1], C. Mitchell[4] and A. J. Whitehouse[1,2], (1)Telethon Kids Institute, University of Western Australia, Perth, Australia, (2)Cooperative Research Centre for Living with Autism (Autism CRC), Long Pocket, Brisbane, Australia, (3)School of Psychology and Speech Pathology, Curtin University, Perth, Australia, (4)School of Psychology, University of Western Australia, Perth, Australia

1:27 187.002 The Pegasus Psychoeducational Programme for Young People Diagnosed with Autism Spectrum Condition M. Murin[1], K. Gordon[2], D. H. Skuse[3] and W. Mandy[4], (1)Great Ormond Street Hospital, Great Ormond Street Hospital for Children, London, United Kingdom, (2)Child and Adolescent Mental Health Service, Berkshire Healthcare Foundation NHS Trust, Reading, UNITED KINGDOM, (3)UCL GOS Institute of Child Health, London, UNITED KINGDOM, (4)University College London, London, United Kingdom

1:39 187.003 Theatre of Mind: Results from a Large Randomized Control Trial of a Theatre-Based Intervention Showing Improvement in Social Cognition and Behavior in Youth with Autism Spectrum Disorder B. A. Corbett[1], I. Muse[1], R. A. Muscatello[2], A. P. F. Key[3] and S. Ioannou[4], (1)Psychiatry and Behavioral Sciences, Vanderbilt University Medical Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3) Vanderbilt University Medical Center, Nashville, TN, (4)Lipscomb University, Nashville, TN

1:51 187.004 School-Based RCT Peer Social Intervention for Minimally Verbal Children with ASD N. Bauminger-Zviely, Bar-Ilan University, Ramat Gan, ISRAEL

## Oral Session - 13B

188 - Evaluating Outcomes in Social Skills Training
2:10 PM - 3:00 PM - Yerba Buena 8

2:10 ▸188.001 Adolescents with Autism Spectrum Disorder and Social Skills Groups at School: A Randomized Trial Comparing Intervention Approach and Peer Composition M. Dean[1], J. Williams[2], C. Kasari[3] and F. Orlich[4], (1)California State University, Channel Islands, Camarillo, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA, (4)Center for Child Health, Behavior and Development, Seattle Children's Hospital, Seattle, WA

2:22 188.002 Evaluating Changes in Dynamic Social Interaction Skills Following a Randomized Controlled Trial of the START Socialization Intervention for Adolescents with ASD J. Ko, A. Miller, A. Barrett, E. McGarry and T. Vernon, University of California Santa Barbara, Santa Barbara, CA

2:34 188.003 Changes in EEG Asymmetry, ERP to Affective Stimuli, and Social Motivation and Cognition in Young Adults Completing PEERS® Intervention B. Dolan[1], A. Barrington[1], H. K. Schiltz[1], A. McVey[1], S. Stevens[2], K. A. Willar[3], J. S. Karst[4], W. Krueger[1], C. Suhling[1], D. Snyder[1], R. McKindles[1], K. Reiter[1], S. Potts[1], C. Caiozzo[1], A. D. Haendel[5], S. Timmer-Murillo[1], S. Chesney[1], N. Gordon[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2)University of Minnesota Medical School, Blaine, MN, (3)Children's Hospital Colorado, Aurora, CO, (4) Medical College of WI, Wauwatosa, WI, (5)Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI

2:46 188.004 Caregiver Vs. Adolescent Report of Internalizing Symptoms and Relationship to Physiological Arousal Across the PEERS® Intervention A. Arias[1], A. McVey[1], H. K. Schiltz[1], A. D. Haendel[2], B. Dolan[1], K. A. Willar[3], S. Stevens[4], J. S. Karst[5], A. M. Carson[6], F. Mata-Greve[1], E. Vogt[1], K. M. Rivera[1], E. Habisohn[1], J. Hilger[7], N. Fritz[1] and A. V. Van Hecke[1], (1)Marquette University, Milwaukee, WI, (2) Interdisciplinary PhD program (Psychology and Biomed Science), Marquette University, Milwaukee, WI, (3)Children's Hospital Colorado, Aurora, CO, (4)University of Minnesota Medical School, Blaine, MN, (5)Medical College of WI, Wauwatosa, WI, (6)Baylor College of Medicine/Texas Children's Hospital, Houston, TX, (7) Illinois State University, Normal, IL

## Oral Session - 14A

189 - Functional Connectivity in ASD: From Infancy to Adulthood
1:15 PM - 2:05 PM - Yerba Buena 9

1:15 189.001 Altered Patterns of Local Connectivity in Autism Measured By Regional Homogeneity S. Nair, R. K. Kana and N. Loomba, University of Alabama at Birmingham, Birmingham, AL

1:27 189.002 Longitudinal Changes in Functional Connectivity in Autism Spectrum Disorder K. E. Lawrence[1], L. M. Hernandez[2], H. Bowman[3], S. Y. Bookheimer[1] and M. Dapretto[1], (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA, (3)NPI Psychiatry, UCLA, Los Angeles, CA

1:39 189.003 Age-Dependent Alterations in Resting State Connectivity in the Broader Autism Phenotype - a Twin Study J. Neufeld[1], P. Fransson[2], R. Kuja-Halkola[3], E. Cauvet[1], K. Mevel[4] and S. Bolte[1], (1)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Institutionen för kvinnors och barns hälsa (KBH), Karolinska Institutet, Stockholm, Sweden, (2)Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, (3)Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden, (4)Laboratory for the Psychology of Child Development and Education (LaPsyDÉ), CNRS UMR 8240, Sorbonne Paris Cité, GIP Cyceron, Université de Caen Normandie, Université Paris Descartes, Paris, France, Paris, France

1:51 189.004 Decoupling of the GABA / Gamma Relationship during Development in ASD – the Impact of an Atypical Developmental Trajectory T. P. Roberts[1], R. G. Port[1], W. Gaetz[1], L. Bloy[1], L. Blaskey[1], E. S. Kuschner[1], E. S. Brodkin[2] and S. E. Levy[1], (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Department of Psychiatry, University of Pennsylvania, Philadelphia, PA

2:46 190.004 Fmri Reveals That Toddlers with an ASD Respond Abnormally in the Superior Temporal Sulcus to Social Orienting Stimuli during Natural Sleep L. T. Eyler[1], K. Campbell[2], I. Mutschler[3], C. C. Barnes[1], E. Courchesne[1] and K. Pierce[1], (1) University of California, San Diego, San Diego, CA, (2)Duke Center for Autism and Brain Development, Durham, NC, (3) University of San Diego, San Diego, CA

## Oral Session - 14B

190 - Early Brain Development
2:10 PM - 3:00 PM - Yerba Buena 9

2:10 190.001 Altered Early Development of Resting-State Network Properties in Infants at High Risk for Autism Spectrum Disorder. A. Nair[1], T. Tsang[2], J. Liu[2], L. P. Jackson[3], C. Ponting[4], H. Bowman[5], S. S. Jeste[6], S. Y. Bookheimer[2] and M. Dapretto[2], (1)University of California Los Angeles, Los Angeles, CA, (2) University of California, Los Angeles, Los Angeles, CA, (3)Semel Institute, UCLA, Los Angeles, CA, (4)Clinical Psychology, UCLA, Los Angeles, CA, (5)NPI Psychiatry, UCLA, Los Angeles, CA, (6) UCLA, Los Angeles, CA

2:22 190.002 Functional Neuroimaging in High-Risk 6-Month-Old Infants Predicts Later Autism R. Emerson[1], C. Adams[2], T. Nishino[2], H. C. Hazlett[1], J. J. Wolff[3], L. Zwaigenbaum[4], J. N. Constantino[5], M. D. Shen[1], M. R. Swanson[6], J. T. Elison[3], S. Kandala[2], A. Estes[7], K. Botteron[8], D. L. Collins[9], S. Dager[10], A. C. Evans[11], G. Gerig[12], H. Gu[13], R. McKinstry[14], S. Paterson[15], R. T. Schultz[16], M. Styner[1], B. Schlaggar[2], J. R. Pruett[17] and J. Piven[1], (1)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2) Washington University, St Louis, MO, (3)University of Minnesota, Minneapolis, MN, (4)University of Alberta, Edmonton, AB, CANADA, (5)Department of Psychiatry, Washington University School of Medicine, St. Louis, MO, (6)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Carrboro, NC, (7)University of Washington Autism Center, Seattle, WA, (8)Washington University School of Medicine, St Louis, MO, (9)Montreal Neurological Institute, McGill University, Montreal, QC, CANADA, (10)University of Washington School of Medicine, Seattle, WA, (11)Montreal Neurological Institute, McGill University, Montréal, QC, CANADA, (12)New York University, New York, NY, (13)University of North Carolina at Chapel Hill, Chapel Hill, NC, (14)Washington University, St. Louis, MO, (15)Children's Hospital of Philadelphia, Philadelphia, PA, (16) The Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (17)Washington University School of Medicine, Saint Louis, MO

2:34 190.003 Early Developing Functional Connectivity Between Default Mode, Salience, Attention, and Visual Networks Underpins Autism and a Subgroup with Preference for Geometric Images and Lack of Social Orienting M. V. Lombardo[1,2], M. Datko[3], L. T. Eyler[3], C. C. Barnes[3], E. Courchesne[3] and K. Pierce[3], (1)University of Cyprus, Nicosia, Cyprus, (2)University of Cambridge, Cambridge, United Kingdom, (3)University of California, San Diego, San Diego, CA

## Oral Session - 15A

191 - Gene Discovery in ASD
1:15 PM - 2:05 PM - Yerba Buena 10-14

1:15 191.001 Genome Sequencing of 2,064 Genomes from 516 Simplex Families with Autism T. Turner[1], B. P. Coe[1], B. J. Nelson[1], M. C. Zody[2], F. Hormozdiari[1], Z. N. Kronenberg[1], S. A. McClymont[3], P. A. Hook[3], K. Hoekzema[1], M. H. Duyzend[1], A. Raja[1,4], C. Baker[1], R. Bernier[5], A. S. McCallion[3], R. B. Darnell[2,6] and E. E. Eichler[1,4], (1)Department of Genome Sciences, University of Washington, Seattle, WA, (2)New York Genome Center, New York, NY, (3)McKusick-Nathans Institute of Genetic Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, (4)Howard Hughes Medical Institute, University of Washington, Seattle, WA, (5)University of Washington Autism Center, Seattle, WA, (6)Howard Hughes Medical Institute, Rockefeller University, New York, NY

1:27 191.002 Integrative Analyses of Autism and Intellectual Disability Exome Data Reveal Similarities and Divergences and Identify Novel Risk Genes for Both Disorders S. De Rubeis[1,2], A. E. Cicek[3,4], L. Klei[5], B. Devlin[5], J. D. Buxbaum[2] and K. Roeder[6,7], (1)Department of Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, (2)Seaver Autism Center for Research and Treatment, Icahn School of Medicine at Mount Sinai, New York, NY, (3)Department of Computer Engineering, Bilkent University, Ankara, TURKEY, (4)Computational Biology Department, Carnegie Mellon University, Pittsburgh, PA, (5) Department of Psychiatry, University of Pittsburgh, Pittsburgh, PA, (6)Department of Psychiatry, Carnegie Mellon University, Pittsburgh, PA, (7)Department of Statistics, Carnegie Mellon University, Pittsburgh, PA

1:39 191.003 Interaction Between Human Sexual Dimorphism and ASD Neurobiology. S. J. Sanders[1] and D. M. Werling[2], (1)UCSF, San Francisco, CA, (2)Psychiatry, UCSF, San Francisco, CA

1:51 191.004 Role of De Novo Intronic Indels in Autism A. Munoz Jimenez, B. Yamrom, Y. H. Lee, P. Andrews, S. Marks, Z. Wang, M. Wigler and I. Iossifov, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

## Oral Session - 15B

192 - Epigenetics and Transcriptomics

2:10 PM - 3:00 PM - Yerba Buena 10-14

2:10 192.001 Transcriptional Gene Silencing of the Autism-Associated Long Noncoding RNA MSNP1AS in Human Neural Progenitor Cells J. DeWitt[1], N. A. Grepo[2], B. Wilkinson[3], O. V. Evgrafov[3], K. V. Morris[4], J. A. Knowles[3] and D. B. Campbell[3], (1)University of Southern California, Alhambra, CA, (2)USC, LOS ANGELES, CA, (3)University of Southern California, Los Angeles, CA, (4)City of Hope, Duarte, CA

2:22 192.002 RNA-Seq Analyses of RORA-Deficient Neuronal Cells and Brain Tissues from Individuals with ASD Provide Support for RORA As a "Master Regulator" of Genes Impacted By Autism V. Hu[1] and T. Sarachana[1,2], (1)Biochemistry and Molecular Medicine, The George Washington University, Washington, DC, (2)Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand

2:34 192.003 ASD-Associated Genomic Variants in 16p11.2 and CHD8 Exhibit Clinically and Biologically Functional DNA Methylation Signatures M. T. Siu[1], D. T. Butcher[1], S. Choufani[1], A. L. Turinsky[1,2], C. Cytrynbaum[1,3,4], D. J. Stavropoulos[5,6], S. Walker[7], Y. Lou[1], S. W. Scherer[1,4,7], M. Brudno[1,2,8] and R. Weksberg[1,3,4,9,10], (1)Program in Genetics and Genome Biology, The Hospital for Sick Children, Toronto, ON, Canada, (2)Centre for Computational Medicine, The Hospital for Sick Children, Toronto, ON, Canada, (3)Division of Clinical and Metabolic Genetics, The Hospital for Sick Children, Toronto, ON, Canada, (4)Department of Molecular Genetics, University of Toronto, Toronto, ON, Canada, (5)Pediatric Laboratory Medicine, The Hospital for Sick Children, Toronto, ON, Canada, (6)Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, (7)The Centre for Applied Genomics, The Hospital for Sick Children, Toronto, ON, Canada, (8)Department of Computer Science, University of Toronto, Toronto, ON, Canada, (9)Institute of Medical Sciences, School of Graduate Studies, University of Toronto, Toronto, ON, Canada, (10)Department of Pediatrics, University of Toronto, Toronto, ON, Canada

2:46 192.004 Whole-Genome Bisulfite Sequencing Reveals Autism-Associated Hypomethylation and Differentially-Methylated Regions in Umbilical Cord Blood Samples from the Prospective Marbles Study C. E. Mordaunt[1,2,3,4], K. W. Dunaway[1,2,3,4], Y. Zhu[1,2,3,4], R. J. Schmidt[3,4,5], C. K. Walker[3,4,6], S. Ozonoff[3,7], I. Hertz-Picciotto[3,4,5] and J. M. LaSalle[1,2,3,4], (1)Medical Microbiology and Immunology, University of California, Davis, Davis, CA, (2)Genome Center, University of California, Davis, Davis, CA, (3)MIND Institute, University of California, Davis, Sacramento, CA, (4)Center for Children's Environmental Health, University of California, Davis, Davis, CA, (5)Public Health Sciences, University of California, Davis, Davis, CA, (6)Obstetrics and Gynecology, University of California, Davis, Sacramento, CA, (7)Psychiatry and Behavioral Sciences, University of California, Davis, Sacramento, CA

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## B

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## C

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## E

## F

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## G

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## H

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## I

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## J

## K

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## L

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## P

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## Q



## R

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## S

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## T

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

## W

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold



## X



## Y

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

# ABSTRACT AUTHOR INDEX

Presenting Author Abstract Indicated in Bold

## IMFAR Annual Meeting – International Meeting for Autism Research

The IMFAR Annual Meeting was convened for the first time in November 2001, to provide ASD researchers from around the world with a focused opportunity to share the rapidly moving scientific investigation of ASD. Until that meeting, ASD researchers competed with many other groups for the opportunity to share their work at large scientific meetings that covered a wide range of topics. While other meetings provided some opportunity to share high quality ASD research, none of them focused specifically on ASD. Funding for ASD research has increased steadily, highlighted by the emergence of private foundations, such as Autism Speaks and several NIH initiatives: The Autism Centers for Excellence (ACE), which replaces earlier NIH programs – The Collaborative Programs of Excellence in Autism (CPEA) and the Studies to Advance Autism Research and Treatment (STAART) network program. Stimulating more scientific progress in understanding ASD requires a dedicated yearly venue for ASD researchers to share their findings and their resources.

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

## Objectives of the Meeting

1. The International Meeting for Autism Research (IMFAR) is an annual scientific meeting, convened each spring, to exchange and disseminate new scientific progress among ASD scientists and their trainees from around the world. The first and primary aim of the meeting is to promote exchange and dissemination of the latest scientific findings and to stimulate research progress in understanding the nature, causes, and treatments for ASD.

2. Research on ASD involves sophisticated behavioral and biological approaches. ASD affects people's functioning in virtually every domain, requiring interdisciplinary research collaboration to gain comprehensive knowledge of the disorder. A second aim of the meeting is to foster dialogue among ASD scientists across disciplines and across methods.

3. The third aim is to promote the training and development of new ASD scientists by supporting the inclusion of postdoctoral and predoctoral trainees as well as junior faculty who are already working in ASD research. The opportunity for trainees and junior faculty to interact with established ASD scientists will foster the creativity and productivity of those at all levels.

4. The fourth aim is to foster diversity among ASD scientists by encouraging attendance and supporting access to the meeting for scientists and trainees from members of traditionally underrepresented groups, including those from ethnic minority groups, and those with disabilities.

## Abstracts

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

## Insurance, Liabilities

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

## Exhibits

The Exhibit Hall is an integral part of the learning experience. Attendees will have an ideal opportunity to learn about the latest in pharmaceuticals, publications, scientific equipment, and technology. A complete exhibitor listing is included in this Program Book. To ensure safety and security, no children, strollers, carriages, wheeled luggage or wheeled briefcases will be allowed in the Exhibit Hall during exhibit hours. Exhibits will be held in the Yerba Buena Ballroom Foyer on the lower level of the B2 Level of the San Francisco Marriott Marquis.

Thursday, May 11 . . . . . 8:00 a.m. – 5:00 p.m.
Friday, May 12 . . . . . 8:00 a.m. – 5:00 p.m.
Saturday, May 13 . . . . . 8:00 a.m. – 12:00 p.m.

## Wireless Internet

Wireless internet is available in all meeting rooms from Wednesday, May 10 – Saturday, May 13. Please follow the instructions below to access the Internet:

- Connect to the IMFAR 2017
- Enter the Password research17

## Language

The official language of the Annual Meeting is English. Translation service will not be available for any sessions.

## Photography and Recording of Programs

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

## Press Room

The Press Room is located on the B2 level in The Willow Room. Press Room hours are:

Thursday, May 11 . . . . . 9:00 a.m. – 5:00 p.m.
Friday, May 12 . . . . . 9:00 a.m. – 5:00 p.m.
Saturday, May 13 . . . . . 9:00 a.m. – 12:00 p.m.

## Program Changes

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

## Meeting Location

San Francisco Marriott Marquis
780 Mission Street
San Francisco, CA 94103 USA
415-896-1600

## Business Center

There is a FedEx Office located on the B2 Level, one level below the lobby. If you take the escalator down from lobby, it's at the foot of the escalators on the left side. The phone number of the office is 415-369-9928 or you can email them at USA5515@fedex.com

## No Smoking Policy

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

## Information for International Travelers

All international embassies from other countries to the United States are located in Washington, D.C. There are a number of international embassy branch offices, called consulates, located in San Francisco, California. If your country does not have a consulate in San Francisco, California, call directory information in Washington, D.C. (phone: 202.555.1212) for the number of your national embassy.

## Gratuities

Gratuities are not automatically added to the bill, except in some cases for large groups. Waiters and waitresses are usually given 15% of the bill. Taxi drivers usually receive 10% of the fare and doormen, skycaps and porters are normally tipped $1 per bag.

## Registration and Security

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

## Future IMFAR Annual Meeting Dates

2018 — Rotterdam, the Netherlands . . . . . May 9-12
2019 — Montreal, Canada . . . . . May 1-4
2020 — Seattle, Washington, USA . . . . . May 6-9

## Safety and Security Information

The San Francisco Marriott Marquis security team will be on site during the entire IMFAR Congress. In case of emergency please dial "6666" and you will be connected directly to the San Francisco Marriott Marquis Security Office who will assist you.

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

## General Safety Tips

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

## Contact Information

International Society for Autism Research (INSAR)

342 North Main Street, Suite 301
West Hartford, CT 06117-2507
Phone: 860.586.7575

Email: INSAR@autism-insar.org
Website: www.autism-insar.org

**Autism BrainNet**
Melissa Miller
UC Davis MIND Institute
2805 50th St
Sacramento, CA 95817
Phone: (877) 333-0999
Email: info@autismbrainnet.org
Website: www.takesbrains.org
www.autismbrainnet.org

Autism BrainNet is a multi-site network that acquires, stores, processes and distributes brain tissue resources to accelerate autism research and increase our understanding of the underlying neurobiological basis of autism. Autism BrainNet is supported by the Simons Foundation Autism Research Initiative (SFARI). Register at www.takesbrains.org

---

**Autism Science Foundation**
Casey Gold, Operations Manager
106 W. 32nd Street, Suite 182
New York, NY 10001
Phone: (914) 810-9100
Email: cgold@autismsciencefoundation.org
Website: www.autismsciencefoundation.org

The Autism Science Foundation provides funding directly to scientists conducting cutting-edge autism research to discover the cause of autism and develop better treatments. We also provide information about autism to the general public and support the needs of individuals with autism and their families.

---

**Autism Speaks**
Thomas Frazier II, PhD
Chief Science Officer
1 East 33rd St.
New York, NY 02109
Email: info@autismspeaks.org
Website: www.autismspeaks.org

Autism Speaks is dedicated to promoting solutions, across the spectrum and throughout the lifespan, for the needs of individuals with autism and their families through advocacy and support; increasing understanding and acceptance of autism spectrum disorder; and advancing research into causes and better interventions for autism spectrum disorder and related conditions.

Autism Speaks enhances lives today and is accelerating a spectrum of solutions for tomorrow.

---

**Behavior Imaging**
Ron Oberleitner
ron@behaviorimaging.com
Phone: 208-629-8778 x 3

Changing the way researchers observe, assess, and treat autism remotely via our award-winning online health platform, and our apps that clinically guide caregivers to share video data from home or school. By allowing researchers to securely collect and analyze Behavior Images, BI's telehealth technologies are clinically proven to transform autism diagnosis (NODA) and health assessment.

---

**Electrical Geodesics, Inc. (EGI)**
500 East 4th Avenue, Suite 200
Eugene, OR 97401
Phone: (541) 687-7962
Email: info@egi.com
Website: www.egi.com

EGI provides high-definition EEG and neuromodulation systems featuring our child-friendly Geodesic EEG Sensor Net for fast application of up to 256 EEG electrodes without glues or abrasion. EGI also offers integrated stimulus presentation and source imaging software for advanced research applications.

**Geisinger Health System**
Grace Lowry, Physician Recruiter
100 N. Academy Ave.
Danville, PA 17822-2811
Talent Acquisition /Human Resources
Tel: (570) 214-6918
Fax: (570) 271-6988
Email:gblowry@geisinger.edu

Geisinger Health System's Autism & Developmental Medicine Institute (ADMI) in central & northeast Pennsylvania offers a new perspective on the evaluation and treatment of children with special needs. ADMI's vision is to expand and integrate clinical services, research, education, and family support for children with autism and other neurodevelopmental disorders.

---

**Interactive Autism Network**
Kennedy Krieger Institute
3825 Greenspring Avenue
Painter Building, 1st Floor
Baltimore, MD 21211
Phone: (443) 923-4140
Email: ResearchTeam@IANproject.org

The Interactive Autism Network (IAN) is a participant-powered network that facilitates research through its partnership with 55,000+ participants and researchers. IAN engages the public in research through online surveys, a research match, and an inviting online library of autism information. Learn more at our exhibit and www.IANcommunity.org.

---

**Lumos Pharma**
Carol A. Dutch, Senior Director, Patient Engagement
Lumos Pharma, Inc.
4200 Marathon Blvd, Suite 200
Austin, TX 78756
Phone (512) 215-2630
Email: cdutch@lumos-pharma.com

Lumos Pharma, a clinical stage biopharmaceutical company, has a lead compound being designed as a potential treatment for Creatine Transporter Deficiency (CTD), a rare pediatric neurodevelopmental disorder that is often underdiagnosed/misdiagnosed with Autism Spectrum Disorders, Cerebral Palsy, and Intellectual Disability with an unknown etiology. Visit us at our booth and at www.ScreenCreatine.org for more information.

---

**NIH/NIMH**
6001 Executive Boulevard
Rockville, MD 20852

Part of the U.S. Department of Health and Human Services, NIH is the largest biomedical research agency in the world. NIH's mission is to seek knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.

---

**Office of Autism Research Coordination, NIMH/NIH**
Susan Daniels, Ph.D., Director
Email: IACCPublicInquiries@mail.nih.gov

The Office of Autism Research Coordination (OARC) coordinates and manages the Interagency Autism Coordinating Committee (IACC) and related cross-agency autism spectrum disorder (ASD) activities, programs, and policies. The IACC is a federal advisory committee mandated by Congress to coordinate ASD related activities across the U.S. Department of Health and Human Services.

**Prometheus Research**
Rosemarie Gallichio
Director of Marketing
55 Church St 7th Floor
New Haven, CT 06510
Phone 203.672.5845
Email contact@prometheusresearch.com
www.prometheusresearch.com/RexStudy

Prometheus' data management platform, RexStudy, underpins some of the largest and most ambitious projects in the field of autism research. From data centralization and remote collaborations to enrollment reporting and NDAR submissions, Prometheus delivers integrated software solutions and best practices to extraordinary research teams and research consortia. www.PrometheusResearch.com/RexStudy

---

**SensoMotoric Instruments, Inc.**
A. Mark Mento
Director, SMI North America
SensoMotoric Instruments, Inc.
236 Lewis Wharf, Boston, MA 02110
Phone: (617) 557-0010
Email: Mark.mento@smivision.com
Website: www.smivision.com

SMI is a world leader in dedicated computer vision applications, developing and marketing eye & gaze tracking systems and OEM solutions for a wide range of applications such as psychology, neurology and ophthalmology, as well as market and consumer research, usability, ergonomics and HCI. Visit our booth to try the eye tracking solutions yourself!

---

**Simons Foundation**
Anastasia Greenebaum
Communications Director
160 Fifth Avenue, 7th Floor
New York, New York 10010
Phone: (646) 654-0066
Email: agreenebaum@simonsfoundation.org
Website: www.sfari.org

The Simons Foundation Autism Research Initiative (SFARI) seeks to improve the understanding, diagnosis and treatment of autism spectrum disorders by funding innovative research of the highest quality and relevance. SFARI currently funds over 250 investigators in the United States and abroad and spends $75M per year supporting grants and programs for autism research. SFARI also aims to facilitate the field as a whole by developing resources for scientists.

---

**SPARK**
Beverly Robertson
Manager, Participant Engagement
and Outreach, SPARK
Simons Foundation Autism Research Initiative
Phone: 646-362-0080
Email: brobertson@simonsfoundation.org

SPARK's mission is to speed up research and advance the understanding of autism to help improve lives. With a cohort of thousands, the research community will be able to draw on these data for their own research studies. Visit our booth for more details.

---

**Springer**
Judy Jones, Senior Editor
Child & Adolescent Psychology
New York
judy.jones@springer.com
http://www.springer.com/us/behavioral-sciences

Springer's Behavioral Sciences Publishing Program helps researchers in developmental psychology and related disciplines disseminate and publicize their work worldwide. We are actively growing our Developmental Psychology and related-disciplines programs. New book, journal, and major reference work proposals are welcome. The complete Springer Behavioral Sciences portfolio can be viewed at: http://www.springer.com/us/behavioral-sciences.

---

**WPS**
625 Alaska Avenue
Torrance, CA 90503
Phone: (424) 201-8800
Email: customerservice@wpspublish.com
Website: www.wpspublish.com

WPS is the #1 provider of resources for assessing autism spectrum disorders. From brief screeners to comprehensive assessments, WPS tests help you accurately identify, diagnose, and treat ASD. Visit us at booth #3 to receive 10% off and free shipping. Enter to win an assessment kit of your choice including SRS-2 ONLINE!

# NOTES

# SAVE THE DATE!

# INSAR 2018
# Annual Meeting
## (formerly IMFAR)

**May 9-12, 2018**
*de Doelen ICC Rotterdam*
*Rotterdam, Netherlands*

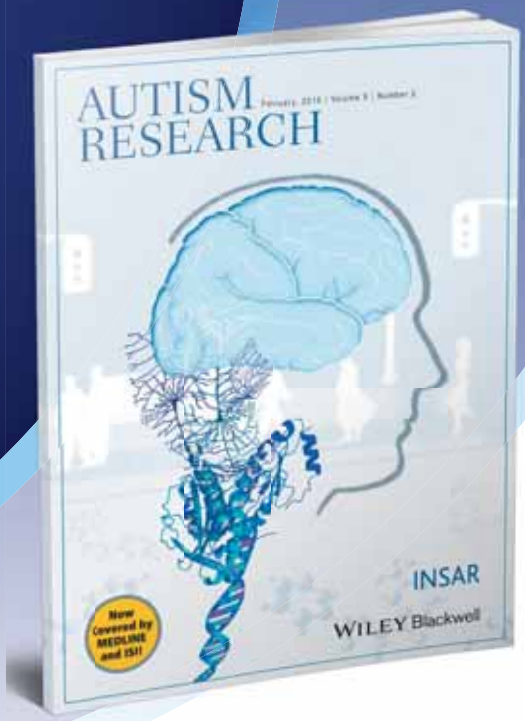
Abstract submission for the 2018 meeting is scheduled to open in early fall 2017.
Watch our website for details.

**www.autism-insar.org**

International Society for Autism Research

# Submit your article to *Autism Research*!

**David G. Amaral, Ph.D.**
**Editor-in-Chief**




## Here's why you should publish with *Autism Research*:

- **World-class, diverse and visionary editorial board,** all experts in their fields
- **Rigorous, high quality and rapid peer review process**
- **Wide readership:** over 100,000 articles downloaded online per year
- **Free access to your article for 10 of your colleagues** – even already-published articles have this free colleague access feature
- **Access in perpetuity** to your published article
- **Open Access option** offers the opportunity to publish your article with open access once it has been accepted for publication
- **No page charges** and no cost for color images online.

The official journal of the International Society for Autism Research

## Submit your research

and keep up-to-date with free content alerts!
**WileyOnlineLibrary.com/journal/AUR**

*Autism Research* focuses on basic genetic, neurobiological and psychological mechanisms and how these influence developmental processes in ASDs.

*Autism Research* authors benefit from Wiley Author Services...With You Every Step of the Way!

**Ease**
Taking the stress out of your publishing experience

**Quality**
Creating the best possible outcome for your research

**Reach**
Connecting your work to a global audience

**Impact**
Generating the maximum impact for your work

Find out more at **https://authorservices.wiley.com/**

INSAR | International Society for Autism Research

Not already an INSAR member?
**Join INSAR** now at **www.autism-insar.org**!
INSAR members get an online subscription to *Autism Research.*

WILEY

17 - 280206

INSAR | International Society for Autism Research

# STRATEGIC INITIATIVES

## INSAR Mission Statement

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

STRATEGIC GOAL #1

### SETTING THE BAR

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

STRATEGIC GOAL #2

### INTERDISCIPLINARY AND TRANSLATIONAL

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

STRATEGIC GOAL #3

### DIVERSE AND GLOBAL

Increasingly represent and serve a diverse and global community.

STRATEGIC GOAL #4

### NEXT GENERATION

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

STRATEGIC GOAL #5

### BUILDING IDENTITY

Promote INSAR as the premier society for autism researchers.

STRATEGIC GOAL #6

### RESEARCH TO PRACTICE

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

STRATEGIC GOAL #7

### PARTNERSHIPS

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