April 3-5, 2019

Hotel Contessa

Luxury Suites on the Riverwalk
San Antonio, Texas

Translational Research on Down Syndrome

Hosted by:
University of California, Davis
University of California, Los Angeles
We extend our gratitude to the following sponsors for their financial contributions and generous support of the 52nd Annual Gatlinburg Conference:

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CONFERECE SUPPORT

This conference is supported by grant number R13HD084155 from the Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institute of Neurological Disorders and Stroke, and the National Institute on Aging.
52nd Annual

Gatlinburg Conference

The Gatlinburg Conference continues its tradition as one of the premier conferences in the United States for behavioral scientists conducting research in intellectual and related developmental disabilities.

## EXECUTIVE COMMITTEE

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<td>Shannon S.C. Bert, Ph.D.</td>
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<td>Lauren Bishop-Fitzpatrick, Ph.D.</td>
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<td>Jan Blacher, Ph.D.</td>
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<td>James Bodfish, Ph.D.</td>
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<td>Brian Boyd, Ph.D.</td>
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<td>Marie Moore Channell, Ph.D.</td>
<td>University of Illinois at Urbana-Champaign</td>
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<td>Joshua Corbin, Ph.D.</td>
<td>Children’s National Health System</td>
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<td>Leann E. Smith DaWalt, Ph.D.</td>
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<td>Jamie Edgin, Ph.D.</td>
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<td>Anna Esbensen, Ph.D.</td>
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<td>Cristan Farmer, Ph.D.</td>
<td>National Institute of Mental Health</td>
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<td>Deborah Fidler, Ph.D.</td>
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<td>Children’s National Health System</td>
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<td>Matthew Goodwin, Ph.D.</td>
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<td>Elizabeth Halstead, Ph.D.</td>
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<td>Tarik F. Haydar, Ph.D.</td>
<td>Boston University</td>
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<td>Susan L. Hepburn, Ph.D.</td>
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<td>Shafali S. Jeste, M.D.</td>
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<td>Marygrace Yale Kaiser, Ph.D.</td>
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<td>Connie Kasari, Ph.D.</td>
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## THEME COMMITTEE

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<td>Angela John Thurman, Ph.D.</td>
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## CONFERENCE MANAGEMENT

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<tr>
<td>Rebecca L. Shilts, Conference Manager</td>
<td>Mobile Phone: 916-753-8659</td>
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<td>Brenda L. Shelton, Conference Co-Manager</td>
<td>Mobile Phone: 916-296-4346</td>
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Visit our website to view symposium and poster abstracts in their entirety at: mindinstitute/gatlinburg/program-schedule.html
Invited Speakers

Anita Bhattacharyya, Ph.D.
University of Wisconsin-Madison

Advancing Knowledge of Down Syndrome Brain Development and Function with Human Stem Cells
Wednesday, April 3 • 8:30–9:30 a.m. • Contessa Ballroom

The formation of the cerebral cortex occurs during prenatal development and mistakes that occur during this time can lead to intellectual disability characteristic of neurodevelopmental disorders such as Down syndrome. Because the prenatal period is not accessible to study, human pluripotent stem cells have emerged as a model system with tremendous potential to unveil cellular and molecular events underlying normal and abnormal cortical development and neuropathology in humans. We have generated trisomy 21 human pluripotent stem cells from individuals with Down syndrome to gain understanding of neurodevelopmental events that lead to neuropathology. Neurons derived from these stem cells recapitulate hallmarks of Down syndrome cortical neurons and we are now focusing on the developmental mechanisms that cause these phenotypes and others. The information we glean from these studies may help us intelligently design therapeutic targets for individuals with Down syndrome.

George T. Capone, M.D.
Kennedy Krieger Institute

What’s Missing from our Current Research Approach to Down Syndrome?
Prompting Innovation in the Biobehavioral and Medical Communities
Wednesday, April 3 • 4:30–5:30 p.m. • Contessa Ballroom

People with Trisomy 21 - Down syndrome (DS) have unique features regarding their genetic, biologic and physiologic attributes that affect development starting in the embryonic period and continuing throughout life. Important manifestations include non-typical brain development, organization and maturation which impacts subsequent development, behavior, cognition and language functions. In humans, research into these aspects of the condition has tended to focus on the most salient features of observable phenomenon while underlying biologic and physiologic regulatory mechanisms remain less well studied. I will discuss several strategies that offer promise for better understanding these phenomena and serve to strengthen collaborative research in our community.
Invited Speakers

Benjamin L. Handen, Ph.D., BCBA-D
University of Pittsburgh School of Medicine

The Search for Biomarkers of Alzheimer’s Disease in Down Syndrome
Thursday, April 4 • 8:00–9:00 a.m. • Contessa Ballroom

Adults with Down syndrome are at significantly greater risk than the general population for developing Alzheimer’s disease (AD). Indeed, nearly all adults with Down syndrome evidence neuropathology of AD by their fourth decade of life and more than half of adults with Down syndrome exhibit clinical symptoms of AD by their 60’s. The early onset and increased incidence of AD in adults with Down syndrome is attributed to the overproduction of amyloid-β due to the triplication of chromosome 21, which contains the gene for the amyloid precursor protein (APP) involved in the production of amyloid-β. The accumulation of amyloid-β plaques is followed by a cascade of events, including the development of neurofibrillary tangles of the protein tau, overall brain volume loss and ventricular expansion. These changes begin 15-20 years prior to the onset of clinical symptoms of AD. Given the high rate of AD among adults with Down syndrome, this group of individuals provides a unique opportunity to study potential AD biomarkers, their course and impact on cognitive and adaptive functioning. This presentation will provide an overview of an ongoing multicenter, longitudinal, National Institute on Aging funded project (ABC-DS: The Alzheimer’s Biomarker Consortium – Down Syndrome) to examine biomarkers of AD in Down syndrome, will share some initial findings and discuss future directions for the field.

Tarik F. Haydar, Ph.D.
Boston University

Neurogenesis, Myelination and Circuitry: The Case for a Distributed Therapeutic Regimen in Down Syndrome
Friday, April 5 • 9:30–10:30 a.m. • Contessa Ballroom

More than a century of research has been conducted to elucidate the biology behind the intellectual and motor disabilities in Down syndrome (DS). Multiple areas in the central nervous system (CNS) are now known to undergo developmental or functional changes, including the hippocampus, cerebral cortex, cerebellum and basal forebrain. Our recent studies have indicated that triplication of chromosome 21 in the brain leads to alterations throughout the genome and that the magnitude of these alterations varies depending on age, brain area and cell type. Here, I will present our data on neurogenesis and gliogenesis and highlight some as yet unpublished work on spinal cord development. There are several preclinical and clinical trials currently underway throughout the world to ameliorate the sources of intellectual disability in DS. Because these therapeutic approaches target changes occurring in different parts of the CNS at different times in development, it is likely that multiple approaches will be needed for people with DS, ideally beginning before birth and continuing until adulthood.
TUESDAY
APRIL 2, 2019

1:30 p.m. – Pre-Conference Check-in / Registration
Contessa Ballroom Foyer

2:00–5:00 p.m.
Performing and Understanding EEG Research in Intellectual and Developmental Disabilities
Contessa Ballroom B
Presenters: Shafali Jeste, Joshua Ewen, Sophie Molholm, John Foxe, Abigail Dickinson

5:00–7:00 p.m.
Gatlinburg Statistic and Methodology: Promoting Reproducible Science through Strong Data Management
Contessa Ballroom B
Presenters: Cristan Farmer, Aaron Kaat

WEDNESDAY
APRIL 3, 2019

7:30 a.m. – Check-in / Registration
Contessa Ballroom Foyer

8:00–8:30 a.m.
OPENING REMARKS
Contessa Ballroom
Leonard Abbeduto, Ph.D., Conference Chair
University of California, Davis
Connie Kasari, Ph.D., Conference Co-Chair
University of California, Los Angeles

8:30–9:30 a.m.
PLENARY SESSION 1
Contessa Ballroom
Advancing Knowledge of Down Syndrome
Brain Development and Function with Human Stem Cells
Presenter: Anita Bhattacharyya, Ph.D.
University of Wisconsin-Madison

9:30–10:00 a.m. — BREAK
Refreshments in Retama / Mesquite Rooms

10:00–11:00 a.m.
SYMPOSIUM 1
Contessa Ballroom A
Communication Interventions for Children with Down Syndrome
Chair: Nancy Brady
University of Kansas
Discussant: Steve Warren
University of Kansas
Review of Communication and Language Interventions for Children with Down Syndrome
Shelley Bredin-Oja, Steve Warren, Laura Hahn, Nancy Brady

Parent-Implemented Augmented Language Intervention and Young Children with Down Syndrome: An Exploratory Report
MaryAnn Romski, Rose Sevcik, Andrea Barton-Hulsey, Evelyn Fisher, Marika King, Phebe Albert, Gal Kaldes, Casy Walters
Visual-Perceptual Characteristics of Augmentative and Alternative Communication Displays Influence Allocation of Visual Attention as well as Functional Communication Outcomes in Adolescents and Young Adults with Down Syndrome
Krista Wilkinson, Rachel Bennett, Caroline Fehr

Validity of Language Measures in Children with Down Syndrome
Alison Holbrook, Christina Kang Toolan, Connie Kasari
10:00–11:00 a.m.

**SYMPOSIUM 2**

**Contessa Ballroom B**

**Using Eye Tracking and Brain Data to Evaluate Speech and Language Processing in Neurodevelopmental Disorders: New Options for Difficult to Test Populations**

Chair: Alexandra P. Key
Vanderbilt University

Discussant: Ann Kaiser
Vanderbilt University

Using Eye-Gaze Methods to Measure Language Comprehension in Children with Autism Spectrum Disorder
Courtney Venker, Sara Kover

Is Child-Directed Speech a Better Index of Word Processing than Adult-Directed Speech in Typically Developing Toddlers and Children with Autism Spectrum Disorder?
Michal Sandbank

Assessing Auditory Learning and Memory in Nonverbal Individuals with Angelman Syndrome: ERP Evidence
Alexandra Key, Dorita Jones, Sarika Peters, Caitlin Dold

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11:15–12:15 p.m.

**SYMPOSIUM 3**

**Magnolia**

**Comorbid Anxiety among Individuals with Autism Spectrum Disorder: Symptom Presentation, Risk Correlates, and Treatment Outcomes**

Chair: Cameron L. Neece
Loma Linda University

Discussant: Jane Roberts
University of South Carolina

Anxiety in Preschool Aged Children with and without Autism Spectrum Disorder: Rates and Risk Correlates
Neilson Chan, Hadley McGregor, Amanda Preston, Cameron Neece

Examining the Impact of Anxiety on Treatment Outcome for Teens and Young Adults with Autism Spectrum Disorder and Other Social Impairments
Nicole Rosen, Morgan Jolliffe, Elizabeth Laugeson

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10:00–11:00 a.m.

**SYMPOSIUM 4**

**Contessa Ballroom A**

**Language and Literacy Interventions for Students with Down Syndrome: Current Empirical Evaluations and Next Steps for Future Research**

Chair: Christopher Lemons
Peabody College of Vanderbilt University

Chair: Sue Buckley
Down Syndrome Education International

**DSL+ An Effective Vocabulary Intervention for Children with Down Syndrome?**
Kari-Anne Næss, Silje Hokstad, Liv Inger, Liz Smith

**An Evaluation of a Language Intervention for Children with Down Syndrome**
Rebecca Baxter, Charles Hulme, Rachel Rees, Alexandra Perovic

**Enhancing the Shared Book Reading Interactions of Parents and Young Children with Down Syndrome**
Kelly Burgoyne, Kate Cain

**Phonological Awareness Intervention for Preschoolers with Down Syndrome**
Christopher Lemons, Lauren LeJeune, Samantha Gesel

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11:15–12:15 p.m.

**SYMPOSIUM 5**

**Contessa Ballroom B**

**Mental Health and Intellectual Disabilities**

Chair: Angela Henderson
University of Glasgow

**The Relative Influence of Intellectual Disabilities and Autism on Mental and General Health: A Cross-Sectional Study of a Whole Country of 5.3 Million Children and Adults**
Deborah Kinnear, Ewelina Rydzewska, Kirsty Dunn, Laura Hughes-McCormack, Craig Melville, Angela Henderson, Sally-Ann Cooper
Incidence of Depression and Mania in Adults with Intellectual Disabilities
Sally-Ann Cooper, Elita Smiley, Linda Allan, Jill Morrison

The Experience of Caring for a Son or Daughter with Intellectual Disabilities: Older Father Carers’ Perspectives
Kirsty Dunn, Andrew Jahoda, Deborah Kinnear

11:15–12:15 p.m.

SYMPOSIUM 6
Magnolia
Graduate Student Presentations

Pharmacologically Restoring White Matter Deficits in a Mouse Model of Down Syndrome
Presenter: Patricia Rein
Boston University

Two to Eleven Years: Exploring Early Predictors of Development in Children with ASD
Presenter: Maria Pizzano
University of California, Los Angeles

Use of Parent-Child Language Samples to Assess Child Language Abilities in a Clinic and from a Distance
Presenter: Lauren Bullard
University of California, Davis

Predictors of Word Combinations by Toddlers Who Participated in Parent-Coached Language Interventions
Presenter: Gal Kaldes
Georgia State University

Language Switching and AAC: An Investigation of Spanish-English Bilingual Children with and without Language Impairments
Presenter: Marika King
Georgia State University

12:15–1:45 p.m. — LUNCH

1:45–2:45 p.m.

SYMPOSIUM 7
Contessa Ballroom A
Social and Communicative Functioning in Down Syndrome: A Developmental Perspective
Chair: Marie Moore Channell
University of Illinois at Urbana-Champaign
Chair: Laura J. Hahn
University of Illinois at Urbana-Champaign
Discussant: Anna Esbensen
Cincinnati Children’s Hospital Medical Center

Trajectories of Early Communication in Infants and Toddlers with Down Syndrome
Laura Hahn

Trajectories of Mental State Language Use in School-Age Children with Down Syndrome
Marie Moore Channell

Peer Victimization in Adolescents with Down Syndrome
Jenna Reardanz, Frances Conners, Kristina McDonald

Post-High School Transitioning Outcomes for Young Adults with Down Syndrome
Susan Loveall, Marie Moore Channell, Meghan Burke

1:45–2:45 p.m.

SYMPOSIUM 8
Contessa Ballroom B
Novel Approach for the Development of Translational Biomarkers and Treatment Outcomes in Neurodevelopmental Disorders: Case Examples in Fragile X Syndrome and Related Disorders
Chair: Rebecca Shaffer
Cincinnati Children's Hospital Medical Center
Discussant: David Hessl
University of California, Davis

Novel EEG Approaches to Examine Expressive Language and Cognitive Flexibility Deficits in Fragile X Syndrome
Lauren Schmitt, Jun Wang, Ernest Pedapati, Craig Erickson, John Sweeney
Utilizing a Biobehavioral Model of Visual Attention to Discriminate Outcomes in Infants at High Risk for Autism Spectrum Disorder
Debra Reisinger, Elizabeth Will, Jane Roberts

Gaze Tracking and Gaze Aversion Detection in a Study of Social Anxiety in Fragile X Syndrome
Michael Hong, Lauren Schmitt, Rebecca Shaffer, Debra Reisenger, Ernest Pedapati, Craig Erickson

Features of Resting State fNIRS Signal in Toddlers Predict Neural Activation to Language and Later Language Outcomes
Elizabeth Smith, Afrouz Anderson, Emma Condy, Audrey Thurm, Elizabeth Redcay, Amir Gandjbakhche

Static and Dynamic Postural Control Deficits in Aging Fragile X Mental Retardation 1 (FMR1) Gene Premutation Carriers
Zheng Wang, Pravin Khemani, Lauren Schmitt, Su Lui, Matthew Mosconi

1:45–2:45 p.m.

SYMPOSIUM 9
Magnolia
Moving Beyond Ethnic Disparities in ASD: Transforming Cultural Strengths into Tangible Tools
Chair: Shana R. Cohen
University of California, San Diego
Discussant: Sandy Magaña
University of Texas at Austin

Understanding the ASD Referral Process of First-Generation Immigrant Mothers Who Rear Children with ASD
Jessica Miguel, Jessica Trejos Canela, Shana Cohen

From Screening to Services: A Follow-Up of Latino Parents with Children At-Risk of ASD
Ann Marie Martin, Yasmine Bolourian, Jan Blacher

Examining the Daily Routines and Activities of Immigrant Families and their Children with ASD
Shana Cohen, Jessica Miguel

Parents Taking Action: Influence of Community Health Worker Engagement with Latina Mothers of Children with Autism Spectrum Disorder
Kristina Lopez, Sandy Magaña, Mariana Garcia, Jessica Marroquin

3:00–4:00 p.m.

SYMPOSIUM 10
Contessa Ballroom A
Mechanisms and Functional Consequences of Motor Impairments across Down Syndrome, Fragile X, Autism, and Single Gene Mutations
Chair: Elizabeth Will
University of South Carolina
Discussant: Brittany Travers
University of Wisconsin-Madison

Motor Impairments in Infants and Toddlers with Down Syndrome: Implications for Language and Cross-Syndrome Comparisons to Fragile X Syndrome
Elizabeth Will, Jane Roberts

The Pull to Sit Task: Examining the Role of Early Motor Development in the Emergence of Social-Communication Abilities in High-Risk Infants
Jessica Bradshaw, Dexin Shi, Ami Klin, Warren Jones, Cheryl Klaiman

Motor Development, the Brain, and Genetics: Is there a Converging Biological Pathway in ASD?
Caitlin Hudac, Monique Mahony, Anne Arnett, Arianne Wallace, Jennifer Gerds, Evan Eichler, Sara Jane Webb, Raphael Bernier

3:00–4:00 p.m.

SYMPOSIUM 11
Contessa Ballroom B
Measurement in Down Syndrome: Examining Heterogeneity in Developmental Syndromes
Chair: Aaron Dallman
University of North Carolina at Chapel Hill
Discussant: Anna Esbensen
Cincinnati Children’s Hospital

Behavioral Inflexibility: Comparison of Down Syndrome and Autism
Aaron Dallman, Clare Harrop, Brian Boyd, Luc Lecavalier, James Bodfish

Measuring Executive Functioning Profiles and Development in Young Children with Down Syndrome
Amanda Dimachkie, Kyle Sterrett, Lauren Baczewski, Alison Holbrook, Connie Kasari
WEDNESDAY

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The Measurement of Peer Victimization, Emotion Regulation, and Self-Esteem in Adolescents with Down Syndrome: A Pilot Study
Jenna Reardanz, Frances Conners, Kristina McDonald

3:00–4:00 p.m.

SYMPOSIUM 12
Magnolia
Enhancing Scalability of Clinical Trials in Rare Disorders: Strategies in Remote Assessment and Intervention
Chair: Shafali Jeste
University of California, Los Angeles
Discussant: Len Abbeduto
University of California, Davis

Parent-Administered Remote Developmental Assessment (PANDA) for Down Syndrome and Other Neurogenetic Syndromes
Bridgette Tonnsen, Taylor Halligan, Wei Siong Neo

Jasper Early Intervention in TSC (JETS): Methods to Enhance Study Participation and Scalability
Shafali Jeste, Nicole McDonald, Carly Hyde, Connie Kasari

Pharmacological Trials with Language Intervention in Fragile X Syndrome
Elizabeth Berry-Kravis, Len Abbeduto, Andrea McDuffie

4:00–4:30 p.m. — BREAK
Refreshments in Retama / Mesquite Rooms

4:30–5:30 p.m.

PLENARY SESSION 2
Contessa Ballroom
What’s Missing from our Current Research Approach to Down Syndrome? Prompting Innovation in the Biobehavioral and Medical Communities
Presenter: George T. Capone, M.D.
Kennedy Krieger Institute

Thank you to our new Exhibitor

NORTHWESTERN UNIVERSITY
FEINBERG SCHOOL OF MEDICINE

for your support of the 2019 Gatlinburg Conference!

2019 Exhibitor

A special “Thank You” to

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**POSTER RECEPTION 1** (Poster Numbers 1-38)
Laurel / Cedar

*This is a mandatory session for all travel award recipients.*

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<td>Stability of Metrics of Audiovisual Integration in Children with Autism Spectrum Disorder</td>
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<td>What Skills are Lost When Children with Fragile X Syndrome Experience Declines in Adaptive Behavior?</td>
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**Poster Reception 1**
(Poster Numbers 1-38)

**Laurel / Cedar**

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<td>University of California, Los Angeles</td>
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<td>Examining the Relationship between Social Awareness and Family Loneliness among Young Adults with ASD and other Social Impairments</td>
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<td>Karen Weigle</td>
<td>University of New Hampshire</td>
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<td>Mental and Physical Health Conditions of Individuals with Intellectual and Developmental Disabilities (IDD) with and without Down Syndrome (DS)</td>
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<td>Silje Hokstad</td>
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<td>Language Intervention for Children With Down Syndrome: The Impact Of Implementation Quality On Intervention Effects, Preliminary Findings</td>
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<td>Madison Crandall</td>
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<td>Children with Autism Spectrum Disorder May Learn from Caregiver Verb Input Better in Certain Engagement States</td>
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<td>Predictors of Individual Differences in Language Abilities in Youth with Neurodevelopmental Disorders: Examining the Executive Function and Social Correlates of Structural and Pragmatic Language in Down Syndrome and Autism Spectrum Disorder</td>
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<td>University of Wisconsin-Madison</td>
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<td>Language Dysfluencies in Families with Adult Children with Autism Spectrum Disorder</td>
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<td>Mary Godfrey</td>
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<td>An Examination of the Memory Profile of Children with Down Syndrome: Evidence for Impaired Short-Term, Long-Term, And Working Memory Impairments and Relations to Intellectual and Adaptive Functioning</td>
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<td>Deborah Rafferty</td>
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<td>Associations between Depressive Symptoms, Parent-Child Relationship Quality, and Marital Quality for Mothers and Fathers of Children with Autism Spectrum Disorder</td>
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<td>Lauren Tidman</td>
<td>Texas Christian University</td>
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<td>Co-parenting and Life Satisfaction of Parents of Children with Autism Spectrum Disorder</td>
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<td>Abdullah Alatawi</td>
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<td>Effectiveness of Video Modeling Interventions on Play Skills for Students with Autism Spectrum Disorder: A Systematic Review</td>
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<td>Lisa Hilliard</td>
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<td>A Comparison of the Conversational and Narrative Grammatical Abilities of Verbally Expressive Adolescents with Fragile X Syndrome</td>
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<td>Kinematic Assessment of Reaching Movements in School-Aged Children with Down Syndrome (DS)</td>
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<td>Cortisol Response to Standardized Pain and Sensory Examinations in Rett Syndrome</td>
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<td>Expressive Language Development in Adolescents with Down Syndrome and Fragile X Syndrome: Change Over Time and the Role of Family-Related Factors</td>
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<td>Stressful Parenting Interacts with Low Zone CGG Repeat Length: Gene by Environment Interaction</td>
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<td>Using Special Education Advocates: Family Needs, Processes, and Outcomes</td>
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<td>Margaret Cassidy</td>
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<td>Relations between Sensory Responsiveness and Broader Symptomatology in Children with and without Autism</td>
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<td>Emi Gomez</td>
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<td>How Negative Family Implications and Anxiety Influence Parenting Sense of Competence of Mothers with Children with ASD</td>
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<td>Maggie Carrell</td>
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<td>Examining Religiosity/Spirituality in Mothers of Children with Autism Spectrum Disorder: How to Improve Mental Health Outcomes</td>
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<td>Alexandra Key</td>
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<td>Language Abilities in Young Children with Down Syndrome are Associated with Multiple Stages of Speech Processing in the Brain</td>
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<td>Emily Schworer</td>
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<td>Early Motor and Communication Development in Infants with Down Syndrome</td>
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### THURSDAY

**APRIL 4, 2019**

- **7:30 a.m. – Check-in / Registration**
  Contessa Ballroom Foyer

- **8:00–9:00 a.m.**
  **PLENARY SESSION 3**
  Contessa Ballroom
  The Search for Biomarkers of Alzheimer’s Disease in Down Syndrome
  Presenter: Benjamin L. Handen, Ph.D., BCBA-D
  University of Pittsburgh

- **9:00–9:30 a.m. — BREAK**
  Refreshments in Retama / Mesquite Rooms

- **9:30–10:30 a.m.**
  **SYMPOSIUM 13**
  Contessa Ballroom A
  Naturalistic Developmental Behavioral Interventions (NDBIs): Expanding Intervention Programs and Developing Assessment Tools for Children with Diverse Neurodevelopmental Disabilities
  Chair: Grace Gengoux
  Stanford University School of Medicine
  Discussant: Amanda Gulsrud
  University of California, Los Angeles
  Early Developmental Profiles in Children with Down Syndrome and Children with ASD: Implications for Intervention
  Lauren Baczewski, Alison Holbrook, Justin Williams, Lindsay Hauptman, Cassin Gonzales, Amanda Gulsrud, Connie Kasari
  Expanding Beyond Autism: Effects of Pivotal Response Treatment for Children with Diverse Neurodevelopmental Disabilities
  Jessica Schwartzman, Kristen Ashbaugh, Rachel Schuck, Christina Ardel, Robin Libove, Antonio Hardan, Grace Gengoux
  Using the Brief Observation of Social Communication Change (BOSCC) to Evaluate Change in Parent-Child Interaction Following Pivotal Response Treatment (PRT)
  Melanie Fox, Jennifer Phillips, Chelsea Acker, Christina Ardel, Antonio Hardan, Grace Gengoux
  Identifying and Measuring Common Elements of Naturalistic Developmental Behavioral Interventions: Development of the NDBI-Fi
  Kyle Frost, Brooke Ingersoll

- **9:30–10:30 a.m.**
  **SYMPOSIUM 14**
  Contessa Ballroom B
  Advancing Research on Alzheimer’s Disease in Down Syndrome: Insight into Early Detection and Characterization of Neuropathological and Cognitive Features
  Chair: Sigan L Hartley
  University of Wisconsin-Madison
  Discussant: Anna Esbensen
  Cincinnati Children’s Hospital
  Individual Differences in Lifelong Cognitive Abilities Must be Considered for Staging MCI and AD-Dementia in Adults with Down Syndrome
  Sharon Krinsky-McHale, Joseph Lee, Nicole Schupf, Florence Lai, H. Diana Rosas, Ira Lott, Christy Hom, Margaret Pulsifer, Wayne Silverman
  Cerebrovascular Pathology as a Function of Age and Alzheimer Disease in Down Syndrome
  Elizabeth Head, Frederick Schmitt, Ira Lott, Alex Helman
  Neuroimaging Biomarkers in Down Syndrome
  Karly Cody, Patrick Lao, Dana Tudorascu, Annie Cohen, Sigan Hartley, Peter Bulova, Rameshwari Tumuluru, William Klunk, Benjamin Handen, Bradley Christian
  Cognitive Declines Associated with Mild Cognitive Impairment and Alzheimer’s Disease in Adults with Down Syndrome
  Sigan Hartley, Benjamin Handen, Iulia Mihaila, Patrick Lao, Karly Cody, William Klunk, Dana Tudorascu, Bradley Christian
9:30–10:30 a.m.

**SYMPOSIUM 15**

*Magnolia*

Physical and Mental Health in Adults on the Autism Spectrum  
Chair: Lauren Bishop-Fitzpatrick  
University of Wisconsin-Madison  
Discussant: Julie Lounds Taylor  
Vanderbilt Kennedy Center

The Impact of Intellectual Disability on the Physical and Mental Health of Middle Aged and Older Adults on the Autism Spectrum  
Lauren Bishop-Fitzpatrick, Eric Rubenstein

Mental and Physical Health Conditions Observed in Cases of Suicide Deaths with and without Autism Spectrum Disorder  
Anne Kirby, Amanda Bakian, Deborah Bilder, Yue Zhang, Hilary Coon

What Do Community Mental Health Clinicians and Agency Leaders Need to Treat Autistic Adults?  
Brenna Maddox, Samantha Crabbe, David Mandell

10:45–11:45 a.m.

**SYMPOSIUM 16**

*Contessa Ballroom A*

Addressing ASD Service-Use Disparities across the Lifespan in Minority Populations  
Chair: Monica L. Gordillo  
Boston University  
Discussant: Sandy Magaña  
University of Texas at Austin

Racial, Ethnic, and Socioeconomic Disparities Over the Transition to Adulthood among Adolescents and Young Adults with Autism Spectrum Disorders: A Systematic Review  
Jenna Sandler Eilenberg, Madison Paff, Ashley Johnson Harrison, Kristin Long

Cultural Considerations for Future Planning: Focus on Latino Families of Adults with Autism  
Monica Gordillo, Gael Orsmond, Kristin Long

10:45–11:45 a.m.

**SYMPOSIUM 17**

*Contessa Ballroom B*

From Brain to Cognition to Health: A Translational Approach to Understand and Improve Health and Behavioral Outcomes in Developmental Disabilities  
Chair: Gregory Wallace  
The George Washington University  
Chair: Nancy Raitano Lee  
Drexel University  
Discussant: Sigan Hartley  
University of Wisconsin-Madison

Health and Academic Achievement in Youth with Down Syndrome: Evidence for Poorer Reading Outcomes in those with Parent-Reported Sleep Disturbance but Not Congenital Heart Defects  
Megan Perez, Moshe Maiman, Mary Godfrey, Manisha Udhnnani, Taralee Hamner, Catherine Stephan, Rebecca LaQuaglia, Nancy Raitano Lee

Neuroanatomic Correlates of Poor Sleep in Youth with Down Syndrome: Regionally Specific Differences in Brain Morphometry Differentiate Youth with DS with and without Suspected Sleep Disturbance  
Nancy Raitano Lee, Elizabeth Adeyemi, Liv Clasen, Jay Giedd

Eating Habits and their Cognitive, Neural, and Health Correlates in Autism  
Gregory Wallace, Emily Richard, Anna Schnizler, Jason Crutcher, Kelsey Csumitta, Jason Avery, Lauren Kenworthy, Alex Martin

The BUFFET Program: A Cognitive Behavior Therapy Approach to Food Selectivity in School-Age Children with ASD  
Emily Kuschner, Ashley deMarchena, Brenna Maddox, Hannah Morton, Laura Anthony, Judy Reaven, Elizabeth Parks Prout

Perspectives of Promotoras and Parents on a Family-Centered Pilot Intervention for Promoting Participation among Latino Children with Autism Spectrum Disorder  
Yue Xu, Mansha Mirza, Ashley Stoffel, Sandy Magaña
10:45–11:45 a.m.

SYMPOSIUM 18
Magnolia
Environmental Risk Factors Associated with Chromosome 21 Nondisjunction
Chair: Jessica Ezzell Hunter
Center for Health Research
Discussant: Deborah Fidler
Colorado State University
The Association between Maternal Occupation and Down Syndrome: A Report from the National Down Syndrome Project
Colleen Keen, Jessica Ezzell Hunter, Emily Graves Allen, Carissa Rocheleau, Martha Waters, Stephanie Sherman
Metabolomic Patterns in Second-Trimester Amniotic Fluid and Maternal Serum Associated with Fetal Trisomy 21
Stephanie Sherman, Taylor Fischer, Allyson Mateja, Dean Jones, Shuzhao Li, Yating Wang, Vilinh Tran, Kim Stewart, Charles Schwartz, Judith Fridovich-Keil
Maternal Folic Acid Supplementation and Congenital Heart Defects in Down Syndrome
Alexander Evans, Tracie Rosser, Emily Allen, Jonathan Chernus, Stephanie Sherman, Eleanor Feingold

1:30–2:30 p.m.

SYMPOSIUM 20
Contessa Ballroom B
Behavioral Phenotyping: Natural History Data from Genetic Conditions Affecting Neurodevelopment and Testing the Limits of Measures
Chair: Cristan Farmer
National Institute of Mental Health
Chair: Audrey Thurm
National Institute of Mental Health
Discussant: Shafali Jeste
University of California, Los Angles
Behavioral Phenotyping of Genetic Disorders Comprising Developmental Synaptopathies: Tuberous Sclerosis Complex, PTEN Hamartoma Tumor Syndrome, and Phelan-McDermid Syndrome
Latha Soorya, Audrey Thurm, Cristan Farmer, Alexander Kolevzon, Joseph Buxbaum, Elizabeth Berry Kravis, Craig Powell, Jon Bernstein, Charis Eng, Darcy Krueger, Mustafa Sahin
Preliminary Behavioral Phenotyping Results from the First Natural History Study of Creatine Transport Deficiency
Judith Miller, Cristan Farmer, Rebecca Thomas, Manisha Udhnani, Audrey Thurm
Developmental and Behavioral Characteristics of Children with Dup15q Syndrome
Charlotte DiStefano, Carly Hyde, Vidya Saravandipan, Rujuta Wilson, Shafali Jeste
Empirical Evaluation of Common Methods for the Measurement of IQ and Adaptive Behavior in Trials with Rare Genetic Conditions
Cristan Farmer, Vanessa Bal, Audrey Thurm, Colby Chlebowski

12:00–1:30 p.m. — LUNCH

1:30–2:30 p.m.

SYMPOSIUM 19
Contessa Ballroom A
Neurophysiological Indicators of ASD-Related Behavioral Phenotypes
Chair: Abigail L. Hogan
University of South Carolina
Discussant: Shafali Jeste
University of California, Los Angeles
Infant ERP Responses and Later Emerging Symptoms of ASD in Etiologically-Distinct High-Risk Groups
Maggie Guy, Abigail Hogan, John Richards, Jane Roberts
Associations between ERP Responses to Social Stimuli and ASD Symptoms in “Unaffected” Siblings of Children with Autism Spectrum Disorder
Abigail Hogan, Conner Black, Jessica Escorcia, Margaret Guy, John Richards, Jane Roberts
Investigating Sensory Subtypes Using Auditory ERPs in Young Children with Autism and Typical Development
Patrick Dwyer, Xiaodong Wang, Rosanna De Meo-Monteil, Fushing Hsieh, Clifford Saron, Susan Rivera
1:30–2:30 p.m.

**SYMPOSIUM 21**

**Magnolia**

Examining Social Behavior and its Physiological Correlates in Boys and Girls with Intellectual and Developmental Disability

Chair: Jennifer Bruno
Stanford University

Co-Chair: Ellen Wilkinson
Stanford University

Discussant: David Hessl
University of California, Davis

Reliability and Validity of a Screening Tool for Measuring Social Gaze Avoidance in Boys with Developmental Disabilities

Ellen Wilkinson, Scott Hall

Examining the Specificity of a Behavioral Skills Training Package for the Treatment of Social Gaze Avoidance in Fragile X Syndrome

Tobias Britton, Caitlin Gannon, Scott Hall

Social Behavior and Brain Activation Patterns in Girls with Fragile X Syndrome

Jennifer Bruno, Matthew Marzelli, Amy Lightbody, Cindy Lee, Kristi Bartholomay, Allan Reiss

2:45–3:45 p.m.

**SYMPOSIUM 23**

**Contessa Ballroom B**

Congenital Infections and Intellectual and Developmental Disabilities: Child and Family Consequences of Congenital Zika Syndrome

Chair: Anne C. Wheeler
RTI International

Discussant: Audrey Thurm
National Institute of Mental Health

Developmental Profiles of Toddlers with Congenital Zika Syndrome

Anne Wheeler, Danielle Toth, Camila Ventura, Liana Ventura, Lucélia Lima Nobrega, Raine Costa Borba Firmino, Claudia Marques da Silva, Don Bailey

Caregiving Stress and Mental Health Effects among Parents of Children with Congenital Zika Syndrome

Danielle Toth, Anne Wheeler, Don Bailey, Camila Ventura, Liana Ventura, Lucélia Lima Nobrega, Raine Costa Borba Firmino, Claudia Marques da Silva

Family Outcomes of Congenital Zika Syndrome in Brazil

Don Bailey, Anne Wheeler, Danielle Toth, Amanda Wylie, Melissa Raspa, Camila Ventura, Liana Ventura

2:45–3:45 p.m.

**SYMPOSIUM 24**

**Magnolia**

Object Exploration and Developmental Outcomes in Infants and Young Children with Down Syndrome

Chair: Deborah J. Fidler
Colorado State University

Discussant: Anna Esbensen
Cincinnati Children's Hospital

Antipsychotic, Antidepressant and Attention Deficit Hyperactivity Disorder (ADHD) Drug Prescribing in Children and Young People with Intellectual Disabilities and with Autism in Scottish Schools Compared with Other Children and Young People

Angela Henderson, Deborah Kinnear, Bethany Stanley, Nicola Greenlaw, Michael Fleming, Jill Pell, Colin McCowan, Sally-Ann Cooper
Object Exploration in Infants with and without Down Syndrome
Maninderjit Kaur, Amy Needham

The Role of Perception and Motor Action in the Cognitive Development of Infants with Down Syndrome
Lisa Daunhauer, Deborah Fidler, Emily Schworer, Amy Needham

Exploratory Behavior and Developmental Skill Acquisition in Infants with Down Syndrome
Deborah Fidler, Emily Schworer, Mark Prince, Elizabeth Will, Amy Needham, Lisa Daunhauer

3:45–4:15 p.m. — BREAK
Refreshments in Retama / Mesquite Rooms

4:15–5:15 p.m.
NIH Updates
Contessa Ballroom B
Presenters: Sujata Bardhan, Ph.D. and Tracy King, M.D., M.P.H.
National Institute of Child Health and Human Development

SPECIAL RECOGNITION

Thank you to VANDERBILT KENNEDY CENTER for their generous support of the 2019 Gatlinburg Conference!
**THURSDAY**

**APRIL 4, 2019**

- 5:30–7:00 p.m.

**POSTER RECEPTION 2** (Poster Numbers 39–76)

Laurel / Cedar

*This is a mandatory session for all travel award recipients.*

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<td><strong>Lindsay DuBois</strong>&lt;br&gt;Special Olympics International</td>
<td>Body Mass Index and Physical Activity among Special Olympics Athletes Worldwide</td>
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<td>40</td>
<td><strong>Carla Wall</strong>&lt;br&gt;University of South Carolina</td>
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<td><strong>Emily Hickey</strong>&lt;br&gt;Boston Medical Center</td>
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<td><strong>Sweeya Raj</strong>&lt;br&gt;Vanderbilt University</td>
<td>Parent-Child Engagement and Sensory Responsiveness in Infants at High Risk for Autism Spectrum Disorder</td>
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<td>Mathematical Abilities of 9-Year-Old Children with Williams Syndrome</td>
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<td><strong>Julia Zukin</strong>&lt;br&gt;University of California, Los Angeles</td>
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<td><strong>Arezoo Movaghar</strong>&lt;br&gt;University of Wisconsin-Madison</td>
<td><em>FMRI</em> Premutation Phenotypes in a Population-Based Sample</td>
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<td>Comparing the Construct Validity of Conventional and Automated Vocalization Measures for Young Children with Autism Spectrum Disorder</td>
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<td><strong>Allison Birnsohn</strong>&lt;br&gt;Cincinnati Children’s Hospital</td>
<td>Clinical Correlates of Sluggish Cognitive Tempo in Adolescents with Autism Spectrum Disorder</td>
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<td>Leisure Time and Family Functioning in Families Living with Autism Spectrum Disorder</td>
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<td><strong>Alexandria Cook</strong>&lt;br&gt;Oregon Health and Science University</td>
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THURSDAY

APRIL 4, 2019

5:30–7:00 p.m.

POSTER RECEPTION 2 (Poster Numbers 39-76)
Laurel / Cedar

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<td>University of Louisville     Parent of Origin, Age and Sex Effects on the Intellectual and Behavioral Phenotype of Children with Williams Syndrome</td>
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<td>Chelsea Armour</td>
<td>Children's National Health System                                    Profile of Executive Function Deficits in Individuals with and without Autism Spectrum Disorder and Intellectual Disability</td>
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<td>Danielle Toth</td>
<td>RTI International                                                     Characteristics of Feeding Difficulties in Children with Congenital Zika Syndrome (CZS)</td>
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<td>Jenny Klein</td>
<td>Boston University School of Medicine                                 Abnormalities in Spinal Cord Development of the Ts65Dn Mouse Model of Down Syndrome</td>
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<td>Andrea Barton-Hulsey</td>
<td>Florida State University                                             Access to Literacy Instruction in Preschool Age Children with Developmental Disabilities</td>
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<td>Chantal Marie De Leon</td>
<td>University of California, Davis                                      Are Filled Pauses Related to ASD Symptomatology in Adolescents and Young Adult Males with Fragile X Syndrome?</td>
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<td>Aimee Rovane</td>
<td>University of South Carolina                                         Do Treatment Attitudes Moderate the Relationship between Behavioral Treatment Adherence and Stress Among Parents of Children with ASD?</td>
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<td>Michaela Leahy</td>
<td>University of Kansas                                                 The Relationship of Early Mother-Child Dialogic Reading &amp; Later Communication Skills in Children with Fragile X Syndrome</td>
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<td>Kirsten Zemke</td>
<td>Vanderbilt University                                                Understanding an Unknown Member of the Disability Community: The Sibling-In-Law</td>
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<td>Yue Xu</td>
<td>University of Illinois at Chicago                                  Barriers to Access Applied Behavioral Analysis (ABA) for Children with Autism Spectrum Disorder in the State of Illinois</td>
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<td>Marie Moore Channell</td>
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<td>Pooja Santapuram</td>
<td>Vanderbilt University                                                Links between Looking and Vocal Development in Infants at High and Low Risk for Autism Spectrum Disorder</td>
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<td>Jessica Klusek</td>
<td>University of South Carolina                                         The Relationship between Pragmatic Language Difficulties, Loneliness, and Life Satisfaction in Mother Carriers of the FMR1 Premutation and Mothers of Children with Autism Spectrum Disorder</td>
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<td>Hana D’Souza</td>
<td>University of Cambridge                                             A Profile of Strengths and Weaknesses Emerges Over Early Development in Down Syndrome</td>
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<td>Megan Krantz</td>
<td>Loma Linda University                                                Child Behavior Problems and Marital Satisfaction as Predictors of Stress among Parents of Children with Developmental Delays</td>
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<td>Amanda Preston</td>
<td>Loma Linda University                                                Increasing Parenting Self-Efficacy and Positive Parenting Behaviors in Parents of Children with DD after Enhanced Behavioral Parenting Training</td>
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<td>Catherine Stephan</td>
<td>Drexel University                                                     Reading Abilities in Down Syndrome and its Relation to Time Spent in a Mainstream Classroom</td>
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<td>76</td>
<td>Carly Moser</td>
<td>University of South Carolina                                         Attention to Eye Gaze in Mothers of Children with Autism and Fragile X Syndrome</td>
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7:30 a.m. – Check-in / Registration  
Contessa Ballroom Foyer

8:00–9:30 a.m.  
**POSTER BREAKFAST** (Poster Numbers 77-112)  
Laurel / Cedar

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<td>A Clinical and Behavioral Protocol for Obtaining Electrophysiological Data with Children with Low Language and Cognitive Ability</td>
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<td>Megan Perez</td>
<td>Associations between Sleep-Related Breathing Disorder Symptoms and Adaptive Functioning in School-Age Children with Down Syndrome</td>
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<td>C. Holley Pitts</td>
<td>Inhibitory Control in 6- to 8-year-olds with Williams Syndrome: Relations with Adaptive Skills, School Readiness, and IQ</td>
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<td>Anna Walisch</td>
<td>Early Identification in Autism: Subtypes Based on Child, Family, and Community Characteristics</td>
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<td>Andy Schlink</td>
<td>Predictors of Parent Fidelity in a Caregiver-Mediated Intervention for Toddlers with ASD</td>
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<td>82</td>
<td>Akilan Murugesan</td>
<td>Gaze Use in Male Preschoolers with Fragile X Syndrome or Autism Spectrum Disorder: Effects of Etiology and Sampling Context</td>
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<td>83</td>
<td>Tiffany Woynaroski</td>
<td>Preliminary Results of the Sensory Project in Infant Siblings: Early Sensory Responsiveness is Linked with Communication Development in Infants at Risk for Autism</td>
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<td>84</td>
<td>Moshe Maiman</td>
<td>An Examination of the Relations between Parent-Reported Fine Motor Abilities and Executive Functioning in Youth with Down Syndrome (DS)</td>
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<tr>
<td>85</td>
<td>Megan Kunze</td>
<td>Heritage Language and Down Syndrome: A Systematic Examination of the Influences of Interventionist Language on Mands Using a Speech Generating Device</td>
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<tr>
<td>86</td>
<td>Vivian Nguyen</td>
<td>Symptoms of Autism Spectrum Disorder in Individuals with Down Syndrome</td>
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<td>87</td>
<td>Cynde Josol</td>
<td>Bullying Experiences of Adolescents with Down Syndrome: A Case Study</td>
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<td>88</td>
<td>Lisa Hamrick</td>
<td>Using Generalizability Theory to Validate an Existing Measure of Social Communication in Neurogenetic Syndrome Populations</td>
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<td>89</td>
<td>Marisa Fisher</td>
<td>Risk Behaviors for Cybervictimization among Individuals with Down Syndrome</td>
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<td>90</td>
<td>Olivia Surgent</td>
<td>The Effect of Sensory Experience on Motor Ability in Autism Spectrum Disorder</td>
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<tr>
<td>91</td>
<td>Ashlyn Smith</td>
<td>Examining the Impact of Participation in Young Athletes on Families of Children with Intellectual Disabilities</td>
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<tr>
<td>92</td>
<td>Brianne Tomaszewski</td>
<td>Growth Mixture Models of Adaptive Behavior in Adolescents with Autism Spectrum Disorder</td>
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<tr>
<td>93</td>
<td>Wei Siong Neo</td>
<td>Heart Rate-Defined Sustained Attention as a Psychophysiological Measure of Attention for Young Children with Down Syndrome</td>
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<tr>
<td>94</td>
<td>Lauren Usher</td>
<td>Trajectories of Change in the Behavioral and Health Phenotype of Adolescents and Adults with Fragile X Syndrome and Intellectual Disability: Longitudinal Trends over a Decade</td>
</tr>
</tbody>
</table>
**FRIDAY**

**APRIL 5, 2019**

- 8:00–9:30 a.m.

**POSTER BREAKFAST** (Poster Numbers 77-112)
Laurel / Cedar

*This is a mandatory session for all travel award recipients.*

<table>
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<tr>
<th>Poster #</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
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<tr>
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<td>Carly Hyde, University of California, Los Angeles</td>
<td>Data Collection in Children with Intellectual Delay: Feasibility Study</td>
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<tr>
<td>96</td>
<td>Tracy Rauston, Pennsylvania State University</td>
<td>Coaching Parents of Children with Autism Spectrum Disorder to Embed Social Skills Instruction during Playdates</td>
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<tr>
<td>97</td>
<td>Monica Gordillo, Boston University</td>
<td>Differences in How Mothers Conceptualize ASD Generally and in Their Children: When Increased Knowledge Does Not Lead to Acceptance</td>
</tr>
<tr>
<td>98</td>
<td>Rebecca Pretzel, University of North Carolina at Chapel Hill</td>
<td>Examining Cognitive and Behavioral Development in Infants and Toddlers with Turner Syndrome</td>
</tr>
<tr>
<td>99</td>
<td>Jocelyn Kuhn, Boston Medical Center</td>
<td>Service and Intervention Impacts on Parenting Stress in Low-income and Minority Families of Children with Autism Spectrum Disorder</td>
</tr>
<tr>
<td>100</td>
<td>Kelly Caravella, University of South Carolina</td>
<td>Longitudinal Social Communication Comparisons in Preschool Age Children with Down Syndrome and Fragile X Syndrome</td>
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<tr>
<td>101</td>
<td>Leann Smith DaWalt, University of Wisconsin-Madison</td>
<td>Trajectories of Attention Problems and Aggressive Behavior over 10 Years for Children with Fragile X Syndrome</td>
</tr>
<tr>
<td>102</td>
<td>Sarah Nelson, University of California, Davis</td>
<td>Trajectories of Receptive and Expressive Vocabulary Development in Adolescents with Down Syndrome and Fragile X Syndrome Compared to Younger Typically Developing Children</td>
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<tr>
<td>103</td>
<td>Shannon L. O'Connor, University of South Carolina</td>
<td>The Impact of Mental Age on ADHD Diagnosis in Preschoolers with Fragile X Syndrome and Autism Spectrum Disorder</td>
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<tr>
<td>104</td>
<td>Casy Walters, Georgia State University</td>
<td>Describing Patterns of Spoken Language in Children with Down Syndrome Following Parent-Coached AAC Intervention</td>
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<tr>
<td>105</td>
<td>Taylor Halligan, Purdue University</td>
<td>Implementation Fidelity of PANDA, a Parent-Facilitated Telehealth Assessment for Children with Neurogenetic Syndromes</td>
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<tr>
<td>106</td>
<td>Jodi Heidlage, Vanderbilt University</td>
<td>The Effects of Augmentative Assisted Language Matrix-Training for Young Children with Down Syndrome</td>
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<td>107</td>
<td>Geovanna Rodriguez, University of Wisconsin-Madison</td>
<td>Mental Health and Behavior Indicators of Bullying in Youth with ASD</td>
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<tr>
<td>108</td>
<td>Sandy Magaña, University of Texas at Austin</td>
<td>Identifying the Needs of Culturally Diverse Children and Youth with ASD in Central Texas: Results from a Mixed-Methods Needs Assessment</td>
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<tr>
<td>109</td>
<td>Sandra Vanegas, Texas State University</td>
<td>Health Care Disparities Affecting Latino Children with Autism Spectrum Disorders or Down Syndrome in a National Sample</td>
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<tr>
<td>110</td>
<td>Mary Alice Keller, Vanderbilt University</td>
<td>Developing an Observational Measure of Receptive Ability for Preverbal and Minimally Verbal Children with Autism</td>
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<tr>
<td>111</td>
<td>Sara Matherly, University of South Carolina</td>
<td>Impact of Structural and Pragmatic Language on Anxiety in Young Adult Males with Fragile X Syndrome</td>
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<td>112</td>
<td>G. Nathanael Schwarz, University of Wisconsin, Milwaukee</td>
<td>Stability and Predictive Value of Intellectual Functioning in Neurofibromatosis Type 1 beginning in the Preschool Years</td>
</tr>
</tbody>
</table>
FRIDAY

APRIL 5, 2019

9:30–10:30 a.m.

PLENARY SESSION 4
Contessa Ballroom
Neurogenesis, Myelination and Circuitry: The Case for a Distributed Therapeutic Regimen in Down Syndrome
Presenter: Tarik F. Haydar, Ph.D.
Boston University

10:30–11:00 a.m. — BREAK
Refreshments in Retama / Mesquite Rooms

11:00–12:00 p.m.

SYMPOSIUM 25
Contessa Ballroom A
Advances in Characterizing Developmental Trajectories in Angelman Syndrome across the Lifespan
Chair: Anjali Sadhwani
Boston Children's Hospital
Chair: Katherine C. Okoniewski
RTI International
Discussant: Terry Jo Bichell
Angelman Biomarker and Outcome Measure Alliance

A Longitudinal Investigation of Developmental and Adaptive Functioning in Individuals with Angelman Syndrome

Anxiety and Separation Distress in Individuals with Angelman Syndrome
Katherine Okoniewski, Amanda Wylie, Danielle Toth, Margaret DeRamus, Laura Hiruma, Anne Wheeler

Characterizing and Improving the Measurement of Early Challenging Behaviors in Angelman Syndrome
Wei Siong Neo, Bridgette Tonnsen

Measurement and Characterization of Early Social Communication in Children with Angelman Syndrome
Lisa Hamrick, Bridgette Tonnsen

11:00–12:00 p.m.

SYMPOSIUM 26
Contessa Ballroom B
Understanding Down Syndrome across the Lifespan: Cognition, Brain, and Genes
Chair: Hana D'Souza
University of Cambridge
Chair: Kate Hughes
University of Arizona
Discussant: Jamie Edgin
University of Arizona

Differences in Memory Function across Age in Down Syndrome
Kate Hughes, Stella Sakhon, Alison Luongo, Alex Reichsfeld, Miranda Sampsel, Jamie Edgin

Mapping Brain Development in Pediatric DS: Novel Insights from a Cross-Sectional Analysis of Cortical Morphometry Across Age and Diagnostic Groups
Taralee Hamner, Manisha Udhnani, Jay Giedd, Nancy Raitano Lee

A Risk Gene for Dementia (APOE) is Associated with Better Early Attentional Skills in Down Syndrome
Hana D'Souza, Luke Mason, Emma Meaburn, Kin Mok, John Hardy, Annette Karmiloff-Smith, Denis Mareschal, Michael Thomas

11:00–12:00 p.m.

SYMPOSIUM 27
Magnolia
The NIH Toolbox Cognitive Battery for Intellectual and Developmental Disabilities: The Latest Findings and Potential Utility for Clinical Trials
Chair: David Hessl
University of California, Davis
Discussant: Audrey Thurm
National Institute of Mental Health

Feasibility, Validity, and Reliability of the NIH Toolbox Cognitive Battery in Intellectual Disability
Rebecca Shields, Elizabeth Berry-Kravis, Karen Riley, Keith Widaman, Aaron Kaat, Jeanine Coleman, Claire Michalak, Forrest McKenzie, Andrea Drayton, Richard Gershon, David Hessl
Assessing Early Executive Functioning in Intellectual Disability with the NIH Toolbox
Aaron Kaat, Rebecca Shields, Jeanine Coleman, Karen Riley, Elizabeth Berry-Kravis, Richard Gershon, David Hessl

Impact of Hyperactivity and Irritability Symptoms on NIH Toolbox Executive Function Tasks in Intellectual Disability
Haleigh Scott, Rebecca Shields, Jeanine Coleman, Karen Riley, Elizabeth Berry-Kravis, Richard Gershon, Aaron Kaat, David Hessl

Use of the NIH Toolbox to Follow Cognition in Niemann-Pick Type C Patients Receiving Intrathecal 2-hydroxypropyl-beta-cyclodextrin (VTS-270) to Limit Progression of Disease
Elizabeth Berry-Kravis, Jamie Chin, Claire Michalak

SPECIAL RECOGNITION
Thank you to
LIFE SPAN INSTITUTE, UNIVERSITY OF KANSAS
CHILDREN’S NATIONAL HEALTH
for their generous support of the 2019 Gatlinburg Conference!
# Award Recipients

**Congratulations to the 2019 Gatlinburg Conference Travel Award Recipients!**

### American Psychological Association-Division 33 Graduate Student Travel Award

- **Sarah Nelson**  
  University of California, Davis

### David Zeaman Graduate Award

- **Lauren Baczewski**  
  University of California, Los Angeles
- **Kelly Caravella**  
  University of South Carolina
- **Karly Cody**  
  University of Wisconsin-Madison
- **Taralee Hamner**  
  Drexel University
- **Lisa Hamrick**  
  Purdue University
- **Maria Pizzano**  
  University of California, Los Angeles
- **Jessica Schwartzman**  
  Palo Alto University

### Dissertation Award

- **Marika King**  
  Georgia State University
- **Jena McDaniel**  
  Vanderbilt University
- **Patricia Rein**  
  Boston University

### John G. Borkowski Diversity Travel Award

- **Jessica Miguel**  
  University of California, San Diego
- **Wei Siong Neo**  
  Purdue University

### National Fragile X Foundation Award

- **Rebecca Shields**  
  University of California, Davis

### Theodore Tjossem Postdoctoral Award

- **Hana D'Souza**  
  Birkbeck, University of London
- **Kate Hughes**  
  University of Arizona
- **Brenna Maddox**  
  University of Pennsylvania
SAVE THE DATE

53rd Annual Gatlinburg Conference

April 15-17, 2020

Hyatt Regency
Mission Bay Spa and Marina

1441 Quivira Road | San Diego, California
missionbay.regency.hyatt.com

Theme: IDD in an Era of Bioinformatics, Electronic Health Records, and Personalized Medicine

Visit our website:
mindinstitute/gatlinburg/index.html
Hotel Contessa
Luxury Suites on the Riverwalk

Second Level Conference Area

Conference Liaisons
Rebecca L. Shilts: 916-753-8659
Brenda L. Shelton: 916-296-4346
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<tr>
<td>1:30 p.m.</td>
<td>Pre-Conference Check-in / Registration</td>
<td>Contessa Ballroom Foyer</td>
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</table>
| 2:00 – 5:00 p.m. | Pre-Conference Sessions  
Performing and Understanding EEG Research in Intellectual and Developmental Disabilities  
Presenters: Shafali Jeste, Joshua Ewen, Sophie Molholm, John Foxe, Abigail Dickinson | Contessa Ballroom B    |
| 5:00 – 7:00 p.m. | Gatlinburg Statistic and Methodology: Promoting Reproducible Science through Strong Data Management  
Presenters: Cristan Farmer, Aaron Kaat | Contessa Ballroom B    |
| 7:30 a.m.    | Conference Check-in / Registration                                   | Contessa Ballroom Foyer|
| 8:00 – 8:30 a.m. | Opening Remarks  
– Leonard Abbeduto, Ph.D., Conference Chair  
& Connie Kasari, Ph.D., Conference Co-Chair | Contessa Ballroom      |
| 8:30 – 9:30 a.m. | Plenary Session 1  
Advancing Knowledge of Down Syndrome Brain Development and Function with Human Stem Cells  
Presenter: Anita Bhattacharyya, Ph.D. | Contessa Ballroom      |
| 9:30–10:00 a.m. | Break                                                                | Retama / Mesquite (Refreshments) |
| 10:00 – 11:00 a.m. | Symposium 1  
Communication Interventions for Children with Down Syndrome  
Chair: Nancy Brady | Contessa Ballroom A    |
| 11:15 – 12:15 p.m. | Symposium 2  
Using Eye Tracking and Brain Data to Evaluate Speech and Language Processing in Neurodevelopmental Disorders: New Options for Difficult to Test Populations  
Chair: Alexandra P. Key | Contessa Ballroom B    |
| 12:15 – 1:45 p.m. | Symposium 3  
Comorbid Anxiety among Individuals with Autism Spectrum Disorder: Symptom Presentation, Risk Correlates, and Treatment Outcomes  
Chair: Cameron L. Neece | Magnolia                |
| 1:45 – 2:45 p.m. | Symposium 4  
Language and Literacy Interventions for Students with Down Syndrome: Current Empirical Evaluations and Next Steps for Future Research  
Chair: Christopher J. Lemons & Sue Buckley | Contessa Ballroom A    |
| 3:00 – 4:00 p.m. | Symposium 5  
Mental Health and Intellectual Disabilities  
Chair: Angela Henderson | Contessa Ballroom B    |
| 4:00 – 4:30 p.m. | Symposium 6  
Graduate Student Presentations  
Presenters: Patricia Rein, Maria Pizzano, Lauren Bullard, Gal Kaldes, Marika King | Magnolia                |
| 4:30 – 5:30 p.m. | Symposium 7  
Social and Communicative Functioning in Down Syndrome: A Developmental Perspective  
Chair: Marie Moore Channell & Laura Hahn | Contessa Ballroom A    |
| 5:00 – 7:00 p.m. | Symposium 8  
Novel Approach for the Development of Translational Biomarkers and Treatment Outcomes in Neurodevelopmental Disorders: Case Examples in Fragile X Syndrome and Related Disorders  
Chair: Rebecca Shaffer | Contessa Ballroom B    |
| 6:00 – 7:30 p.m. | Symposium 9  
Moving Beyond Ethnic Disparities in ASD: Transforming Cultural Strengths into Tangible Tools  
Chair: Shana R. Cohen | Magnolia                |
| 7:30 p.m.    | Plenary Session 2  
What’s Missing from our Current Research Approach to Down Syndrome? Prompting Innovation in the Biobehavioral and Medical Communities  
Presenter: George T. Capone, M.D. | Contessa Ballroom      |
| 8:00 – 9:30 p.m. | Poster Reception 1 (Poster Numbers 1-38)  
*Mandatory session for all travel award recipients | Laurel / Cedar         |
## Program at a Glance

**THURSDAY – APRIL 4, 2019**

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<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Conference Check-in / Registration</td>
<td>Contessa Ballroom Foyer</td>
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</table>
| 8:00 – 9:00 a.m. | **PLENARY SESSION 3**  
The Search for Biomarkers of Alzheimer's Disease in Down Syndrome  
Presenter: Benjamin L. Handen, Ph.D., BCBA-D | Contessa Ballroom       |
| 9:00 – 9:30 a.m. | **BREAK**                                                                                   | Retama / Mesquite (Refreshments) |
| 9:30 – 10:30 a.m. | **SYMPOSIUM 13**  
Contessa Ballroom A  
Naturalistic Developmental Behavioral Interventions (NDBIs): Expanding Intervention Programs and Developing Assessment Tools for Children with Diverse Neurodevelopmental Disabilities  
Chair: Grace W. Gengoux | Contessa Ballroom A |
| 9:30 – 10:30 a.m. | **SYMPOSIUM 14**  
Contessa Ballroom B  
Advancing Research on Alzheimer's Disease in Down Syndrome: Insight into Early Detection and Characterization of Neuropathological and Cognitive Features  
Chair: Sigan L. Hartley | Contessa Ballroom B |
| 10:45 – 11:45 a.m. | **SYMPOSIUM 15**  
Magnolia  
Physical and Mental Health in Adults on the Autism Spectrum  
Chair: Lauren Bishop-Fitzpatrick | Magnolia |
| 1:30 – 2:30 p.m. | **SYMPOSIUM 19**  
Contessa Ballroom A  
Neurophysiological Indicators of ASD-Related Behavioral Phenotypes  
Chair: Abigail L. Hogan | Contessa Ballroom A |
| 2:45 – 3:45 p.m. | **SYMPOSIUM 22**  
Contessa Ballroom A  
Health and Care Outcomes for Children and Young People with Intellectual Disabilities  
Chair: Deborah Kinnear | Contessa Ballroom A |
| 3:45 – 4:15 p.m. | **BREAK**                                                                                   | Retama / Mesquite (Refreshments) |
| 4:15 – 5:15 p.m. | **NIH Updates**  
Presenters: Sujata Bardhan, Ph.D., and Tracy King, M.D., M.P.H. | Contessa Ballroom       |
| 5:30 – 7:00 p.m. | **Poster Reception 2 (Poster Numbers 39-76)**  
*Mandatory session for all travel award recipients* | Laurel / Cedar          |

## FRIDAY – APRIL 5, 2019

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*Mandatory session for all travel award recipients* | Laurel / Cedar         |
| 9:30 – 10:30 a.m. | **PLENARY SESSION 4**  
Neurogenesis, Myelination and Circuity: The Case for a Distributed Therapeutic Regimen in Down Syndrome  
Presenter: Tarik F. Haydar, Ph.D. | Contessa Ballroom       |
| 10:30 – 11:00 a.m. | **BREAK**                                                                                   | Retama / Mesquite (Refreshments) |
| 11:00 – 12:00 p.m. | **SYMPOSIUM 25**  
Contessa Ballroom A  
Advances in Characterizing Developmental Trajectories in Angelman Syndrome across the Lifespan  
Chair: Anjali Sadhwani & Katherine C. Okoniewski | Contessa Ballroom A |
| 11:00 – 12:00 p.m. | **SYMPOSIUM 26**  
Contessa Ballroom B  
Understanding Down Syndrome across the Lifespan: Cognition, Brain, and Genes  
Chair: Hana D’Souza & Kate Hughes | Contessa Ballroom B |
| 12:10 p.m. | **Closing Remarks**  
Leonard Abbeduto, Ph.D., Conference Chair  
& Connie Kasari, Ph.D., Conference Co-Chair | Contessa Ballroom B |