



**Autism Program**  
**Oral and Poster Presentations @ IMFAR 2015**  
**International Meeting for Autism Research**  
**Salt Lake City, Utah May 13-16, 2015**

**ORAL PRESENTATIONS (2)**

***Lessons Learned from Phase I Proof-of-Mechanism and Biomarker Studies in ASD: Measurement and Trial Considerations*** J. T. McCracken, E. Hollander, L. Scahill, M. del Valle Rubido, F. Shic, O. Khwaja, L. Squassante, S. Sadikhov, L. Boak, F. Bolognani, P. Fontoura, C. A. Wall, R. J. Jou, R. L. Loomis, M. C. Lyons, A. Gavaletz, C. J. Ferretti, B. P. Taylor, G. Berlin, R. Noone, L. N. Antar and D. Umbricht.

***Affect and Social Behaviors of School-Aged, High Functioning Children with ASD during Robot Interaction*** C. Daniell, E. S. Kim, C. Makar, J. Elia, B. Scassellati and F. Shic.

**POSTER PRESENTATIONS (43)**

***18-Month Predictors of Later Outcomes in Younger Siblings of Children with Autism Spectrum Disorder: A Bsrc Study*** K. Chawarska, F. Shic, S. Macari, D. J. Campbell, J. A. Brian, R. J. Landa, T. Hutman, C. A. Nelson, S. Ozonoff, H. Tager-Flusberg, G. S. Young, I. L. Cohen, T. Charman, D. S. Messinger, S. Johnson, L. Zwaigenbaum, A. Klin and S. E. Bryson.

***A Computational Approach to Eye-Tracking Analysis Reveals Slower Orienting to Movements in Social Scenes in Toddlers with ASD*** Q. Wang, S. Macari, K. Chawarska and F. Shic.

***Acoustic Properties of Affective Vocalizations Produced By Six-Month-Old High- and Low-Risk Infants*** L. DiNicola, E. Schoen Simmons, F. Shic, R. Paul and K. Chawarska.

***A Multi-Method Study of Empathic Responding in High-Risk Siblings at Preschool Age*** N. McDonald, H. Gordon and D. Messinger.

***An Integration of fMRI Neural Effects of Oxytocin in Children with ASD: Insights from Three Paradigms of Social Processing*** I. Gordon, B. C. Vander Wyk, A. Jack, C. M. Pretzsch, R. H. Bennett, M. V. Lucas, C. Cordeaux, J. A. Eilbott, R. Feldman, J. F. Leckman and K. Pelphrey.

***Attention and Proximity to Threat Among Toddlers with Autism Spectrum Disorders*** G. Greco, S. Macari, L. DiNicola, L. Flink, S. S. Lansiquot and K. Chawarska.

***Attentional Protective Factors in Typically-Developing 6-Month-Old Girls at High-Risk for Autism*** F. Shic, S. Macari and K. Chawarska.

***Characterising 'other Developmental Concerns (ODC)' at 36 Months in Infants at Familial High-Risk for Autism Spectrum Disorder: A Bsrc Study*** T. Charman, J. A. Brian, K. Chawarska, S. Georgiades, I. Hertz-Picciotto, J. M. Iverson, E. Jones, R. J. Landa, S. Macari, D. S. Messinger, C. A. Nelson, S. Ozonoff, C. A. Saulnier, W. L. Stone, T. Hutman, S. J. Webb, N. Yirmiya and G. S. Young.

***Conscious and non-conscious emotional processing and level of autistic traits*** K. Stavropoulos, M. Viktorinova, A. Naples and J. McPartland.

***Decreased Neural Response to Touch As a Marker of Autism Risk Across the First Year of Life*** H. M. Fichtenholtz, N. M. McDonald, L. C. Anderson, C. M. Keifer, H. E. Friedman, J. A. Eilbott and K. Pelphrey.

***Determining Appropriateness of a Mobile Technology Application to Treat Prosodic Deficits in ASD*** E. Schoen Simmons, C. A. Wall, R. Paul and F. Shic.

***Developmental Plateaus in Gaze Following in 24-Month- Old Toddlers with ASD: An Eye-Tracking Study*** L. DiNicola, E. S. Kim, C. A. Wall, G. Greco, S. S. Lansiquot, L. Flink, Q. Wang, S. Macari, F. Shic and K. Chawarska.

***Dissociating Neural Response to Gaze Cues in ASD and Schizophrenia Using Simulated Face-to-Face Interaction.*** J. Foss-Feig, A. Naples, E. Levy, R. Tillman, K. Law, N. Santamauro, C. Diehl, C. Schleifer, V. Srihari, A. Anticevic and J. McPartland.

***Early Gross and Fine Motor Abilities in Infants at Heightened Vs. Low Risk for ASD: A Bsrc Study*** J. M. Iverson, F. Shic, C. A. Wall, Y. Bensinger-Brody, S. Curtin, A. M. Estes, J. M. Gardner, T. Hutman, S. Johnson, B. Z. Karmel, R. J. Landa, A. R. Levin, K. Libertus, D. S. Messinger, C. A. Nelson, S. Ozonoff, J. Piven, S. J. Rogers, L. A. Sacrey, K. Sheperd, W. L. Stone, H. Tager-Flusberg, J. J. Wolff, N. Yirmiya and G. S. Young.

***Effect of Comorbid Psychopathology on Response to Pivotal Response Treatment*** D. Oosting, H. E. Friedman, C. M. Keifer, A. J. Schneider, C. A. Paisley, A. Jack, N. M. McDonald, K. Pelphrey and P. Ventola.

***Effect of Familiarity on Reward Anticipation in Children With and Without Autism Spectrum Disorders*** K.K.M.Stavropoulos and L.J. Carver.

***Effects of a Novel Behavioral Intervention for Irritability in Autism on Neural Circuitry of Emotion Regulation*** D. G. Sukhodolsky, S. A. McCauley, P. Ventola, K. Pelphrey and B. C. Vander Wyk.

***Emotional Reactivity in Toddlers with ASD: Diminished Response to Threatening Stimuli during the Laboratory Temperament Assessment Battery (Lab-TAB)*** S. Macari, L. DiNicola, A. C. Dowd, L. Flink, E. B. Gisin, G. Greco, S. S. Lansiquot, E. Prince, S. H. Kim, F. Shic and K. Chawarska.

***ERP Correlates of Emotion Processing in Adults with Autism and Schizophrenia*** E. Levy, A. Naples, J. Foss-Feig, R. Tillman, H. Reuman, K. Law, H. Samson, C. Diehl, C. Schleifer, N. Santamauro, A. Anticevic, V. Srihari, and J. McPartland.

***Examining the Structure of Temperament Traits in Toddlers with and without ASD*** C. A. Wall, L. Flink, S. S. Lansiquot, S. H. Kim, F. Shic, J. Koller, K. Chawarska and S. Macari.

***Freespeech: Large-Scale Data from a New AAC Application Characterizes Usage for Young Children with ASD – One Size Does Not Fit All*** L. Boccanfuso, J. C. Snider, E. Schoen Simmons, M. C. Lyons, E. S. Kim, C. A. Wall, L. Whitaker, M. Perlmutter, K. Konwar, R. Schrock and F. Shic.

***From Experimental to Investigational: The Potential for Eye Tracking As a Biomarker for Outcome in Clinical Trials*** F. Shic, M. del Valle Rubido, E. Hollander, S. S. Jeste, J. T. McCracken, L. Scahill, O. Khwaja, L. Squassante, S. Sadikhov, J. Dukart, E. S. Kim, M. Perlmutter, E. Sharer, R. Paul, R. J. Jou, M. C. Lyons, T. Apelian, G. Berlin, C. J. Ferretti, A. Gavaletz, R. L. Loomis, J. N. Cowen, T. Shimizu, B. P. Taylor, C. A. Wall, R. Noone, L. N. Antar, L. Boak, P. Fontoura and D. Umbricht.

***Imitation Abilities in 12-Month-Old Infants at High Risk for Autism Spectrum Disorder (ASD): Parents Provide a Vital Perspective*** S. Macari, J. Rowberry, D. J. Campbell, G. Chen, J. Koller and K. Chawarska.

***Improving Oral Hygiene in Children with ASD Using Video Modeled Social Stories: A Pilot Study*** B. S. Popple, C. A. Wall, L. Flink, K. K. Powell, D. B. Keck, F. R. Volkmar and F. Shic.

***Maternal and Paternal Stress in Parenting Children with ASD*** H. E. Friedman, D. Oosting, C. M. Keifer, A. J. Schneider, C. A. Paisley, J. Wolf and P. Ventola.

***Measuring the Importance of Fyi Screener Items in Predicting Adost Totals at 12 and 18 Months: A Machine Learning Approach*** E. S. Kim, S. H. Kim, S. Macari, K. Chawarska and F. Shic.

***Neural Response to Biological Motion in Males and Females with ASD***

A. Naples, J. McPartland, K. Pelphrey, S. Webb and the GENDAAR Working Group.

***Neural Response to Interactive Faces is Associated with Clinical Characteristics in ASD and Typical Development***

K. Law, A. Naples, E. Levy, H. Reuman, R. Tillman, K. Stavropoulos, Z. Williams, D. Czemerinski and J. McPartland.

***Neural Signatures of Discrepant Nonverbal and Verbal IQ in Youth with ASD***

C. M. Keifer, D. Yang, P. Ventola, J. Wolf and K. Pelphrey.

***Perception of Biological Motion and Integration of Audio-Visual Stimuli in Infants at Risk for Autism***

H. Reuman, T. Kim, R. Tillman, E. Levy, K. Law, A. Naples, K. Stavropoulos, J. Foss-Feig, S. Kim, E. Schoen Simmons, K. Powell, S. Macari, F. Shic, K. Chawarska and J. McPartland.

***Pivotal Response Treatment improves neural efficiency for social perception in children with Autism Spectrum Disorder***

M. Rolison, J. Foss-Feig, R. Tillman, H. Reuman, A. Naples, K. Pelphrey, P. Ventola and J. McPartland.

***Plasticity of Brain Networks for Social Cognition in Adults with ASD***

D. Yang, T. Allen, S.B. Chapman, F.R. Volkmar, B.C. Vander Wyk and K. Pelphrey.

***Predictors of Functioning in Preschool and School Age Children with ASD***

M. C. Lyons, R. Paul, K. D. Tsatsanis and F. Shic.

***Promises and Limits: Exploring Relationships Between the First Year Inventory (FYI) and Autism Diagnostic Observation Schedule (ADOS) from 12 to 18 Months of Age with Machine Learning***

S. H. Kim, E. S. Kim, S. Macari, K. Chawarska and F. Shic.

***Searching for Neuroimaging Targets for Interventions in ASD***

K. Pelphrey, D. Yang, D. G. Sukhodolsky, M. J. Crowley, D. Oosting, H. E. Friedman, C. M. Keifer and P. Ventola.

***Sex Differences Do Not Distinguish High-Risk ASD, High-Risk No ASD, and Low-Risk Children through Three Years: A Bsrc Study***

D. S. Messinger, G. S. Young, S. J. Webb, S. Ozonoff, L. Zwaigenbaum, K. Chawarska, R. J. Landa, K. R. Dobkins, W. L. Stone, A. Klin, M. C. Lai, S. Baron-Cohen and A. S. Carter.

***Sex Differences in Biological Motion Perception Among Youth with ASD: An fMRI Investigation***

A. Jack, C. M. Keifer, D. Gulliford, C. Torgerson, E. H. Aylward, S. Y. Bookheimer, M. Dapretto, N. Gaab, J. Van Horn and K. Pelphrey.

***Specificity of Atypical Neural Development for Language in Infants at Risk for ASD***

J.F. Yang, H.S. Reuman, E.D. Brooks, P.W. Hashim, R. Travieso, E.J. Levy, K. Law, K.K.M. Stavropoulos, D.M. Steinbacher, N. Landi, L.C. Mayes, J.A. Persing and J. McPartland.

***Stability of Temperament in Toddlers with Autism Spectrum Disorders*** S. S.

Lansiquot, L. Flink, C. A. Wall, S. H. Kim, F. Shic, J. Koller, K. Chawarska and S. Macari.

***Systems Biology of Late-Onset Severe Regressive Autism*** A. R. Gupta.

***Results from a Phase I Proof-of-Mechanism Study with a Vasopressin 1a Receptor***

***Antagonist in ASD*** D. Umbricht, M. del Valle Rubido, F. Shic, J. T. McCracken, L. Scahill, O. Khwaja, L. Squassante, L. Boak, F. Bolognani, P. Fontoura, C. A. Wall, R. J. Jou, R. L. Loomis, M. C. Lyons, A. Gavaletz, J. N. Cowen, T. Apelian, S. S. Jeste, C. J. Ferretti, B. P. Taylor, G. Berlin, R. Noone, L. N. Antar and E. Hollander.

***Temperamental Features in Toddlers with ASD Are Independent of Symptom***

***Severity*** L. Flink, S. S. Lansiquot, C. A. Wall, S. H. Kim, F. Shic, J. Koller, K. Chawarska and S. Macari.

***Why High-Risk Families Decline Early Treatment: Barriers to Treating at-Risk***

***Siblings*** K. K. Powell, E. Schoen Simmons and K. Chawarska.