

Current Research Questions

What Causes Autism:

Genes?

“Elucidating Genetic Components of Autism and Related Disorders”

PI: Linda Brzustowicz, M.D., Rutgers University

“Mitochondrial and Channelopathy Disorders and Dysfunction in Autism Spectrum Disorders: Genotypic and Phenotypic Correlations”

PI: Mark Mintz, M.D., Center for Neurological and Neurodevelopment Health II

Brain Development?

“The Generation and Characterization of Autism iPSCs”

PI: James Millonig, Ph.D., Rutgers

Immunology?

“Autism Spectrum Disorder-Inflammatory Subtype: Molecular Characterization”

PI: Harumi Jyonouchi, M.D., Rutgers

Environment?

“Glucuronidation and Autism”

PI: Peter Stein, Ph.D., Rowan University

“Metabolomic Analysis of Neural Precursor Cells Derived from Autism iPSCs and their Response to Environmental Stressors”

PI: Emanuel DiCicco-Bloom, M.D., Rutgers

How do we Diagnose/ Screen for Autism?

“Development of a New Autism Screening Tool for Traditionally Underserved Families”

PI: Yvette Janvier, M.D., Children’s Specialized Hospital

“New Objective Autism Inventory to Quantify Peripheral Plasticity During Standardized ADOS-2 Social Exchange”

PI: Elizabeth B. Torres, Ph.D., Rutgers

How do we Identify Autism Early?

“Piloting Very Early and Early Markers for Risk of Autism Spectrum Disorder in Premature and Low Birth Weight Infants”

“Piloting Electrophysiologic Biomarkers for ASD and Related Disorders in Premature and Low Birth Weight Infants”

PI: Barbie Zimmerman-Bier, M.D., St. Peter’s University Hospital

“A Human Stem Cell-Based Model to Study Autism-Linked Endoplasmic Reticulum Stress and Initial Testing of Therapeutic Strategies”

PI: Davide Comoletti, Ph.D., Rutgers

Can we Prevent Autism?

“Perinatal Risk Factors and their Influence on ASD Prevalence: Study of Two Birth Cohorts in NJ”

PI: Walter Zahorodny, Ph.D., Rutgers

How do we Treat Autism?

“Efficacy of Relationship Development Intervention and Parent Implemented Applied Behavior Analysis/ Verbal Behavior on Joint Attention and Communication of Preschool Children with Autism”

PI: Mary Lou Kerwin, Ph.D., Rowan University

“An Assessment of the Transportation and Mobility Needs and Barriers of Adults on the Autism Spectrum Disorder in NJ”

“Analysis, Validation, and Dissemination of a Paratransit Travel and Mobility Assessment for Adults on the Autism Spectrum”

PI: Cecilia Feeley, MS, Rutgers

“Can Video Speak the Language of Autism?”

PI: Amy E. Leramonth, Ph.D., William Paterson University