

| Funder         | Funder                                 | Project Title   | Funding     | Institution                             |
|----------------|--|---|-------------|---|
| United States  | National Institutes of Health          | 1/2-Somatic mosaicism and autism spectrum disorder  | \$1,595,121 | Boston Children's Hospital              |
| United States  | National Institutes of Health          | 1/2-Somatic mosaicism and autism spectrum disorder  | \$101,700   | Boston Children's Hospital              |
| United States  | National Institutes of Health          | 2/2 Somatic mosaicism and autism spectrum disorder  | \$694,098   | Yale University                         |
| United States  | National Institutes of Health          | 2/2 Somatic mosaicism and autism spectrum disorder  | \$72,260    | Yale University                         |
| United States  | Brain & Behavior Research Foundation   | a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95  | \$19,748    | University of Tuebingen                 |
| United States  | National Institutes of Health          | Abnormal Cerebellar Physiology and Development in the Autistic Brain  | \$43,576    | University of Chicago                   |
| United States  | Brain & Behavior Research Foundation   | Abnormal connectivity in autism   | \$14,881    | University of Southern California       |
| United States  | National Institutes of Health          | ACE Center: Genetic and genomic analyses to connect genes to brain to cognition in ASD  | \$251,358   | University of California, Los Angeles   |
| United States  | National Institutes of Health          | ACE Center: Neuroimaging signatures of autism: Linking brain function to genes and behavior   | \$188,264   | University of California, Los Angeles   |
| United States  | National Institutes of Health          | ACE Center: Ontogeny and neural basis of social visual engagement in monkeys  | \$267,536   | Emory University                        |
| United States  | National Institutes of Health          | ACE Center: Ontogeny and neural basis of social visual engagement in monkeys  | \$1         | Emory University                        |
| United States  | National Institutes of Health          | ACE Center: Predicting risk and resilience in ASD through social visual engagement  | \$354,189   | Emory University                        |
| United States  | National Institutes of Health          | ACE Center: Predicting risk and resilience in ASD through social visual engagement  | \$1         | Emory University                        |
| United States  | National Institutes of Health          | A computational framework for predicting the impact of mutations in autism  | \$431,352   | University of California, San Diego     |
| United Kingdom | Wellcome Trust                         | A cross-syndrome approach to atypical development: Modelling developmental trajectories in children with autism spectrum disorder, attention deficit and hyperactivity disorder and callous-unemotional traits. | \$0         | King's College London                   |
| United States  | National Institutes of Health          | Adult Neurogenesis and Executive Function   | \$417,500   | Albert Einstein College of Medicine     |
| United States  | Brain & Behavior Research Foundation   | Advancing a Biomarker of Disrupted GABAergic Neurotransmission in Autism  | \$17,500    | Massachusetts Institute of Technology   |
| United States  | National Institutes of Health          | A Family-Genetic Study of Autism and Fragile X Syndrome   | \$868,531   | Northwestern University                 |
| United States  | National Institutes of Health          | A Family-Genetic Study of Language in Autism  | \$661,091   | Northwestern University                 |
| United States  | Simons Foundation                      | A gene-driven systems approach to identifying autism pathology  | \$749,918   | University of California, San Francisco |
| Canada         | Canadian Institutes of Health Research | A Genetically Defined Human Neuronal Model for Tuberous Sclerosis   | \$15,974    | University of California (Berkeley)     |
| United States  | National Institutes of Health          | Akt-mTOR Pathway Impact on Neural Stem Cell Fates   | \$380,133   | Richard Stockton College of New Jersey  |

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| United States | National Institutes of Health        | A Longitudinal MRI Study of Infants at Risk for Autism   | \$2,434,558 | University of North Carolina at Chapel Hill |
| United States | National Institutes of Health        | A longitudinal study of brain development in children with autism  | \$735,113   | Children's Hospital of Philadelphia         |
| United States | Autism Speaks                        | Alterations of the human brain structural connectome in preschool aged children with ASD                                       | \$30,000    | University of California, Davis             |
| United States | National Institutes of Health        | Alterations to corticothalamic circuitry in a mouse model of autism  | \$12,090    | Louisiana State University                  |
| United States | National Institutes of Health        | Alterations to corticothalamic circuitry in a mouse model of autism  | \$110,270   | Louisiana State University                  |
| United States | Department of Defense - Army         | Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders | \$0         | University of Southern California           |
| United States | National Institutes of Health        | Alternative splicing-mediated mechanisms of cortical interneuron maturation and circuit integration                            | \$96,751    | New York University School of Medicine      |
| United States | Brain & Behavior Research Foundation | A Massively Parallel Approach to Functional Testing of PTEN Mutations  | \$34,710    | Oregon Health & Science University          |
| United States | National Institutes of Health        | A Mitochondrial-Interneuronal Hypothesis of Autism   | \$673,299   | Children's Hospital of Philadelphia         |
| United States | National Institutes of Health        | A mouse model for AUTS2-linked neurodevelopmental disorders  | \$228,838   | University of Illinois at Urbana-Champaign  |
| United States | National Institutes of Health        | A Multimodal Investigation of Inhibitory Dysfunction in Autism Spectrum Disorder   | \$82,734    | Johns Hopkins University                    |
| United States | National Institutes of Health        | ANALYSIS OF CORTICAL FUNCTION  | \$216,871   | National Institutes of Health               |
| United States | Simons Foundation                    | Analysis of oxytocin function in brain circuits processing social cues   | \$62,500    | Harvard University                          |
| United States | National Institutes of Health        | Analysis of Shank3 Complete and Temporal and Spatial Specific Knockout Mice  | \$425,202   | Duke University                             |
| United States | Simons Foundation                    | Analysis of Shank3 ubiquitination regulation by RNF31 phosphorylation  | \$70,000    | Medical University of South Carolina        |
| United States | Simons Foundation                    | A new non-human primate model for studying communicative behaviors   | \$125,000   | Johns Hopkins University School of Medicine |
| United States | National Institutes of Health        | An fMRI investigation of propagated intrinsic activity in early development and autism   | \$29,911    | Washington University in St. Louis          |
| United States | National Institutes of Health        | Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders  | \$457,126   | University of Pennsylvania                  |
| United States | National Institutes of Health        | Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders  | \$154,314   | University of Pennsylvania                  |
| United States | National Institutes of Health        | Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders  | \$234,157   | Duke University                             |

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| United Kingdom | Medical Research Council                           | An integrative approach to unravelling the aetiology of ASD and ADHD in early adulthood: neurophysiology and development in twins  | \$898,164 | King's College London                         |
| United States  | Simons Foundation                                  | An investigation of inductive learning in autism   | \$0       | University of California, Berkeley            |
| United States  | National Institutes of Health                      | A Novel Essential Gene for Human Cognitive Function  | \$31,881  | Harvard Medical School                        |
| United States  | Brain & Behavior Research Foundation               | A Novel GABA Signalling Pathway in the CNS   | \$25,000  | McLean Hospital                               |
| United States  | Simons Foundation                                  | A Novel Transcriptional Cascade Involved in Brain Overgrowth in ASD  | \$35,000  | Case Western Reserve University               |
| United States  | Simons Foundation                                  | A novel window into ASD through genetic targeting of striosomes - Core   | \$175,141 | Massachusetts Institute of Technology         |
| United States  | Simons Foundation                                  | A novel window into ASD through genetic targeting of striosomes - Project 1  | \$72,271  | Cold Spring Harbor Laboratory                 |
| United States  | Brain & Behavior Research Foundation               | Antigenic Specificity and Neurological Effects of Monoclonal Anti-brain Antibodies Isolated from Mothers of a Child with Autism Spectrum Disorder: Toward Protection Studies | \$35,000  | The Feinstein Institute for Medical Research  |
| United States  | Autism Speaks                                      | Anti-Neuronal Autoantibodies against Bacterial Polysaccharides in Autism Spectrum Disorders  | \$0       | University of Oklahoma Health Sciences Center |
| United States  | Autism Research Institute                          | A Quantitative Study of Pyramidal Cells and Interneurons in the Cerebral Cortex  | \$20,000  | University of South Carolina, Greenville      |
| Australia      | Cooperative Research Centre for Living with Autism | ASD subtype project  | \$0       | University of New South Wales                 |
| United States  | Simons Foundation                                  | Assessing thalamocortical circuit function in TSC1 and NHE6 mouse models   | \$75,000  | Brown University                              |
| Canada         | Canadian Institutes of Health Research             | Assessing the development of elementary and social perception in autism using behavioral and electrophysiological approaches   | \$80,387  | McGill University/Université McGill           |
| United States  | National Institutes of Health                      | Astrocytes contribution to tuberous sclerosis pathology  | \$249,750 | Yale University                               |
| United States  | National Institutes of Health                      | Atypical Late Neurodevelopment in Autism: A Longitudinal Clinical Phenotype and Multimodal Brain Imaging Study   | \$772,038 | University of Wisconsin-Madison               |
| Canada         | Canadian Institutes of Health Research             | Auditory processing in typical development and in autism spectrum disorder: insights from the brain and behavior   | \$45,570  | Université de Montréal                        |
| United States  | Department of Defense - Army                       | AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?  | \$0       | Children's Mercy Hospital                     |

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| United States  | National Institutes of Health                      | Autism-linked endosomal mechanisms in neuronal arborization and connectivity                            | \$406,250 | Brown University                                |
| United States  | Brain & Behavior Research Foundation               | Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development             | \$0       | University of Manitoba                          |
| United States  | National Institutes of Health                      | Autism Spectrum Disorders and Depression: Shared Mechanisms in Brain and Behavior                       | \$160,115 | Vanderbilt University Medical Center            |
| United States  | Simons Foundation                                  | Autophagy pathway alterations in lymphocytes: Potential biomarkers for autism?                          | \$79,551  | Columbia University                             |
| United States  | Simons Foundation                                  | BAZ1B Haploinsufficiency and the Neuro-phenotypes of Williams Syndrome                                  | \$0       | University of California, Santa Barbara         |
| United States  | National Institutes of Health                      | BDNF regulation of the cortical neuron transcriptome  | \$77,000  | University of Colorado Denver                   |
| United States  | Brain & Behavior Research Foundation               | Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry | \$35,000  | Stanford University                             |
| United States  | Autism Speaks                                      | Behavioral and Neural Variability in Autism Spectrum Disorder   | \$0       | Vanderbilt University                           |
| United States  | Simons Foundation                                  | Behavioral effects of fever and other illness on young children with autism –Core                       | \$78,882  | Weill Cornell Medical College                   |
| United States  | Simons Foundation                                  | Behavioral effects of fever and other illness on young children with autism - Project 1                 | \$90,000  | University of California, San Francisco         |
| United States  | National Institutes of Health                      | Bidirectional Tyrosine Kinase Signaling   | \$523,695 | University of Texas Southwestern Medical Center |
| United Kingdom | Wellcome Trust                                     | Biological markers for the development of autism related phenotypes in genetic mouse models             | \$0       | Cardiff University                              |
| United Kingdom | Wellcome Trust                                     | Biological markers for the development of autism related phenotypes in genetic mouse models             | \$0       | Cardiff University                              |
| United States  | National Institutes of Health                      | Biology of Non-Coding RNAs Associated with Psychiatric Disorders  | \$416,850 | University of Southern California               |
| United States  | National Institutes of Health                      | Birth Defects: Moebius syndrome and related facial weakness disorders                                   | \$368,816 | Icahn School of Medicine At Mount Sinai         |
| United States  | National Institutes of Health                      | BPA, Cortical Development and Gene Expression: Implications for Autism                                  | \$236,192 | University of Illinois at Urbana-Champaign      |
| Australia      | Cooperative Research Centre for Living with Autism | Brain connectivity in ASD   | \$0       | University of Queensland                        |
| United States  | Simons Foundation                                  | Brain imaging of treatment response   | \$124,334 | The Hospital for Sick Children                  |
| United States  | Department of Defense - Army                       | BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS                       | \$0       | University of Maryland, College Park            |

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| United States | National Institutes of Health        | Brain Microstructure & Behavior in Newly-Diagnosed Toddlers/Preschoolers with ASD   | \$186,879 | Washington University in St. Louis          |
| United States | Department of Defense - Army         | Brain Network Activation Patterns in Autism Due to Genomic Copy Number Variation  | \$562,429 | Baylor College of Medicine                  |
| United States | National Institutes of Health        | Brain Network Development in Normal and Autistic Children   | \$187,164 | University of Utah                          |
| United States | National Institutes of Health        | Brain Network Dynamics Contributing to Atypical Social Interaction in Autism  | \$523,573 | University of Maryland, College Park        |
| United States | Autism Science Foundation            | Brain Somatic Mosaicism at ASD-Associated Loci  | \$0       | University of Michigan                      |
| United States | National Institutes of Health        | Brain Systems Supporting Learning and Memory in Children with Autism  | \$166,338 | Stanford University                         |
| United States | National Institutes of Health        | Brain Systems Underlying Episodic Memory for Social Stimuli in Childhood Autism   | \$123,112 | Stanford University                         |
| United States | National Science Foundation          | BRIGE: Emotion mapping of children through human-robot interaction and affective computing                                    | \$0       | University of Louisville                    |
| United States | Autism Science Foundation            | Calcium Channels as a Core Mechanism in the Neurobiology of ASD   | \$0       | Massachusetts General Hospital              |
| United States | Simons Foundation                    | Canonical Computations in Autism  | \$137,070 | Baylor College of Medicine                  |
| United States | National Science Foundation          | CAREER: Statistical models and classification of time-varying shape   | \$0       | University of Utah                          |
| United States | National Science Foundation          | CAREER: Typical and atypical development of brain regions for theory of mind  | \$0       | Massachusetts Institute of Technology       |
| United States | National Institutes of Health        | Cdh8-dependent circuit development in autism  | \$423,750 | Icahn School of Medicine At Mount Sinai     |
| United States | National Institutes of Health        | Cell adhesion molecules in autism: a whole-brain study of genetic mouse models  | \$473,750 | Cold Spring Harbor Laboratory               |
| United States | National Institutes of Health        | Cell-specific molecular mechanisms underlying brain pathology in ASD  | \$157,000 | University of California, Davis             |
| United States | Autism Speaks                        | Cell-type and circuit-specific functional deficits in cortex from gene disruptions linked to autism                           | \$0       | University of North Carolina at Chapel Hill |
| United States | National Institutes of Health        | Cell Type-specific Alternative Splicing Controls Cerebral Cortical Development  | \$162,356 | Boston Children's Hospital                  |
| United States | National Institutes of Health        | Cellular and Molecular Analysis of the Schizophrenia and Autism Spectrum Disorder gene Transcription Factor 4 (TCF4)          | \$456,500 | Lieber Institute, Inc.                      |
| United States | Brain & Behavior Research Foundation | Cellular Mechanisms Controlling White Matter Connectivity: Making Sense of a Genetic Risk Factor for Autism and Schizophrenia | \$35,000  | Columbia University                         |

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| United States  | Simons Foundation             | Cellular models for autism de novo mutations using human stem cells   | \$250,000 | Broad Institute, Inc.                  |
| United States  | National Institutes of Health | Chandellier interneurons and the excitation/inhibition balance in the human prefrontal cortex in autism   | \$384,979 | University of California, Davis        |
| United States  | National Institutes of Health | Change in social adaptive action and brain connectivity in infants' first 6 months  | \$165,939 | Emory University                       |
| United Kingdom | Wellcome Trust                | Characterisation of a cortical FoxP1  | \$2,137   | Cardiff University                     |
| United Kingdom | Medical Research Council      | Characterising mice syntenic for human 16p11.2 duplications or deletions in relation to schizophrenia and autism  | \$809,239 | University of Glasgow                  |
| United States  | National Institutes of Health | Characterization of Oxytocin Receptors in Autism Spectrum Disorder  | \$196,250 | University of California, Davis        |
| United States  | National Institutes of Health | Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders  | \$533,529 | University of Wisconsin-Madison        |
| United States  | National Institutes of Health | Characterizing mechanistic heterogeneity across ADHD and Autism   | \$465,839 | Oregon Health & Science University     |
| United States  | Simons Foundation             | Characterizing Sensory Hypersensitivities in Autism   | \$230,098 | Massachusetts General Hospital         |
| United States  | National Institutes of Health | Characterizing the CHD8 Complex to Determine its Role in Autism Spectrum Disorder   | \$43,576  | Stanford University                    |
| United States  | Simons Foundation             | CHD8 and beta-catenin signaling in autism   | \$62,500  | University of Chicago                  |
| United States  | National Institutes of Health | Chloride homeostasis and GABA maturation in fragile X syndrome  | \$193,125 | Northwestern University                |
| United States  | Simons Foundation             | Chromatin remodeling in autism  | \$250,000 | Stanford University                    |
| United States  | National Institutes of Health | Chromosomal Boundary Alterations Driving Transcriptional Dysregulation in Brain Disorders   | \$492,319 | University of California, San Diego    |
| United States  | Department of Defense - Army  | CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS  | \$0       | Naval Medical Research Center          |
| United States  | Autism Speaks                 | Classifying autism etiology by expression networks in neural progenitors and differentiating neurons  | \$0       | Massachusetts General Hospital         |
| United States  | Simons Foundation             | CNTNAP2 regulates production, migration and organization of cortical neurons  | \$0       | Memorial Sloan-Kettering Cancer Center |
| United States  | National Institutes of Health | Cognitive and Neural Flexibility in Autism  | \$474,322 | University of Miami                    |
| United States  | National Science Foundation   | Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning | \$0       | Massachusetts Institute of Technology  |
|                |                               |   |           |  |

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| United States | National Science Foundation          | Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning                                | \$0       | Landmark College                            |
| United States | National Science Foundation          | Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning                                | \$0       | TERC Inc                                    |
| United States | Brain & Behavior Research Foundation | Common Thalamic Circuits for Sleep and Attention   | \$17,500  | New York University                         |
| United States | Simons Foundation                    | Comparison of cortical circuit dysfunction in ASD model mice   | \$125,000 | University of California, Berkeley          |
| United States | National Institutes of Health        | Components of Emotional Processing in Toddlers with ASD  | \$669,551 | Yale University                             |
| United States | National Institutes of Health        | Compressive Genomics for Large Omics Data Sets: Algorithms, Applications and Tools   | \$372,014 | Massachusetts Institute of Technology       |
| United States | National Institutes of Health        | Connectivity of the Posterior Cerebellum   | \$40,176  | Princeton University                        |
| United States | Simons Foundation                    | Convergent signaling pathways linking PTEN and MeCP2, two risk genes for autism spectrum disorders   | \$67,200  | Charité – Medical University of Berlin      |
| United States | National Institutes of Health        | Coordinate actions between methyl-CpG binding proteins in neuronal development   | \$191,250 | University of Wisconsin-Madison             |
| United States | Simons Foundation                    | Correcting excitatory-inhibitory imbalance in autism   | \$112,500 | University of North Carolina at Chapel Hill |
| United States | National Institutes of Health        | Cortical Circuit Dysfunction in Fragile X Syndrome   | \$339,738 | University of Colorado Denver               |
| United States | Autism Speaks                        | Cortical Markers of Central Auditory Processing Disorder in Minimally Verbal Children with ASD   | \$30,400  | Boston University                           |
| United States | National Institutes of Health        | Cortical Plasticity in Autism Spectrum Disorders   | \$437,648 | Beth Israel Deaconess Medical Center        |
| United States | Brain & Behavior Research Foundation | Corticogenesis and Autism Spectrum Disorders: New Hypotheses on Transcriptional Regulation of Embryonic Neurogenesis by FGFs from In Vivo Studies and RNA-sequencing Analysis of Mouse Brain | \$0       | Yale University                             |
| United States | Simons Foundation                    | Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism   | \$0       | New York University                         |
| United States | National Institutes of Health        | CRISPR/Cas9-Based Functional Characterization of ANK2 Mutations in ASD Neural Circuitry  | \$95,886  | Massachusetts General Hospital              |
| United States | Autism Speaks                        | CYFIP function/s in brain: insights into Autism Spectrum Disorders   | \$117,500 | Vlaams Instituut voor Biotechnologie        |

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| United States  | Simons Foundation                    | Decoding Affective Prosody and Communication Circuits in Autism   | \$287,870   | Stanford University                             |
| United States  | National Institutes of Health        | Decoding Neural Systems Underlying Affective Prosody in Children with Autism                              | \$172,398   | Stanford University                             |
| United States  | National Institutes of Health        | Decoding the RGS14 Interactome/Signaling in CA2 hippocampal neurons                                       | \$234,000   | Emory University                                |
| United States  | National Institutes of Health        | Deficits in KCC2 activity and the pathophysiology of Autism spectrum disorders                            | \$206,250   | Tufts University Boston                         |
| United States  | Simons Foundation                    | Defining the Translational Landscape in Mouse Models of Autism - Core                                     | \$68,750    | University of Massachusetts Medical School      |
| United States  | Simons Foundation                    | Defining the Translational Landscape in Mouse Models of Autism - Project 1                                | \$68,750    | University of Texas Southwestern Medical Center |
| United Kingdom | Economic and Social Research Council | Delineating self-other processes in social cognition: Insights from neuropsychology and brain stimulation | \$401,177   | University of Cambridge                         |
| United States  | Simons Foundation                    | Delineating the role of Ras/MAPK signaling in 16p11.2 phenotypes  | \$250,000   | University of California, San Francisco         |
| United States  | National Institutes of Health        | Detecting the Transfer of Maternal Antibodies into the Fetal Rhesus Monkey Brain                          | \$195,729   | University of California, Davis                 |
| United States  | National Institutes of Health        | Determination of the Epigenetic Regulation of Gene Transcription by MECP2 in Neurons                      | \$30,741    | University of Kentucky                          |
| United States  | National Institutes of Health        | Developing measures for community-based research on trauma and related conditions in ASD                  | \$133,492   | Drexel University                               |
| United States  | Brain & Behavior Research Foundation | Developing Neural Markers to Evaluate Social Skills Training in ASD                                       | \$35,000    | California Institute of Technology              |
| United States  | National Institutes of Health        | Developmental Linkage of Metabolic Homeostasis and Sociality  | \$281,746   | Indiana University                              |
| United States  | National Institutes of Health        | Developmental Neurogenomics Unit  | \$2,390,943 | National Institutes of Health                   |
| United States  | National Institutes of Health        | Developmental programming of sex differences in brain innate immune cells                                 | \$183,965   | Ohio State University                           |
| United States  | Brain & Behavior Research Foundation | Developmental Role of Prefrontal Cortex-raphe Circuits in Stress and Mood Disorders                       | \$17,500    | INSERM  |
| United States  | National Institutes of Health        | Developmental Synaptopathies Associated with TSC, PTEN and SHANK3 Mutations                               | \$331,349   | Boston Children's Hospital                      |
| United States  | National Institutes of Health        | Developmental Synaptopathies Associated with TSC, PTEN and SHANK3 Mutations                               | \$216,154   | Boston Children's Hospital                      |
| United States  | National Institutes of Health        | Developmental Synaptopathies Associated with TSC, PTEN and SHANK3 Mutations                               | \$386,566   | Boston Children's Hospital                      |

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| United States | National Institutes of Health                | Developmental Synaptopaties Associated with TSC, PTEN and SHANK3 Mutations                                       | \$89,954  | Boston Children's Hospital              |
| United States | National Institutes of Health                | Development and afferent regulation of auditory neurons  | \$380,000 | Florida State University                |
| United States | National Institutes of Health                | Development of a whole-brain cellular mapping approach in a genetic model of autism and intellectual disability  | \$269,000 | Scripps Research Institute - Florida    |
| United States | National Institutes of Health                | Development of Behavioral and Neural Biomarkers for Autism Spectrum Disorder Using a Genetically Defined Subtype | \$232,184 | Icahn School of Medicine At Mount Sinai |
| United States | Simons Foundation                            | Development of corticothalamic circuits of prefrontal cortex in mouse models of autism                           | \$75,000  | Boston Children's Hospital              |
| Canada        | Canadian Institutes of Health Research       | Development of Gene Therapy for Autism Spectrum and other Neurodevelopmental Disorders                           | \$70,298  | University of Toronto                   |
| United States | National Institutes of Health                | Development of vision and attention in typical and ASD individuals   | \$282,879 | Brown University                        |
| United States | National Institutes of Health                | Direct Examination of Imitation-Based Learning in Autism   | \$282,800 | Kennedy Krieger Institute               |
| United States | National Institutes of Health                | Disrupted auditory cortical plasticity and behavior in a model of Rett syndrome                                  | \$527,412 | Cold Spring Harbor Laboratory           |
| United States | Simons Foundation                            | Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders.  | \$250,000 | Brandeis University                     |
| United States | Simons Foundation                            | Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism  | \$62,500  | Yale University                         |
| United States | Simons Foundation                            | Disruption of Cortical Projection Neurons, Circuits, and Cognition in ASD  | \$248,843 | George Washington University            |
| United States | Department of Defense - Army                 | DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS  | \$0       | Northwestern University                 |
| United States | National Institutes of Health                | Dissecting neural mechanisms integrating multiple inputs in <i>C. elegans</i>                                    | \$485,000 | Salk Institute for Biological Studies   |
| United States | Simons Foundation                            | Dissecting primary motor cortex circuit dysfunction in a mouse model of MeCP2 duplication syndrome               | \$137,500 | Brigham and Women's Hospital            |
| United States | National Institutes of Health                | Dissecting recurrent microdeletion syndromes using dual-guide genome editing                                     | \$580,798 | Massachusetts General Hospital          |
| United States | Autism Speaks                                | Dissecting the 16p11.2 CNV endophenotype in induced pluripotent stem cells                                       | \$0       | University of California, San Francisco |
| United States | Brain & Behavior Research Foundation         | Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders  | \$33,000  | New York University                     |
| Australia     | National Health and Medical Research Council | Dissecting the role of neurologins in cognition  | \$0       | University of Melbourne                 |

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| United States | Simons Foundation                      | Does Astrocyte Dysfunction Contribute to Synaptic Pathologies in Autism?   | \$75,000    | Duke University Medical Center                  |
| United States | Simons Foundation                      | Do toll-like receptor innate immune responses act via autism risk genes to alter neuronal morphology and function? | \$70,000    | Institute of Molecular Biology, Academia Sinica |
| United States | Simons Foundation                      | Do VIP interneurons drive abnormal prefrontal circuit function in autism?  | \$75,000    | University of California, San Francisco         |
| United States | National Institutes of Health          | Dynamic regulation of Shank3 and ASD   | \$602,491   | Johns Hopkins University                        |
| United States | Brain & Behavior Research Foundation   | Dysfunction of Cortical Systems for Language and Working Memory in Autism Spectrum Disorder                        | \$17,500    | Boston University                               |
| United States | Simons Foundation                      | Dysregulation of mTor/Tsc in 22q11DS Autism Model  | \$125,000   | George Washington University                    |
| United States | National Institutes of Health          | Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders                         | \$1,626,666 | National Institutes of Health                   |
| United States | National Institutes of Health          | Early Life Seizures Disrupt Critical Period Plasticity   | \$411,265   | University of Pennsylvania                      |
| United States | National Institutes of Health          | Early Social Communication Environment and Brain Development in Infants at Risk for Autism                         | \$88,597    | University of North Carolina at Chapel Hill     |
| United States | National Institutes of Health          | Effects of Social Gaze Training on Brain and Behavior in Fragile X Syndrome  | \$353,914   | Stanford University                             |
| Canada        | Canadian Institutes of Health Research | eIF4E-mediated translational control of synaptic function in memory formation and autism                           | \$120,025   | Université de Montréal                          |
| United States | Simons Foundation                      | Electrophysiological consequences of SCN2A mutations found in ASD  | \$0         | University of California, San Francisco         |
| United States | National Institutes of Health          | Electrophysiological Response to Executive Control Training in Autism  | \$233,604   | Boston Children's Hospital                      |
| United States | National Institutes of Health          | Electrophysiological Signatures of Language Impairment in Autism Spectrum Disorder                                 | \$318,519   | Children's Hospital of Philadelphia             |
| United States | National Institutes of Health          | Elucidating cutaneous mechanosensory circuits, from development to disease   | \$831,501   | Harvard Medical School                          |
| United States | Autism Speaks                          | Elucidating synapse-specific defects underlying autism   | \$30,400    | University of Utah                              |
| United States | National Institutes of Health          | Emergence, Stability and Predictors of Anxiety in Fragile X Syndrome   | \$740,752   | University of South Carolina                    |
| United States | National Institutes of Health          | Emergence and Stability of Autism in Fragile X Syndrome  | \$714,793   | University of South Carolina                    |
| United States | National Institutes of Health          | Endocannabinoids in social and repetitive behavioral domains   | \$143,746   | Vanderbilt University                           |

| Funder        | Funder                                       | Project Title  | Funding     | Institution                                 |
|---------------|--|--|-------------|---|
| United States | National Institutes of Health                | Endoplasmic Reticulum Stress as a Novel Mechanism of Synaptic Dysfunction in Autism-Associated NLGN3 R451C Human Neurons   | \$37,840    | Rutgers Robert Wood Johnson Medical School  |
| United States | National Institutes of Health                | Engrailed genes and cerebellum morphology, spatial gene expression and circuitry   | \$639,375   | Memorial Sloan-Kettering Cancer Center      |
| United States | National Institutes of Health                | Environmental Influence on Infant Microbiome Development and ASD Symptoms  | \$699,660   | University of California, Davis             |
| United States | National Institutes of Health                | Environmental Influences on Neurodevelopmental Outcome in Infants Born Very Preterm  | \$1,542,929 | Women & Infants Hospital                    |
| United States | National Institutes of Health                | Environmental Toxins and Microglia-Synapse Interactions in Autism  | \$396,969   | Massachusetts General Hospital              |
| United States | Autism Speaks                                | Evaluating the association between parental broader autism phenotype and child ASD phenotype   | \$30,400    | University of North Carolina at Chapel Hill |
| United States | National Institutes of Health                | Evaluating the effect of splicing mutations on isoform networks in autism  | \$420,427   | University of California, San Diego         |
| United States | Brain & Behavior Research Foundation         | Evoked Neurotransmitter and Neurochemical Amygdala Responses and Autonomic Arousal to Social Threat and Safety Signals in Typically Developing and Autistic Children and Adolescents | \$35,000    | University of Wisconsin-Madison             |
| United States | Brain & Behavior Research Foundation         | Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia   | \$14,931    | Yale University                             |
| United States | National Institutes of Health                | Executive Function in Children with Typical and Atypical Language Abilities  | \$564,177   | University of Wisconsin-Madison             |
| United States | National Institutes of Health                | Experience-dependent plasticity of synaptic structure.-Resubmission-1  | \$370,781   | New York University School of Medicine      |
| United States | Simons Foundation                            | Explore the pathogenic role of mTor signaling in chr16p11.2 microdeletion  | \$0         | Children's Hospital Los Angeles             |
| United States | Simons Foundation                            | Exploring Sex Differences in ASD via the NRXN1 KO Rat  | \$75,000    | University of Maryland, College Park        |
| United States | Simons Foundation                            | Exploring the Intersection of Autism and Homeostatic Synaptic Plasticity   | \$0         | University of California, San Francisco     |
| Australia     | National Health and Medical Research Council | Exploring the neuropathophysiology of autism spectrum disorders  | \$0         | Deakin University                           |
| United States | National Institutes of Health                | Eyeblink conditioning in school-aged children with ASD   | \$497,699   | Seattle Children's Hospital                 |
| United States | National Institutes of Health                | FMRP and Pumilio co-regulate synaptogenesis by controlling Neuroglial expression   | \$27,936    | Vanderbilt University                       |

| Funder        | Funder                        | Project Title  | Funding     | Institution   |
|---------------|-------------------------------|--|-------------|---|
| United States | Autism Speaks                 | Folate receptor autoimmunity in Autism Spectrum Disorders  | \$0         | State University of New York Downstate Medical Center |
| United States | National Institutes of Health | Formation and Function of Circuitry for Vocal Learning   | \$361,456   | University of California, Los Angeles                 |
| United States | Department of Defense - Army  | Forward Genetic Screen to Identify Novel Therapeutic Entry Points of an Autism Spectrum Disorder | \$587,878   | Baylor College of Medicine                            |
| United States | Autism Speaks                 | Foundation Associates agreement (BrainNet)   | \$375,000   | Foundation Associates, LLC                            |
| United States | Simons Foundation             | Foxp1 orchestration of neuronal function in the striatum   | \$73,345    | University of Texas Southwestern Medical Center       |
| United States | National Institutes of Health | Foxp2 regulation of sex specific transcriptional pathways and brain development                  | \$249,000   | Virginia Polytechnic Institute and State University   |
| United States | National Institutes of Health | Fragile X Phenotypes Modulated by Altered Signaling to the Synaptic Cytoskeleton                 | \$343,438   | Duke University                                       |
| United States | National Institutes of Health | Functional analysis of Neuroligin-Neurexin interactions in synaptic transmission                 | \$366,406   | University of Massachusetts Medical School            |
| United States | National Institutes of Health | Functional Analysis of Rare Variants in Genes Associated with Autism                             | \$147,905   | Yale University                                       |
| United States | Simons Foundation             | Functional and behavioral analysis of zebrafish ASD models                                       | \$74,975    | University of Queensland                              |
| United States | National Institutes of Health | Functional and Structural Optical Brain Imaging  | \$822,591   | National Institutes of Health                         |
| United States | National Institutes of Health | Functional architecture of a face processing area in the common marmoset                         | \$48,576    | Weill Cornell Medical College                         |
| United States | National Institutes of Health | Functional connectivity substrates of social and non-social deficits in ASD                      | \$702,426   | Massachusetts General Hospital                        |
| United States | National Institutes of Health | Functional dissection of mammalian vocal communication   | \$343,454   | University of Texas Southwestern Medical Center       |
| United States | National Institutes of Health | Functional Genomics of Human Brain Development   | \$266,096   | Yale University                                       |
| United States | National Institutes of Health | Functional Genomics of Human Brain Development   | \$1,621,706 | Yale University                                       |
| United States | National Institutes of Health | Function and Structure Adaptations in Forebrain Development                                      | \$590,225   | Children's Hospital Los Angeles                       |
| United States | National Institutes of Health | GABA(A) Receptor Assembly/Trafficking/Function and Epilepsy Missense Mutations                   | \$51,188    | Vanderbilt University                                 |
| United States | National Institutes of Health | GABA(A) Receptor Assembly/Trafficking/Function and Epilepsy Missense Mutations                   | \$255,937   | Vanderbilt University Medical Center                  |
| United States | National Institutes of Health | GABAergic Neurophysiology in Autism Spectrum Disorder  | \$195,048   | Stanford University                                   |

| Funder         | Funder                                 | Project Title   | Funding   | Institution  |
|----------------|--|---|-----------|--|
| United States  | National Institutes of Health          | GABRB3 and Placental Vulnerability in ASD   | \$580,565 | Stanford University                                    |
| United States  | National Institutes of Health          | Gaining insight into psychiatric disease by engineering piece by piece the human brain in vitro.  | \$489,075 | Stanford University                                    |
| United States  | Simons Foundation                      | Gender and temporoparietal network interactions in autism   | \$70,000  | Princeton University                                   |
| United States  | National Institutes of Health          | Genetic and Developmental Analyses of Fragile X Mental Retardation Protein  | \$383,322 | Vanderbilt University                                  |
| United States  | National Institutes of Health          | Genetic-imaging study of obsessive compulsive behavior in autism  | \$316,135 | Brown University                                       |
| United States  | National Institutes of Health          | Genetic models for social attachment deficits in psychiatric illness  | \$184,131 | University of California, San Francisco                |
| United States  | Autism Science Foundation              | Genetic mutations in chromosome 16 and their role in autism   | \$25,000  | University of Texas Southwestern Medical Center        |
| United States  | Simons Foundation                      | Genetic rescue of a mouse model of Fragile X by targeted deletion of RICTOR   | \$70,000  | Albert Einsteign College of Medicine                   |
| United States  | Autism Science Foundation              | Genetics Behind Brain Connectivity in ASD   | \$0       | University of Texas Southwestern Medical Center        |
| United States  | National Institutes of Health          | Genetics of conotruncal defects and associated neurodevelopmental outcomes  | \$453,446 | Icahn School of Medicine At Mount Sinai                |
| United States  | National Institutes of Health          | Genomics Core   | \$109,153 | University of California, San Diego                    |
| United States  | National Institutes of Health          | Genotype-Phenotype Relationships in Fragile X Families  | \$547,472 | University of California, Davis                        |
| United States  | Brain & Behavior Research Foundation   | Genotype to Phenotype Association in Autism Spectrum Disorders  | \$32,500  | Massachusetts General Hospital                         |
| United States  | National Science Foundation            | Gesture as a forerunner of linguistic change-insights from autism   | \$0       | Georgia State University                               |
| United Kingdom | Wellcome Trust                         | Getting the Balance Right: Adaptation to sudden environmental changes in postural control in adults with Autism Spectrum Disorder (ASD)   | \$2,849   | Queen's University Belfast                             |
| United States  | Autism Science Foundation              | Grabbing the attention of females with autism spectrum disorder: An eye tracking study  | \$5,000   | Instituto Nacional de Sade Doutor Ricardo Jorge (INSA) |
| United States  | National Institutes of Health          | Heparan sulfate in neurophysiology and neurological disorders   | \$425,746 | Sanford Burnham Prebys Medical Discovery Institute     |
| United States  | National Institutes of Health          | High content assays for cellular and synaptic phenotypes  | \$421,623 | University of California, San Diego                    |
| Canada         | Canadian Institutes of Health Research | High-throughput identification and characterization of novel compounds that increase splicing inclusion of neural-specific "micro-exons". | \$6,656   | University of Toronto                                  |

| Funder        | Funder                                       | Project Title  | Funding   | Institution                                     |
|---------------|--|--|-----------|---|
| United States | National Institutes of Health                | Hippocampal mechanisms in observational learning   | \$397,754 | Baylor College of Medicine                      |
| United States | Simons Foundation                            | Hippocampal mechanisms of social learning in animal models of autism   | \$0       | Baylor College of Medicine                      |
| Australia     | National Health and Medical Research Council | How can trafficking of the tumour suppressor PTEN affect normal and abnormal brain development?                    | \$0       | University of Melbourne                         |
| United States | Simons Foundation                            | How do autism-related mutations affect basal ganglia function?   | \$62,500  | University of California, Berkeley              |
| United States | Autism Speaks                                | Identification and validation of genetic variants which cause the Autism Macrocephaly subphenotype                 | \$0       | University of California, Los Angeles           |
| United States | Simons Foundation                            | Identification of genes responsible for a genetic cause of autism  | \$125,000 | Case Western Reserve University                 |
| United States | National Institutes of Health                | Identification of human-relevant CLOCK molecular signaling pathways  | \$242,625 | University of Texas Southwestern Medical Center |
| United States | Simons Foundation                            | Identification of shared transcriptional profiles with three high-confidence autism mouse models                   | \$100,000 | University of North Carolina at Chapel Hill     |
| United States | Simons Foundation                            | Identifying autism-associated signaling pathways regulated by CHD8 in vivo   | \$62,500  | King's College London                           |
| Australia     | National Health and Medical Research Council | Identifying endophenotypes for schizophrenia and autism: A support vector machine learning approach                | \$0       | University of Western Australia                 |
| United States | Simons Foundation                            | Illuminating the role of glia in a zebrafish model of Rett syndrome  | \$125,000 | University of California, San Diego             |
| United States | National Institutes of Health                | Imaging adaptive cerebellar processing at cellular resolution in awake mice  | \$428,215 | Princeton University                            |
| United States | National Institutes of Health                | Imaging Brain Function in Children with Autism Spectrum Disorders with Diffuse Optical Tomography                  | \$141,178 | Washington University in St. Louis              |
| United States | Department of Defense - Army                 | IMAGING DEPRESSION IN ADULTS WITH ASD  | \$0       | State University of New York at Stony Brook     |
| Canada        | Canadian Institutes of Health Research       | Imaging neural circuit dynamics in the awake developing brain: Identifying origins of neurodevelopmental disorders | \$345,903 | University of British Columbia                  |
| United States | Simons Foundation                            | Immune p38-alpha MAPK activation: Convergent mechanism linking autism models                                       | \$214,613 | Florida Atlantic University                     |
| United States | National Institutes of Health                | Immune regulation and neurodevelopmental disorders   | \$235,500 | University of California, Davis                 |
| United States | Simons Foundation                            | Immune signaling in the developing brain in mouse models of ASD  | \$200,000 | University of California, Davis                 |

| Funder        | Funder                                 | Project Title   | Funding   | Institution   |
|---------------|--|---|-----------|---|
| United States | Simons Foundation                      | Impact of Pten mutations: brain growth trajectory and scaling of cell types                                     | \$0       | Scripps Research Institute                          |
| United States | National Institutes of Health          | Impact of SynGAP1 Mutations on Synapse Maturation and Cognitive Development                                     | \$614,568 | Scripps Research Institute - Florida                |
| Canada        | Brain Canada Foundation                | Impaired translational regulation of brain development in autism spectrum disorders                             | \$43,930  | McGill University                                   |
| United States | National Institutes of Health          | Impairments of Theory of Mind disrupt patterns of brain activity  | \$319,719 | Massachusetts Institute of Technology               |
| United States | Department of Defense - Army           | IMPLICIT LEARNING ABILITIES PREDICT TREATMENT RESPONSE IN AUTISM SPECTRUM DISORDERS                             | \$0       | Weill Cornell Medical College                       |
| United States | National Institutes of Health          | Induced neuronal cells: A novel tool to study neuropsychiatric diseases   | \$615,259 | Stanford University                                 |
| United States | National Institutes of Health          | Infant Vocal Communication: Typical Development and Autism Risk   | \$565,736 | University of Memphis                               |
| United States | National Institutes of Health          | Inhibitory dysfunction in autism  | \$552,541 | University of Washington                            |
| United States | National Institutes of Health          | Integration of Emerging Technologies to Define the Spectrum of Structural Variation in Neuropsychiatric Disease | \$58,794  | Massachusetts General Hospital                      |
| United States | National Institutes of Health          | Integrity and Dynamic Processing Efficiency of Networks in ASD  | \$620,386 | San Diego State University                          |
| United States | Simons Foundation                      | Interneuron subtype-specific malfunction in autism spectrum disorders   | \$120,000 | New York University School of Medicine              |
| United States | Brain & Behavior Research Foundation   | Interpersonal Neural Coordination During Social Interaction in Children with Autism Spectrum Disorders          | \$34,970  | University of Pittsburgh                            |
| United States | Brain & Behavior Research Foundation   | Interrogating Synaptic Transmission in Human Neurons  | \$17,500  | Stanford University                                 |
| United States | Autism Science Foundation              | Investigating Autism with Direct Intracranial Recordings  | \$0       | California Institute of Technology                  |
| Canada        | Canadian Institutes of Health Research | Investigating cortical plasticity in autism spectrum disorders with transcranial magnetic stimulation           | \$21,965  | Beth Israel Deaconess Medical Center (Boston)       |
| Canada        | Canadian Institutes of Health Research | Investigating mRNA translational control in the quest to cure human disease.                                    | \$798,577 | McGill University/Universite McGill                 |
| United States | Autism Speaks                          | Investigating Shank3 function during synaptogenesis in mice to define a therapeutic window for ASD.             | \$30,000  | Duke University                                     |
| United States | National Institutes of Health          | Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation                             | \$396,400 | Virginia Polytechnic Institute and State University |
| United States | Simons Foundation                      | In vivo approach to screen ASD allele functions in cortical interneurons  | \$62,500  | University of California, San Francisco             |

| Funder         | Funder   | Project Title   | Funding   | Institution  |
|----------------|--|---|-----------|--|
| Canada         | Canadian Institutes of Health Research             | In-vivo Imaging of Neuroinflammation in Autism Spectrum Disorder  | \$74,861  | Centre for Addiction and Mental Health (Toronto)/Centre de toxicomanie et de santé mentale |
| United States  | Brain & Behavior Research Foundation               | In vivo Imaging of Prefrontal Cortical Activity During Social Interactions in Normal and Autism Mice                          | \$35,000  | Duke University  |
| Canada         | Canadian Institutes of Health Research             | In vivo observation of the influence of inflammation on glial calcium dynamics and phagocytosis in brain development          | \$13,978  | McGill University/Université McGill  |
| United States  | National Institutes of Health                      | Language Development in Fragile X Syndrome  | \$498,095 | University of California, Davis  |
| Australia      | Australian Research Council                        | Language-specific and physiological motor-control influences on children's production of lexical stress                       | \$0       | University of Sydney   |
| United States  | Simons Foundation                                  | Linking circuit dynamics and behavior in a rat model of autism  | \$39,613  | University of California, San Francisco  |
| United States  | Simons Foundation                                  | Linking cortical circuit dysfunction and abnormal behavior in genetic mouse models of autism                                  | \$0       | University of California, Los Angeles  |
| United States  | National Institutes of Health                      | Linking Defects in Cortical Network Activity with Altered Sensory Perception in Fragile X Mice                                | \$35,845  | University of California, Los Angeles  |
| Australia      | Cooperative Research Centre for Living with Autism | Literacy predictors   | \$0       | Griffith University  |
| United States  | National Institutes of Health                      | Longitudinal Investigation of Social-Communication and Attention Processes in School-Aged Children at Genetic Risk for Autism | \$723,224 | University of California, Davis  |
| United States  | National Institutes of Health                      | Long non-coding RNAs in gene regulatory networks underlying Autism  | \$253,538 | Icahn School of Medicine At Mount Sinai  |
| United States  | National Institutes of Health                      | Loss and rescue of endocannabinoid-dependent LTP and memory in Fragile-X model mice   | \$460,044 | University of California, Irvine   |
| United Kingdom | Wellcome Trust                                     | Loss of GABAergic cells and night-time hyperactivity in zebrafish mutants of autism risk genes                                | \$2,849   | University College London  |
| United States  | National Institutes of Health                      | M1 circuit dysfunction in MECP2 duplication syndrome  | \$282,068 | Brigham and Women's Hospital   |
| United States  | Simons Foundation                                  | MAGEL2, a candidate gene for autism and Prader-Willi syndrome   | \$53,753  | University of Alberta  |
| United States  | National Institutes of Health                      | Magnetoencephalographic studies of lexical processing and abstraction in autism   | \$310,373 | University of Pennsylvania   |
| United States  | Department of Defense - Army                       | MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER   | \$0       | Feinstein Institute for Medical Research   |

| Funder         | Funder                               | Project Title   | Funding     | Institution                                     |
|----------------|--------------------------------------|---|-------------|---|
| United States  | National Institutes of Health        | Maternal Immune Activation in a Genetic Mouse Model of ASD  | \$375,316   | University of Nebraska Medical Center           |
| United States  | National Institutes of Health        | Maximizing Biospecimen Collection from Children with Mental Health Conditions   | \$266,785   | Group Health Cooperative                        |
| United States  | Simons Foundation                    | Measuring the size of face regions in female and males  | \$58,035    | University of York                              |
| United States  | National Institutes of Health        | Mechanisms of Brain Dysfunction in Tuberous Sclerosis   | \$333,594   | Washington University in St. Louis              |
| United States  | National Institutes of Health        | Mechanisms of circuit failure and treatments in patient-derived neurons in autism   | \$406,250   | Brown University                                |
| United States  | Brain & Behavior Research Foundation | Mechanisms of eIF4E-dependent Translational Control in Autism   | \$66,667    | McGill University                               |
| United States  | National Institutes of Health        | Mechanisms of Motor Skill Learning in the Fragile X Mouse Model   | \$305,056   | University of Nebraska Medical Center           |
| United States  | Autism Science Foundation            | Mechanisms of sensory processing in ASD   | \$25,000    | University of Rochester                         |
| United States  | National Institutes of Health        | Mechanisms of Synapse Remodeling in TSC   | \$126,066   | Boston Children's Hospital                      |
| United States  | Department of Defense - Army         | Mechanisms of synaptic alterations in a neuroinflammation model of autism   | \$0         | University of Nebraska Medical Center           |
| United States  | Simons Foundation                    | Mechanisms that Connect Autism with Homeostatic Synaptic Plasticity   | \$125,000   | University of California, San Francisco         |
| United States  | National Institutes of Health        | Mechanisms underlying the Cerebellar Contribution to Autism in Mouse Models of Tuberous Sclerosis Complex                         | \$190,458   | University of Texas Southwestern Medical Center |
| United States  | National Institutes of Health        | Mechanisms underlying word learning in children with ASD: Non-social learning and   | \$172,195   | Boston University                               |
| United States  | National Institutes of Health        | Mechanisms underlying word learning in fragile X syndrome and nonsyndromic ASD  | \$156,917   | University of California, Davis                 |
| United States  | National Institutes of Health        | Mechanotransduction C. elegans  | \$588,908   | Massachusetts General Hospital                  |
| United States  | National Institutes of Health        | MEG Studies of Auditory Processing in Minimally/Non-Verbal Children with ASD and Intellectual Disability                          | \$245,548   | Children's Hospital of Philadelphia             |
| United Kingdom | Economic and Social Research Council | Memory consolidation in typical and atypical development  | \$1,450,930 | University of York                              |
| United Kingdom | Autistica                            | Mental Health fellow 1: Why children with autism behave differently, including the role of family and wider environmental factors | \$0         | King's College London                           |
| United Kingdom | Autistica                            | Mental Health fellow 2: Social anxiety in autism  | \$0         | King's College London                           |
| United Kingdom | Autistica                            | Mental Health fellow 3: Identifying chemical imbalances to develop autism-specific mental health treatments                       | \$0         | King's College London                           |

| Funder         | Funder                                 | Project Title   | Funding     | Institution                                     |
|----------------|--|---|-------------|---|
| United Kingdom | Economic and Social Research Council   | Metacognition and Mindreading: One system or two?   | \$0         | University of Kent                              |
| United Kingdom | Medical Research Council               | MICA: Correction of behavioural, circuit and cellular deficits in rat models of ID/ASD  | \$1,560,632 | University of Edinburgh                         |
| United States  | National Institutes of Health          | Microbiota and Neural Circuits controlling Social Behavior  | \$226,750   | Georgia State University                        |
| United States  | Simons Foundation                      | Microglia in models of normal brain development, prenatal immune stress and genetic risk for autism                                       | \$200,000   | Harvard Medical School                          |
| United States  | National Institutes of Health          | Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism  | \$183,568   | Columbia University                             |
| United States  | Brain & Behavior Research Foundation   | Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glia Co-cultures   | \$35,000    | Whitehead Institute for Biomedical Research     |
| United States  | Simons Foundation                      | Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster  | \$0         | University of California, Los Angeles           |
| United States  | Brain & Behavior Research Foundation   | Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4 | \$0         | University of North Carolina at Chapel Hill     |
| Canada         | Canadian Institutes of Health Research | Modelling syndromic autism caused by mutations in the ADNP gene   | \$59,904    | Hospital for Sick Children (Toronto)            |
| United States  | Autism Speaks                          | Molecular analysis of gene-environment interactions in the intestines of children with autism   | \$0         | Columbia University                             |
| United States  | National Institutes of Health          | Molecular causes of cognitive and autistic disabilities   | \$520,996   | Tufts University Boston                         |
| United States  | Simons Foundation                      | Molecular characterization of temperature sensitive circuits in the mouse   | \$180,000   | Harvard University                              |
| United States  | Simons Foundation                      | Molecular consequences of strong effect ASD mutations including 16p11.2   | \$250,000   | Massachusetts General Hospital                  |
| United States  | Brain & Behavior Research Foundation   | Molecular Dimorphism in the Locus Coeruleus May Mediate Sex-specific Differences in Psychiatric Disease Risk                              | \$25,000    | Washington University in St. Louis              |
| United States  | National Institutes of Health          | Molecular mechanisms of electrical synapse formation in vivo  | \$249,000   | University of Oregon                            |
| United States  | National Institutes of Health          | Molecular mechanisms of the synaptic organizer alpha-neurexin   | \$379,844   | University of Texas Medical Branch at Galveston |
| United States  | National Institutes of Health          | Molecular Pathogenesis Studies of Rett Syndrome   | \$346,719   | Baylor College of Medicine                      |
| United States  | Autism Speaks                          | Monitoring Treatment-Induced Neuroanatomical Changes in a Mouse Model of Rett Syndrome  | \$30,000    | The Hospital for Sick Children                  |

| Funder        | Funder                                 | Project Title  | Funding     | Institution                                 |
|---------------|--|--|-------------|---|
| United States | National Institutes of Health          | Monoallelic expression in neurons derived from induced pluripotent stem cells  | \$417,500   | Albert Einsteign College of Medicine        |
| United States | National Institutes of Health          | Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease   | \$824,579   | Rockefeller University                      |
| United States | National Institutes of Health          | Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease   | \$220,350   | Rockefeller University                      |
| United States | Simons Foundation                      | Mouse Model of Dup15q Syndrome   | \$0         | Texas AgriLife Research                     |
| United States | National Science Foundation            | MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills   | \$0         | Emerson College                             |
| United States | National Institutes of Health          | MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism  | \$728,507   | Boston Children's Hospital                  |
| United States | National Institutes of Health          | mTOR modulation of myelination   | \$179,658   | Vanderbilt University Medical Center        |
| United States | National Institutes of Health          | mTOR modulation of myelination   | \$1         | Vanderbilt University                       |
| United States | Brain & Behavior Research Foundation   | Multimodal Characterization of the Brain Phenotype in Children with Duplication of the 7q11.23 Williams Syndrome Chromosomal Region: A Well-defined Genetic Model for Autism | \$100,000   | National Institutes of Health               |
| United States | National Institutes of Health          | Multimodal Developmental Neurogenetics of Females with ASD   | \$2,525,159 | George Washington University                |
| United States | National Institutes of Health          | Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder   | \$531,432   | San Diego State University                  |
| United States | National Institutes of Health          | Multiscale Genetic Connectivity of Primate Social Circuits   | \$643,674   | University of Utah                          |
| United States | Autism Speaks                          | Na <sup>+</sup> -H <sup>+</sup> Exchanger Mechanisms in Autism Pathophysiology and Treatment   | \$0         | Brown University                            |
| United States | National Institutes of Health          | Network Abnormalities in Autism  | \$77,313    | University of Vermont                       |
| United States | National Science Foundation            | Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases   | \$0         | University of Washington                    |
| United States | Simons Foundation                      | Neural and cognitive discoordination in autism-related mouse models  | \$0         | New York University                         |
| United States | Brain & Behavior Research Foundation   | Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD  | \$17,500    | Columbia University                         |
| United States | National Institutes of Health          | Neural basis of working memory and inhibitory control in ASD Children using NIRS   | \$30,876    | Georgetown University                       |
| United States | National Institutes of Health          | Neural basis underlying autistic behaviors   | \$288,000   | Scripps Research Institute - Florida        |
| Canada        | Canadian Institutes of Health Research | Neural circuitry linking oxytocin deficiency and social impairment in ASD  | \$52,915    | University of California (Los Angeles)      |
| United States | National Institutes of Health          | Neural Circuits That Regulate Social Motivation in Autism  | \$148,379   | University of North Carolina at Chapel Hill |

| Funder        | Funder                                       | Project Title   | Funding   | Institution   |
|---------------|--|---|-----------|---|
| United States | National Institutes of Health                | Neural Correlates of Biological Motion Perception in Children with ASD                      | \$59,410  | Yale University   |
| United States | National Institutes of Health                | Neural Correlates of Biological Motion Perception in Children with ASD                      | \$117,544 | Seattle Children's Hospital                                       |
| United States | Department of Defense - Army                 | Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model            | \$0       | Children's Hospital of Philadelphia                               |
| United States | Department of Defense - Army                 | Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model            | \$0       | Nemours Children's Health System, Jacksonville                    |
| United States | National Institutes of Health                | Neural Mechanisms for Social Interactions and Eye Contact in ASD                            | \$713,408 | Yale University   |
| United States | Simons Foundation                            | Neural mechanisms of social reward in mouse models of autism                                | \$249,994 | Stanford University   |
| United States | National Institutes of Health                | Neural networks for attention to internal and external sensory cues in ASD                  | \$394,652 | Vanderbilt University Medical Center                              |
| United States | National Institutes of Health                | Neural Phenotypes of Females with Autism Spectrum Disorder                                  | \$696,633 | University of California, Davis                                   |
| Canada        | Canadian Institutes of Health Research       | Neural prosthetics for cognitive dysfunction in the primate brain.                          | \$14,976  | Montreal Neurological Institute/Institut neurologique de Montréal |
| Canada        | Canadian Institutes of Health Research       | Neural prosthetics for cognitive dysfunction in the primate brain.                          | \$21,965  | Montreal Neurological Institute/Institut neurologique de Montréal |
| United States | Autism Speaks                                | Neural Synchrony and Plasticity in Children with Autism                                     | \$0       | University of North Carolina at Chapel Hill                       |
| United States | National Institutes of Health                | Neurobehavioral Research on Infants at Risk for Language Delay and ASD                      | \$740,072 | Boston University   |
| Australia     | National Health and Medical Research Council | Neurobiological "risk" and "resilience" biomarkers of severe mental illness                 | \$682,980 | University of Melbourne   |
| United States | Simons Foundation                            | Neurobiological basis of connectivity deficits in autism                                    | \$67,436  | Fondazione Istituto Italiano di Tecnologia                        |
| United States | Autism Speaks                                | Neurobiological foundations of self-conscious emotion understanding in adolescents with ASD | \$30,000  | University of Oregon  |
| United States | National Institutes of Health                | Neurobiological Mechanism of 15q11-13 Duplication Autism Spectrum Disorder                  | \$380,625 | Beth Israel Deaconess Medical Center                              |
| United States | National Institutes of Health                | Neurobiology of Autism With Macrocephaly  | \$614,548 | Yale University   |
| United States | Simons Foundation                            | Neurobiology of Rai1, a critical gene for syndromic ASDs                                    | \$175,000 | Stanford University   |
| United States | National Institutes of Health                | Neurodevelopmental Phenotypes in MLL mutant mice  | \$435,379 | Icahn School of Medicine At Mount Sinai                           |
| United States | National Institutes of Health                | Neurodevelopment of cognitive control in autism: adolescence to young adulthood             | \$702,174 | University of California, Davis                                   |
| United States | Simons Foundation                            | Neurexin function in the prefrontal cortex and autism pathogenesis                          | \$250,000 | Stanford University   |

| Funder         | Funder                                 | Project Title  | Funding   | Institution                                 |
|----------------|--|--|-----------|---|
| United States  | National Institutes of Health          | Neuronal Activity-Dependent Regulation of MeCP2  | \$606,287 | Harvard Medical School                      |
| United States  | National Institutes of Health          | Neuronal Adaptation and Plasticity after Chronic Disuse                                    | \$423,750 | New York University School of Medicine      |
| United States  | National Institutes of Health          | Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder          | \$138,243 | University of Pennsylvania                  |
| United States  | National Institutes of Health          | Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder          | \$174,607 | Duke University                             |
| United States  | National Institutes of Health          | Neuronal Correlates of Autistic Traits in ADHD and Autism                                  | \$785,428 | New York University School of Medicine      |
| United States  | Simons Foundation                      | Neuronal translation in Tsc2+/- and Fmr1-/y mutant ASD mouse models                        | \$124,999 | Columbia University                         |
| United States  | National Institutes of Health          | Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder           | \$670,458 | University of California, Davis             |
| United States  | National Institutes of Health          | Neurotrophic Factor Regulation of Gene Expression  | \$622,854 | Harvard Medical School                      |
| United States  | National Institutes of Health          | New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso          | \$396,250 | Cleveland Clinic                            |
| United States  | Autism Speaks                          | Nonsocial Interests and Reward Processing in Autism Spectrum Disorders                     | \$30,000  | Vanderbilt University                       |
| United States  | National Institutes of Health          | Novel non-cell autonomous mechanisms of callosal dysgenesis in CHARGE syndrome             | \$34,952  | University of Michigan                      |
| Canada         | Canadian Institutes of Health Research | Novel pharmacogenetic strategies to reverse autism-like phenotypes in mouse models of ASD. | \$36,481  | McGill University/Université McGill         |
| United States  | Simons Foundation                      | Novel technology for behavioral phenotyping of autism mouse models                         | \$75,000  | California Institute of Technology          |
| United Kingdom | Economic and Social Research Council   | One step ahead: Prediction of other people's behavior in healthy and autistic individuals. | \$0       | Plymouth University                         |
| United States  | Simons Foundation                      | Optical imaging of circuit dynamics in autism models in virtual reality                    | \$0       | Harvard Medical School                      |
| United States  | National Institutes of Health          | Optimizing Prediction of Social Deficits in Autism Spectrum Disorders                      | \$428,200 | State University of New York at Stony Brook |
| United States  | National Institutes of Health          | Optogenetic treatment of social behavior in autism   | \$395,996 | University of California, Los Angeles       |
| United States  | National Institutes of Health          | Organization of Excitatory and Inhibitory Circuits in ASD                                  | \$409,250 | Boston University                           |
| United States  | Simons Foundation                      | Parameterizing Neural Habituation in ASD with Sensory Overresponsivity                     | \$124,973 | University of California, Los Angeles       |
| United States  | National Institutes of Health          | Perception and central coherence in autism: A family genetic eye-tracking study            | \$73,594  | Northwestern University                     |

| Funder        | Funder                        | Project Title   | Funding     | Institution                                 |
|---------------|-------------------------------|---|-------------|---|
| United States | National Institutes of Health | Peripersonal Space Representation as a Basis for Social Deficits in Autism and Schizophrenia Spectrum Disorders | \$237,000   | Vanderbilt University Medical Center        |
| United States | Autism Speaks                 | PET/MRI investigation of neuroinflammation in autism spectrum disorders   | \$0         | Massachusetts General Hospital              |
| United States | National Institutes of Health | Phenotyping Astrocytes in Human Neurodevelopmental Disorders  | \$386,463   | Stanford University                         |
| United States | National Institutes of Health | Pre-adolescent and Late-adolescent Follow-up of the CHARGE Study Children                                       | \$1,569,427 | University of California, Davis             |
| United States | Department of Defense - Army  | PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER              | \$0         | University of North Carolina at Chapel Hill |
| United States | Department of Defense - Army  | PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER              | \$0         | Duke University                             |
| United States | Department of Defense - Army  | PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER              | \$0         | Duke University                             |
| United States | National Institutes of Health | Predicting Preschool Psychopathology with Brain Connectivity in Preterm Neonates                                | \$169,998   | Washington University in St. Louis          |
| United States | National Institutes of Health | Predicting Voice Quality in ASD from Early Markers of Vocal Development   | \$67,078    | Emory University                            |
| United States | National Institutes of Health | Predictors of Cognitive Development in Autism Spectrum Disorder   | \$510,456   | University of California, Davis             |
| United States | National Institutes of Health | Prefrontal cortical dysfunction in Rett syndrome  | \$396,250   | Case Western Reserve University             |
| United States | National Institutes of Health | Prefrontal corticothalamic circuits in autism   | \$178,646   | University of California, San Francisco     |
| United States | National Institutes of Health | Prenatal environmental toxicants induce neuroinflammation causing autistic behaviors                            | \$608,021   | Wadsworth Center                            |
| United States | National Institutes of Health | Prenatal Origins of Neurometabolic Consequences   | \$316,354   | University of California, Los Angeles       |
| United States | Simons Foundation             | Probing perception and sensorimotor coupling in mouse models of autism  | \$75,000    | Harvard University                          |
| United States | Simons Foundation             | Probing the development and reversibility of autism-related phenotypes in SETD5 conditional knockout mice       | \$99,730    | Institute of Science and Technology Austria |
| United States | National Institutes of Health | Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation                               | \$36,454    | University of South Carolina                |
| United States | National Institutes of Health | Project 3: Immune Environment Interaction and Neurodevelopment  | \$116,018   | University of California, Davis             |

| Funder         | Funder                                 | Project Title  | Funding     | Institution  |
|----------------|--|--|-------------|--|
| United States  | National Institutes of Health          | Project 4: Calcium Signaling Defects in Autism (Pessah/Lein)   | \$115,417   | University of California, Davis  |
| United States  | National Institutes of Health          | Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism   | \$244,566   | Seattle Children's Hospital  |
| United States  | National Institutes of Health          | Proteogenetics of Autism Spectrum Disorders  | \$583,992   | Scripps Research Institute   |
| United States  | Autism Research Institute              | Proteomic Studies of Autistic Brain  | \$25,650    | Cleveland Clinic   |
| Canada         | Ontario Brain Institute                | Province of Ontario Neurodevelopmental Disorders Network (POND)  | \$1,138,179 | Holland Bloorview Kids Rehabilitation Hospital; Hospital for Sick Children |
| United States  | Simons Foundation                      | PsychoGenics Inc.  | \$0         | PsychoGenics Inc.  |
| United States  | Simons Foundation                      | Quantification of Learning Algorithm Performance to Inputs of Variable Complexity: Implications for Emotional Intelligence in Autism Spectrum Disorder | \$15,791    | Boston Children's Hospital   |
| United States  | National Institutes of Health          | Quantitative Analysis of the Postsynaptic Inhibitory Complex In Vivo   | \$238,500   | Duke University  |
| United States  | National Institutes of Health          | Quantitative Measurements of Cortical Excitability in Neurodevelopmental Disorder  | \$197,500   | Stanford University  |
| United States  | Brain & Behavior Research Foundation   | Rapid Phenomic Interrogation of CRISPR-Cas9 Edited Mammalian Brains  | \$35,000    | Massachusetts Institute of Technology                                      |
| United States  | National Institutes of Health          | Reaching, posture, object exploration, and language in high- and low-risk infants  | \$527,883   | University of Pittsburgh   |
| Canada         | Canadian Institutes of Health Research | Reasoning differences and trajectories in children on the autism spectrum  | \$79,872    | Universite du Quebec à Montreal  |
| United States  | Brain & Behavior Research Foundation   | Rebuilding Inhibition in the Autistic Brain  | \$49,680    | Brandeis University  |
| United Kingdom | Economic and Social Research Council   | Reconceptualising word learning difficulties in children with autism using novel empirical and computational methods.                                  | \$215,913   | Lancaster University   |
| United States  | Brain & Behavior Research Foundation   | Reconceptualizing Brain Connectivity and Development in Autism   | \$35,000    | University of Miami  |
| United States  | National Institutes of Health          | Regulation of Excitatory-Inhibitory Balance by Local Translation of the Immediate Early Gene Npas4   | \$54,294    | University of California, San Diego  |
| United States  | National Institutes of Health          | Regulation of Mammalian Social Behavior by the Gtf2i Family of Proteins  | \$501,347   | Washington University in St. Louis   |
| Canada         | Canadian Institutes of Health Research | Regulation of mRNA stability and translation during human neurodevelopment   | \$114,492   | Hospital for Sick Children (Toronto)                                       |
| United States  | National Institutes of Health          | Regulation of mTOR signaling in the developing cerebral cortex as a point of convergence for multiple autism risk factors                              | \$480,000   | Scripps Research Institute - Florida                                       |
| United States  | National Institutes of Health          | Regulation of Neuroligins and Effects on Synapse Number and Function   | \$1,133,599 | National Institutes of Health  |

| Funder        | Funder                               | Project Title  | Funding   | Institution                                     |
|---------------|--------------------------------------|--|-----------|---|
| United States | National Institutes of Health        | Reproducible protocols for robust cortical neuron and astroglial differentiation                               | \$453,211 | University of California, San Diego             |
| United States | National Institutes of Health        | Rescuing Motor Deficits In SHANK3 Related Disorders  | \$178,190 | Baylor College Of Medicine                      |
| United States | Simons Foundation                    | Rescuing synaptic and circuit deficits in an Angelman syndrome mouse model                                     | \$0       | University of Arizona                           |
| United States | National Institutes of Health        | Research Project: Sensory and Multisensory Contributions to Autism   | \$347,769 | Vanderbilt University                           |
| United States | Simons Foundation                    | Restoring GABA inhibition in a Rett syndrome mouse model by tuning a kinase-regulated Cl <sup>-</sup> rheostat | \$66,839  | Yale University                                 |
| United States | National Institutes of Health        | Robust trans-synaptic labeling technologies for cell type-specific quantitation of synaptic connectivity       | \$333,000 | Salk Institute for Biological Studies           |
| United States | National Institutes of Health        | Role of 14-3-3epsilon in neurite initiation  | \$340,161 | Drexel University                               |
| United States | Autism Science Foundation            | Role of an autism-related cytokine in a genetic model of ASD   | \$25,000  | University of California, San Diego             |
| United States | Simons Foundation                    | Role of a novel PRC1 complex in neurodevelopment and ASD neurobiology  | \$225,000 | New York University School of Medicine          |
| United States | National Institutes of Health        | Role of Autism Susceptibility Gene, TAOK2 kinase, and its novel substrates in Synaptogenesis                   | \$121,022 | University of California, San Francisco         |
| United States | National Institutes of Health        | Role of Brg1 in Activity-Induced Neuronal Gene Expression and Synaptic Plasticity                              | \$365,696 | University of Texas Southwestern Medical Center |
| United States | Simons Foundation                    | Role of Caspr2 (CNTNAP2) in brain circuits-Core  | \$0       | Weizmann Institute of Science                   |
| United States | Simons Foundation                    | Role of Caspr2 (CNTNAP2) in brain circuits - Project 1   | \$0       | King's College London                           |
| United States | Simons Foundation                    | Role of GABA interneurons in a genetic model of autism   | \$0       | Yale University                                 |
| United States | Simons Foundation                    | Role of LIN28/let-7 axis in autism   | \$0       | Johns Hopkins University School of Medicine     |
| United States | National Institutes of Health        | Role of MEF2 and neural activity in cortical synaptic weakening and elimination                                | \$394,331 | University of Texas Southwestern Medical Center |
| United States | Brain & Behavior Research Foundation | Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders                     | \$15,000  | Massachusetts Institute of Technology           |
| United States | National Institutes of Health        | Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain                                 | \$674,484 | Kennedy Krieger Institute                       |
| United States | National Institutes of Health        | Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain                                 | \$163,315 | Kennedy Krieger Institute                       |
| United States | Simons Foundation                    | Role of the hippocampal CA2 region in autism   | \$125,000 | Columbia University Medical Center              |

| Funder        | Funder                                 | Project Title   | Funding     | Institution                                 |
|---------------|--|---|-------------|---|
| United States | National Institutes of Health          | Role of the intracellular signal integrator CC2D1A in the developing nervous system   | \$56,118    | George Washington University                |
| United States | Simons Foundation                      | Role of the Thalamic Reticular Nucleus in ASD   | \$0         | Massachusetts Institute of Technology       |
| United States | National Institutes of Health          | Role of UBE3A in the Central Nervous System   | \$321,269   | University of North Carolina at Chapel Hill |
| United States | National Institutes of Health          | Roles of Oxytocin and Vasopressin in Brain  | \$2,020,403 | National Institutes of Health               |
| United States | Simons Foundation                      | Roles of pro-inflammatory Th17 cells in autism  | \$124,846   | New York University                         |
| United States | National Institutes of Health          | Scalable technologies for genome engineering in hPSCs   | \$306,948   | University of California, San Diego         |
| United States | Simons Foundation                      | SCN2A mouse   | \$0         | Duke University Medical Center              |
| United States | National Institutes of Health          | Sensory contributions to autism spectrum disorders and links to social responsiveness   | \$28,234    | Vanderbilt University                       |
| United States | National Institutes of Health          | Serotonin Receptor Subtypes as Pharmacotherapeutic Targets in Autism  | \$202,500   | Hussman Institute for Autism, Inc.          |
| United States | National Institutes of Health          | Sex-specific modulation of ASD liability: Compensatory mechanisms and recurrence  | \$282,169   | Washington University in St. Louis          |
| United States | National Institutes of Health          | Sex-specific regulation of social play  | \$250,400   | Boston College                              |
| United States | National Institutes of Health          | Shank3 in Synaptic Function and Autism  | \$401,250   | Massachusetts Institute of Technology       |
| United States | National Institutes of Health          | Shared and Distinct Developmental Pathways to ADHD and Autism Spectrum Disorder   | \$82,062    | University of California, Davis             |
| Canada        | Canadian Institutes of Health Research | Sharp wave ripple (SWR) organization of hippocampal microcircuits underlying cognitive performance  | \$23,962    | Columbia University (New York)              |
| United States | National Science Foundation            | SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism | \$0         | University of Kentucky                      |
| United States | National Institutes of Health          | Signaling Pathways in Autism  | \$74,611    | University of Nebraska Medical Center       |
| United States | Brain & Behavior Research Foundation   | Signaling Pathways that Regulate Excitatory-inhibitory Balance  | \$35,000    | University of California, San Diego         |
| United States | National Institutes of Health          | Single-cell approaches to deconvolution of disease-associated signals   | \$736,293   | University of California, San Diego         |
| United States | National Institutes of Health          | SLC7A5-MTOR Regulation of Neural Development  | \$442,241   | Clemson University                          |
| United States | Simons Foundation                      | Sleep Disordered Breathing, Microparticles and Proinflammation in ASD   | \$0         | Stanford University                         |
| United States | National Science Foundation            | Social cognition for competition versus cooperation   | \$382,643   | Boston College                              |

| Funder         | Funder                                       | Project Title   | Funding     | Institution   |
|----------------|--|---|-------------|---|
| Australia      | National Health and Medical Research Council | Social functioning and autism spectrum disorder in children with neurofibromatosis type 1: A multimodal study | \$79,325    | Murdoch Childrens Research Institute                            |
| United States  | National Institutes of Health                | Somatosensory Inhibitory Dysfunction in Autism Spectrum Disorder.   | \$585,789   | Johns Hopkins University  |
| United States  | National Institutes of Health                | Spastic paraplegia, neurodegeneration and autism: possible role for AT-1/SLC33A1?                             | \$330,978   | University of Wisconsin-Madison                                 |
| United States  | Simons Foundation                            | Speech Phenotype in 16p11.2   | \$0         | Murdoch Childrens Research Institute                            |
| United States  | National Institutes of Health                | Statistical Methods for Ultrahigh-dimensional Biomedical Data   | \$292,777   | Princeton University  |
| United States  | National Institutes of Health                | Stem cell- based studies of gene-environment interactions in PTEN-associated autism                           | \$260,250   | University of California, Los Angeles                           |
| United States  | National Institutes of Health                | Striatal Glutamate Signaling and Cognition in Autism Mouse Models   | \$225,619   | University of Illinois at Chicago                               |
| Canada         | Brain Canada Foundation                      | Structural and functional networks in Autism Spectrum Disorder and Fragile X Syndrome                         | \$398,200   | Montreal Neurological Institute and Hospital, McGill University |
| United States  | Autism Science Foundation                    | Study of a potentially novel biomarker for features of ASD  | \$25,000    | Johns Hopkins University  |
| United States  | National Institutes of Health                | Synaptic pathophysiology of the 16p11.2 microdeletion mouse model   | \$531,026   | Massachusetts Institute of Technology                           |
| United States  | Autism Speaks                                | Temporal divergence of hypoconnectivity and excitotoxicity in Rett syndrome                                   | \$215,784   | Vanderbilt University   |
| Canada         | Canadian Institutes of Health Research       | Temporal recalibration in healthy controls and autism spectrum disorders                                      | \$71,885    | McGill University/Université McGill                             |
| United States  | National Institutes of Health                | Tet-mediated Epigenetic Modulation in Autism  | \$603,129   | Emory University  |
| United States  | National Institutes of Health                | Tet-mediated Epigenetic Modulation in Autism  | \$117,000   | Emory University  |
| United States  | National Institutes of Health                | Thalamic activity and structure and surface neural oscillations in autism                                     | \$182,546   | Children's Hospital of Philadelphia                             |
| United States  | National Institutes of Health                | Thalamocortical circuit defects in developmental brain disorders  | \$492,465   | University of Maryland, Baltimore                               |
| United States  | National Institutes of Health                | The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype                                 | \$703,652   | San Diego State University                                      |
| United States  | National Institutes of Health                | The Cognitive Neuroscience of Autism Spectrum Disorders   | \$1,162,902 | National Institutes of Health                                   |
| United Kingdom | Economic and Social Research Council         | The cognitive requirements of cumulative culture: experiments with typically developing and autistic people   | \$0         | University of Exeter  |
| United States  | National Institutes of Health                | The cognitive searchlight: TRN circuit dissection in health and disease                                       | \$513,366   | New York University School of Medicine                          |

| Funder         | Funder                                 | Project Title   | Funding   | Institution   |
|----------------|--|---|-----------|---|
| United Kingdom | Wellcome Trust                         | The development of neuronal circuits controlling sleep/wake behaviour in zebrafish models of autism.                              | \$0       | University College London   |
| United States  | National Institutes of Health          | The Elongation Hypothesis of Autism   | \$760,000 | University of North Carolina at Chapel Hill                           |
| United States  | National Institutes of Health          | The genomic bridge project (GBP)  | \$167,850 | Massachusetts General Hospital  |
| United States  | Simons Foundation                      | The IL-17 pathway in the rodent model of autism spectrum disorder   | \$90,000  | University of Massachusetts Medical School                            |
| United States  | National Institutes of Health          | The Impact of Pten Signaling on Neuronal Form and Function  | \$405,000 | Dartmouth College   |
| United States  | Brain & Behavior Research Foundation   | The Impact of Sleep Disturbance During Development on Autism-like Social Behavior in Voles  | \$35,000  | Portland VA Research Foundation; Oregon Health and Science University |
| United States  | Brain & Behavior Research Foundation   | The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders   | \$75,000  | University of California, San Diego                                   |
| United States  | Simons Foundation                      | The intersection between habit and anxiety in a genetic model of autism   | \$125,000 | Cold Spring Harbor Laboratory   |
| United States  | Simons Foundation                      | The Medical College of Wisconsin, Inc.  | \$79,243  | The Medical College of Wisconsin, Inc.                                |
| United States  | National Institutes of Health          | The Nature of Astrocyte Heterogeneity in RTT  | \$196,974 | Baylor College Of Medicine  |
| Canada         | Canadian Institutes of Health Research | The neural bases of emotional face processing across development in Autism Spectrum Disorder                                      | \$27,955  | Hospital for Sick Children (Toronto)                                  |
| United States  | National Institutes of Health          | The neurobiological basis of heterogeneous social and motor deficits in ASD   | \$423,920 | University of Southern California                                     |
| Canada         | Canadian Institutes of Health Research | The neurodevelopment and mental health of school-aged siblings of children with autism spectrum disorder                          | \$27,955  | Holland Bloorview Kids Rehabilitation Hospital (Toronto)              |
| United States  | National Institutes of Health          | The neurophysiology of sensory processing and multisensory integration in ASD   | \$410,019 | Syracuse University   |
| United Kingdom | Wellcome Trust                         | The pathophysiology of Autism: developmental trajectories and neuronal networks underlying pathological behaviour in mouse models | \$142,450 | Cardiff University  |
| United States  | National Institutes of Health          | The Role of BK Channels in Neuropathology of Fragile X Syndrome   | \$380,000 | Washington University in St. Louis                                    |
| United States  | Simons Foundation                      | The Role of Cation/Proton Exchanger NHE9 in Autism  | \$62,500  | University of California, San Francisco                               |
| United States  | National Institutes of Health          | The Role of Central Gain Control in Hyperacusis of Diverse Origin   | \$58,408  | State University of New York at Buffalo                               |
| United Kingdom | Medical Research Council               | The role of chromatin remodelling factors in cerebellar development and autism  | \$0       | King's College London   |
| United States  | National Institutes of Health          | The role of Foxp1-regulated signaling pathways in brain development and behavior  | \$405,000 | University of Texas Southwestern Medical Center                       |

| Funder         | Funder   | Project Title  | Funding     | Institution                                      |
|----------------|--|--|-------------|--|
| United States  | National Institutes of Health                      | The Role of Fragile X-related protein 1 in adult neurogenesis  | \$27,023    | University of Wisconsin-Madison                  |
| Canada         | Canadian Institutes of Health Research             | The role of mTOR pathway in translational regulation of synaptic plasticity, memory formation and disease.   | \$39,998    | McGill University/Université McGill              |
| United States  | Simons Foundation                                  | The role of PTCHD1 in thalamic reticular nucleus function and ASD  | \$250,000   | Massachusetts Institute of Technology            |
| United States  | Brain & Behavior Research Foundation               | The Role of Sensory Over-responsivity in the Development of Anxiety in Children With and Without Autism  | \$34,672    | Duke University Medical Center                   |
| United States  | Simons Foundation                                  | The role of striatal interneurons in social deficits and repetitive behaviors  | \$70,000    | Yale University                                  |
| Canada         | Canadian Institutes of Health Research             | The role of TAO2 in brain connectivity and Autism Spectrum Disorders   | \$49,920    | McMaster University                              |
| Australia      | National Health and Medical Research Council       | The role of the neuronal splicing factor A2BP1 in autism spectrum disorders  | \$0         | University of New South Wales                    |
| United States  | Department of Defense - Army                       | The role of the new mTOR complex, mTORC2, in autism spectrum disorders   | \$0         | Baylor College of Medicine                       |
| United States  | National Institutes of Health                      | The Social Brain in Schizophrenia and Autism Spectrum Disorders  | \$419,139   | Hartford Hospital                                |
| United States  | Brain & Behavior Research Foundation               | The Study of Homeostatic Downscaling in Psychiatric Disorders  | \$35,000    | University of Illinois at Urbana-Champaign       |
| Australia      | Australian Research Council                        | The theory of mind delays: A possible explanation for children's social problems   | \$0         | University of Queensland                         |
| United States  | National Institutes of Health                      | Tools for manipulating local protein synthesis in the brain  | \$148,500   | University of Toronto                            |
| United States  | Simons Foundation                                  | Top-down dynamics in autism  | \$210,000   | Rockefeller University                           |
| United Kingdom | Wellcome Trust                                     | Towards understanding and treatment of MeCP2-related disorders.  | \$4,008,547 | University of Edinburgh                          |
| Canada         | Canadian Institutes of Health Research             | Trajectoires developpementales des enfants sur le spectre de l'autisme : mieux comprendre pour mieux intervenir.<br>Developmental trajectories of children on the spectrum of autism: better understanding for better intervention | \$13,978    | Universite du Quebec a Montreal                  |
| Australia      | Cooperative Research Centre for Living with Autism | Trajectory study   | \$0         | Griffith University                              |
| United States  | National Institutes of Health                      | Translation, Synchrony, and Cognition  | \$379,689   | New York University                              |
| United States  | Simons Foundation                                  | Translational control by RBFox1: investigating its mechanisms and functions  | \$0         | Trinity College Dublin, The University of Dublin |
| United States  | Simons Foundation                                  | Translational dysregulation in autism pathogenesis and therapy   | \$250,000   | Massachusetts General Hospital                   |

| Funder        | Funder                                       | Project Title  | Funding   | Institution                                 |
|---------------|--|--|-----------|---|
| United States | Simons Foundation                            | Translational dysregulation of the RhoA pathway in autism  | \$250,605 | University of California, San Diego         |
| United States | National Institutes of Health                | Translational Regulation of Adult Neural Stem Cells  | \$372,646 | University of Wisconsin-Madison             |
| United States | National Institutes of Health                | Treatment of Medical Conditions among Individuals with Autism Spectrum Disorders   | \$518,777 | National Institutes of Health               |
| Canada        | Brain Canada Foundation                      | Treatment strategies for Autism Spectrum Disorders and Fragile-X Syndrome using mouse models, via translational control modulators | \$197,284 | McGill University                           |
| Canada        | Canadian Institutes of Health Research       | Typical and atypical development of frontal lobe systems and the maturation of social cognitive function.                          | \$124,053 | Hospital for Sick Children (Toronto)        |
| United States | Simons Foundation                            | Uncovering the impact of 16p11.2del on neurons mediating motivated behavior  | \$249,629 | University of Pennsylvania                  |
| United States | Autism Science Foundation                    | Undergraduate Research Award   | \$3,000   | Yale University                             |
| United States | Autism Science Foundation                    | Undergraduate Research Award   | \$3,000   | Children's Hospital of Philadelphia         |
| Australia     | National Health and Medical Research Council | Understanding autistic spectrum disorder traits in children with attention deficit hyperactivity disorder                          | \$231,772 | Monash University                           |
| United States | Simons Foundation                            | Understanding brain disorders related to the 15q11.2 chromosomal region  | \$250,000 | Johns Hopkins University School of Medicine |
| United States | Simons Foundation                            | Understanding somatosensory deficits in Autism Spectrum Disorder   | \$125,000 | Harvard University                          |
| United States | National Institutes of Health                | Understanding the biology of language impairment through whole genome sequencing   | \$628,737 | University of Iowa                          |
| Canada        | Canadian Institutes of Health Research       | Understanding the function of DIXDC1 in normal and abnormal brain development  | \$109,913 | McMaster University                         |
| United States | National Institutes of Health                | Understanding the Pathogenic Mechanisms of Rett Syndrome   | \$343,116 | University of Pennsylvania                  |
| United States | National Institutes of Health                | Understanding the Role of EPAC2 in Cognitive Function  | \$48,576  | Northwestern University                     |
| United States | Autism Research Institute                    | Unique Mitochondrial Dysfunction in Autism Spectrum Disorder   | \$20,000  | University of Arkansas                      |
| United States | National Science Foundation                  | UNS: GARDE: Research to Quantify the Health and Development of Children with Disabilities Around the Clock                         | \$0       | Kansas State University                     |
| United States | National Institutes of Health                | Verbal/non-verbal asynchrony in adolescents with high-functioning Autism   | \$379,851 | Emerson College                             |
| United States | National Institutes of Health                | Visual Circuit Regression and Its Rescue in RTT Mouse Models   | \$564,049 | Boston Children's Hospital                  |

| Funder        | Funder            | Project Title  | Funding   | Institution                                 |
|---------------|-------------------|--|-----------|---|
| United States | Simons Foundation | Visualizing neural circuits of social sensory processing | \$125,000 | University of North Carolina at Chapel Hill |

