

Funder	Project Title	Funding	Strategic Plan Objective	Institution
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	2.1	Yale University
Brain & Behavior Research Foundation	Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia	\$14,931	2.1	Yale University
National Institutes of Health	Neurobiology of Autism With Macrocephaly	\$614,548	2.1	Yale University
Simons Foundation	Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$62,500	2.1	Yale University
Simons Foundation	Restoring GABA inhibition in a Rett syndrome mouse model by tuning a kinase-regulated Cl <sup>-</sup> rheostat	\$66,839	2.1	Yale University
Simons Foundation	The role of striatal interneurons in social deficits and repetitive behaviors	\$70,000	2.CC	Yale University
Simons Foundation	Role of GABA interneurons in a genetic model of autism	\$0	2.1	Yale University
National Institutes of Health	Neural Mechanisms for Social Interactions and Eye Contact in ASD	\$713,408	2.1	Yale University
National Institutes of Health	Neural Correlates of Biological Motion Perception in Children with ASD	\$59,410	2.3	Yale University
National Institutes of Health	Functional Genomics of Human Brain Development	\$266,096	2.1	Yale University
National Institutes of Health	2/2 Somatic mosaicism and autism spectrum disorder	\$694,098	2.1	Yale University
National Institutes of Health	2/2 Somatic mosaicism and autism spectrum disorder	\$72,260	2.1	Yale University
National Institutes of Health	Functional Analysis of Rare Variants in Genes Associated with Autism	\$147,905	2.1	Yale University
National Institutes of Health	Astrocytes contribution to tuberous sclerosis pathology	\$249,750	2.1	Yale University
National Institutes of Health	Components of Emotional Processing in Toddlers with ASD	\$669,551	2.1	Yale University
National Institutes of Health	Functional Genomics of Human Brain Development	\$1,621,706	2.1	Yale University
Autism Science Foundation	Undergraduate Research Award	\$3,000	2.2	Yale University
National Institutes of Health	Environmental Influences on Neurodevelopmental Outcome in Infants Born Very Preterm	\$1,542,929	2.3	Women & Infants Hospital
Brain & Behavior Research Foundation	Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures	\$35,000	2.1	Whitehead Institute for Biomedical Research
Simons Foundation	Role of Caspr2 (CNTNAP2) in brain circuits-Core	\$0	2.1	Weizmann Institute of Science

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Department of Defense - Army	IMPLICIT LEARNING ABILITIES PREDICT TREATMENT RESPONSE IN AUTISM SPECTRUM DISORDERS	\$0	2.1	Weill Cornell Medical College
National Institutes of Health	Functional architecture of a face processing area in the common marmoset	\$48,576	2.1	Weill Cornell Medical College
Simons Foundation	Behavioral effects of fever and other illness on young children with autism –Core	\$78,882	2.Core/Other	Weill Cornell Medical College
Brain & Behavior Research Foundation	Molecular Dimorphism in the Locus Coeruleus May Mediate Sex-specific Differences in Psychiatric Disease Risk	\$25,000	2.CC	Washington University in St. Louis
National Institutes of Health	An fMRI investigation of propagated intrinsic activity in early development and autism	\$29,911	2.1	Washington University in St. Louis
National Institutes of Health	The Role of BK Channels in Neuropathology of Fragile X Syndrome	\$380,000	2.1	Washington University in St. Louis
National Institutes of Health	Regulation of Mammalian Social Behavior by the Gtf2i Family of Proteins	\$501,347	2.1	Washington University in St. Louis
National Institutes of Health	Brain Microstructure & Behavior in Newly-Diagnosed Toddlers/Preschoolers with ASD	\$186,879	2.1	Washington University in St. Louis
National Institutes of Health	Sex-specific modulation of ASD liability: Compensatory mechanisms and recurrence	\$282,169	2.CC	Washington University in St. Louis
National Institutes of Health	Predicting Preschool Psychopathology with Brain Connectivity in Preterm Neonates	\$169,998	2.1	Washington University in St. Louis
National Institutes of Health	Imaging Brain Function in Children with Autism Spectrum Disorders with Diffuse Optical Tomography	\$141,178	2.1	Washington University in St. Louis
National Institutes of Health	Mechanisms of Brain Dysfunction in Tuberous Sclerosis	\$333,594	2.1	Washington University in St. Louis
National Institutes of Health	Prenatal environmental toxicants induce neuroinflammation causing autistic behaviors	\$608,021	2.1	Wadsworth Center
Autism Speaks	CYFIP function/s in brain: insights into Autism Spectrum Disorders	\$117,500	2.1	Vlaams Instituut voor Biotechnologie
National Institutes of Health	Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation	\$396,400	2.2	Virginia Polytechnic Institute and State University
National Institutes of Health	Foxp2 regulation of sex specific transcriptional pathways and brain development	\$249,000	2.CC	Virginia Polytechnic Institute and State University
National Institutes of Health	mTOR modulation of myelination	\$179,658	2.1	Vanderbilt University Medical Center
National Institutes of Health	Autism Spectrum Disorders and Depression: Shared Mechanisms in Brain and Behavior	\$160,115	2.2	Vanderbilt University Medical Center
National Institutes of Health	Peripersonal Space Representation as a Basis for Social Deficits in Autism and Schizophrenia Spectrum Disorders	\$237,000	2.1	Vanderbilt University Medical Center

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National Institutes of Health	GABA(A) Receptor Assembly/Trafficking/Function and Epilepsy Missense Mutations	\$255,937	2.2	Vanderbilt University Medical Center
National Institutes of Health	Neural networks for attention to internal and external sensory cues in ASD	\$394,652	2.1	Vanderbilt University Medical Center
Autism Speaks	Nonsocial Interests and Reward Processing in Autism Spectrum Disorders	\$30,000	2.1	Vanderbilt University
Autism Speaks	Behavioral and Neural Variability in Autism Spectrum Disorder	\$0	2.1	Vanderbilt University
Autism Speaks	Temporal divergence of hypoconnectivity and excitotoxicity in Rett syndrome	\$215,784	2.1	Vanderbilt University
National Institutes of Health	GABA(A) Receptor Assembly/Trafficking/Function and Epilepsy Missense Mutations	\$51,188	2.2	Vanderbilt University
National Institutes of Health	Genetic and Developmental Analyses of Fragile X Mental Retardation Protein	\$383,322	2.1	Vanderbilt University
National Institutes of Health	Sensory contributions to autism spectrum disorders and links to social responsiveness	\$28,234	2.1	Vanderbilt University
National Institutes of Health	mTOR modulation of myelination	\$1	2.1	Vanderbilt University
National Institutes of Health	FMRP and Pumilio co-regulate synaptogenesis by controlling Neuroglian expression	\$27,936	2.1	Vanderbilt University
National Institutes of Health	Research Project: Sensory and Multisensory Contributions to Autism	\$347,769	2.1	Vanderbilt University
National Institutes of Health	Endocannabinoids in social and repetitive behavioral domains	\$143,746	2.1	Vanderbilt University
Simons Foundation	Measuring the size of face regions in female and males	\$58,035	2.CC	University of York
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	2.1	University of Wisconsin-Madison
National Institutes of Health	Spastic paraplegia, neurodegeneration and autism: possible role for AT-1/SLC33A1?	\$330,978	2.1	University of Wisconsin-Madison
National Institutes of Health	Translational Regulation of Adult Neural Stem Cells	\$372,646	2.1	University of Wisconsin-Madison
National Institutes of Health	Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders	\$533,529	2.1	University of Wisconsin-Madison
National Institutes of Health	Coordinate actions between methyl-CpG binding proteins in neuronal development	\$191,250	2.1	University of Wisconsin-Madison
National Institutes of Health	The Role of Fragile X-related protein 1 in adult neurogenesis	\$27,023	2.2	University of Wisconsin-Madison

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National Institutes of Health	Executive Function in Children with Typical and Atypical Language Abilities	\$564,177	2.1	University of Wisconsin-Madison
National Institutes of Health	Atypical Late Neurodevelopment in Autism: A Longitudinal Clinical Phenotype and Multimodal Brain Imaging Study	\$772,038	2.3	University of Wisconsin-Madison
National Science Foundation	Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$0	2.1	University of Washington
National Institutes of Health	Inhibitory dysfunction in autism	\$552,541	2.1	University of Washington
National Institutes of Health	Network Abnormalities in Autism	\$77,313	2.1	University of Vermont
National Institutes of Health	Multiscale Genetic Connectivity of Primate Social Circuits	\$643,674	2.1	University of Utah
National Institutes of Health	Brain Network Development in Normal and Autistic Children	\$187,164	2.1	University of Utah
National Science Foundation	CAREER: Statistical models and classification of time-varying shape	\$0	2.Core/Other	University of Utah
Autism Speaks	Elucidating synapse-specific defects underlying autism	\$30,400	2.1	University of Utah
Brain & Behavior Research Foundation	a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$19,748	2.1	University of Tuebingen
National Institutes of Health	Tools for manipulating local protein synthesis in the brain	\$148,500	2.1	University of Toronto
Autism Science Foundation	Genetics Behind Brain Connectivity in ASD	\$0	2.1	University of Texas Southwestern Medical Center
Autism Science Foundation	Genetic mutations in chromosome 16 and their role in autism	\$25,000	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$394,331	2.1	University of Texas Southwestern Medical Center
Simons Foundation	Defining the Translational Landscape in Mouse Models of Autism - Project 1	\$68,750	2.1	University of Texas Southwestern Medical Center
Simons Foundation	Foxp1 orchestration of neuronal function in the striatum	\$73,345	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	Mechanisms underlying the Cerebellar Contribution to Autism in Mouse Models of Tuberous Sclerosis Complex	\$190,458	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	Functional dissection of mammalian vocal communication	\$343,454	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	Identification of human-relevant CLOCK molecular signaling pathways	\$242,625	2.2	University of Texas Southwestern Medical Center
National Institutes of Health	The role of Foxp1-regulated signaling pathways in brain development and behavior	\$405,000	2.1	University of Texas Southwestern Medical Center

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National Institutes of Health	Bidirectional Tyrosine Kinase Signaling	\$523,695	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	Role of Brg1 in Activity-Induced Neuronal Gene Expression and Synaptic Plasticity	\$365,696	2.1	University of Texas Southwestern Medical Center
National Institutes of Health	Molecular mechanisms of the synaptic organizer alpha-neurexin	\$379,844	2.1	University of Texas Medical Branch at Galveston
Department of Defense - Army	Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders	\$0	2.1	University of Southern California
Brain & Behavior Research Foundation	Abnormal connectivity in autism	\$14,881	2.1	University of Southern California
National Institutes of Health	The neurobiological basis of heterogeneous social and motor deficits in ASD	\$423,920	2.1	University of Southern California
National Institutes of Health	Biology of Non-Coding RNAs Associated with Psychiatric Disorders	\$416,850	2.1	University of Southern California
Autism Research Institute	A Quantitative Study of Pyramidal Cells and Interneurons in the Cerebral Cortex	\$20,000	2.1	University of South Carolina, Greenville
National Institutes of Health	Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation	\$36,454	2.1	University of South Carolina
National Institutes of Health	Emergence, Stability and Predictors of Anxiety in Fragile X Syndrome	\$740,752	2.2	University of South Carolina
National Institutes of Health	Emergence and Stability of Autism in Fragile X Syndrome	\$714,793	2.3	University of South Carolina
Autism Science Foundation	Mechanisms of sensory processing in ASD	\$25,000	2.1	University of Rochester
Simons Foundation	Functional and behavioral analysis of zebrafish ASD models	\$74,975	2.1	University of Queensland
Brain & Behavior Research Foundation	Interpersonal Neural Coordination During Social Interaction in Children with Autism Spectrum Disorders	\$34,970	2.1	University of Pittsburgh
National Institutes of Health	Reaching, posture, object exploration, and language in high- and low-risk infants	\$527,883	2.3	University of Pittsburgh
Simons Foundation	Uncovering the impact of 16p11.2del on neurons mediating motivated behavior	\$249,629	2.CC	University of Pennsylvania
National Institutes of Health	Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$138,243	2.1	University of Pennsylvania
National Institutes of Health	Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$457,126	2.1	University of Pennsylvania
National Institutes of Health	Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$154,314	2.CC	University of Pennsylvania
National Institutes of Health	Magnetoencephalographic studies of lexical processing and abstraction in autism	\$310,373	2.1	University of Pennsylvania

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National Institutes of Health	Early Life Seizures Disrupt Critical Period Plasticity	\$411,265	2.2	University of Pennsylvania
National Institutes of Health	Understanding the Pathogenic Mechanisms of Rett Syndrome	\$343,116	2.1	University of Pennsylvania
Autism Speaks	Neurobiological foundations of self-conscious emotion understanding in adolescents with ASD	\$30,000	2.1	University of Oregon
National Institutes of Health	Molecular mechanisms of electrical synapse formation in vivo	\$249,000	2.1	University of Oregon
Autism Speaks	Anti-Neuronal Autoantibodies against Bacterial Polysaccharides in Autism Spectrum Disorders	\$0	2.1	University of Oklahoma Health Sciences Center
Brain & Behavior Research Foundation	Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$0	2.1	University of North Carolina at Chapel Hill
Autism Speaks	Neural Synchrony and Plasticity in Children with Autism	\$0	2.1	University of North Carolina at Chapel Hill
Department of Defense - Army	PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	2.2	University of North Carolina at Chapel Hill
National Institutes of Health	Role of UBE3A in the Central Nervous System	\$321,269	2.1	University of North Carolina at Chapel Hill
Autism Speaks	Cell-type and circuit-specific functional deficits in cortex from gene disruptions linked to autism	\$0	2.1	University of North Carolina at Chapel Hill
Simons Foundation	Identification of shared transcriptional profiles with three high-confidence autism mouse models	\$100,000	2.1	University of North Carolina at Chapel Hill
National Institutes of Health	Early Social Communication Environment and Brain Development in Infants at Risk for Autism	\$88,597	2.1	University of North Carolina at Chapel Hill
Simons Foundation	Correcting excitatory-inhibitory imbalance in autism	\$112,500	2.1	University of North Carolina at Chapel Hill
National Institutes of Health	A Longitudinal MRI Study of Infants at Risk for Autism	\$2,434,558	2.3	University of North Carolina at Chapel Hill
Autism Speaks	Evaluating the association between parental broader autism phenotype and child ASD phenotype	\$30,400	2.1	University of North Carolina at Chapel Hill
National Institutes of Health	The Elongation Hypothesis of Autism	\$760,000	2.1	University of North Carolina at Chapel Hill
Simons Foundation	Visualizing neural circuits of social sensory processing	\$125,000	2.1	University of North Carolina at Chapel Hill
National Institutes of Health	Neural Circuits That Regulate Social Motivation in Autism	\$148,379	2.1	University of North Carolina at Chapel Hill

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Department of Defense - Army	Mechanisms of synaptic alterations in a neuroinflammation model of autism	\$0	2.1	University of Nebraska Medical Center
National Institutes of Health	Signaling Pathways in Autism	\$74,611	2.1	University of Nebraska Medical Center
National Institutes of Health	Maternal Immune Activation in a Genetic Mouse Model of ASD	\$375,316	2.1	University of Nebraska Medical Center
National Institutes of Health	Mechanisms of Motor Skill Learning in the Fragile X Mouse Model	\$305,056	2.1	University of Nebraska Medical Center
Autism Science Foundation	Brain Somatic Mosaicism at ASD-Associated Loci	\$0	2.1	University of Michigan
National Institutes of Health	Novel non-cell autonomous mechanisms of callosal dysgenesis in CHARGE syndrome	\$34,952	2.Core/Other	University of Michigan
Brain & Behavior Research Foundation	Reconceptualizing Brain Connectivity and Development in Autism	\$35,000	2.1	University of Miami
National Institutes of Health	Cognitive and Neural Flexibility in Autism	\$474,322	2.1	University of Miami
National Institutes of Health	Infant Vocal Communication: Typical Development and Autism Risk	\$565,736	2.3	University of Memphis
Simons Foundation	Defining the Translational Landscape in Mouse Models of Autism - Core	\$68,750	2.1	University of Massachusetts Medical School
Simons Foundation	The IL-17 pathway in the rodent model of autism spectrum disorder	\$90,000	2.1	University of Massachusetts Medical School
National Institutes of Health	Functional analysis of Neuroligin-Neurexin interactions in synaptic transmission	\$366,406	2.1	University of Massachusetts Medical School
Department of Defense - Army	BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$0	2.1	University of Maryland, College Park
National Institutes of Health	Brain Network Dynamics Contributing to Atypical Social Interaction in Autism	\$523,573	2.1	University of Maryland, College Park
Simons Foundation	Exploring Sex Differences in ASD via the NRXN1 KO Rat	\$75,000	2.CC	University of Maryland, College Park
National Institutes of Health	Thalamocortical circuit defects in developmental brain disorders	\$492,465	2.1	University of Maryland, Baltimore
Brain & Behavior Research Foundation	Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	\$0	2.1	University of Manitoba
National Science Foundation	BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	2.1	University of Louisville
National Science Foundation	SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	2.1	University of Kentucky
National Institutes of Health	Determination of the Epigenetic Regulation of Gene Transcription by MECP2 in Neurons	\$30,741	2.1	University of Kentucky

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National Institutes of Health	Understanding the biology of language impairment through whole genome sequencing	\$628,737	2.1	University of Iowa
Brain & Behavior Research Foundation	The Study of Homeostatic Downscaling in Psychiatric Disorders	\$35,000	2.1	University of Illinois at Urbana-Champaign
National Institutes of Health	BPA, Cortical Development and Gene Expression: Implications for Autism	\$236,192	2.1	University of Illinois at Urbana-Champaign
National Institutes of Health	A mouse model for AUTS2-linked neurodevelopmental disorders	\$228,838	2.1	University of Illinois at Urbana-Champaign
National Institutes of Health	Striatal Glutamate Signaling and Cognition in Autism Mouse Models	\$225,619	2.1	University of Illinois at Chicago
National Institutes of Health	BDNF regulation of the cortical neuron transcriptome	\$77,000	2.1	University of Colorado Denver
National Institutes of Health	Cortical Circuit Dysfunction in Fragile X Syndrome	\$339,738	2.1	University of Colorado Denver
National Institutes of Health	Abnormal Cerebellar Physiology and Development in the Autistic Brain	\$43,576	2.1	University of Chicago
Simons Foundation	CHD8 and beta-catenin signaling in autism	\$62,500	2.1	University of Chicago
Simons Foundation	BAZ1B Haploinsufficiency and the Neuro-phenotypes of Williams Syndrome	\$0	2.1	University of California, Santa Barbara
Autism Speaks	Dissecting the 16p11.2 CNV endophenotype in induced pluripotent stem cells	\$0	2.1	University of California, San Francisco
Simons Foundation	Delineating the role of Ras/MAPK signaling in 16p11.2 phenotypes	\$250,000	2.1	University of California, San Francisco
Simons Foundation	Electrophysiological consequences of SCN2A mutations found in ASD	\$0	2.1	University of California, San Francisco
Simons Foundation	In vivo approach to screen ASD allele functions in cortical interneurons	\$62,500	2.1	University of California, San Francisco
Simons Foundation	Mechanisms that Connect Autism with Homeostatic Synaptic Plasticity	\$125,000	2.1	University of California, San Francisco
Simons Foundation	Linking circuit dynamics and behavior in a rat model of autism	\$39,613	2.1	University of California, San Francisco
Simons Foundation	Behavioral effects of fever and other illness on young children with autism - Project 1	\$90,000	2.Core/Other	University of California, San Francisco
Simons Foundation	Exploring the Intersection of Autism and Homeostatic Synaptic Plasticity	\$0	2.1	University of California, San Francisco
Simons Foundation	Do VIP interneurons drive abnormal prefrontal circuit function in autism?	\$75,000	2.1	University of California, San Francisco
Simons Foundation	The Role of Cation/Proton Exchanger NHE9 in Autism	\$62,500	2.1	University of California, San Francisco
Simons Foundation	A gene-driven systems approach to identifying autism pathology	\$749,918	2.1	University of California, San Francisco

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National Institutes of Health	Prefrontal corticothalamic circuits in autism	\$178,646	2.1	University of California, San Francisco
National Institutes of Health	Role of Autism Susceptibility Gene, TAOK2 kinase, and its novel substrates in Synaptogenesis	\$121,022	2.1	University of California, San Francisco
National Institutes of Health	Genetic models for social attachment deficits in psychiatric illness	\$184,131	2.1	University of California, San Francisco
Brain & Behavior Research Foundation	The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders	\$75,000	2.1	University of California, San Diego
Brain & Behavior Research Foundation	Signaling Pathways that Regulate Excitatory-inhibitory Balance	\$35,000	2.1	University of California, San Diego
Simons Foundation	Illuminating the role of glia in a zebrafish model of Rett syndrome	\$125,000	2.1	University of California, San Diego
National Institutes of Health	Genomics Core	\$109,153	2.Core/Other	University of California, San Diego
National Institutes of Health	Single-cell approaches to deconvolution of disease-associated signals	\$736,293	2.Core/Other	University of California, San Diego
National Institutes of Health	High content assays for cellular and synaptic phenotypes	\$421,623	2.Core/Other	University of California, San Diego
National Institutes of Health	Reproducible protocols for robust cortical neuron and astroglial differentiation	\$453,211	2.Core/Other	University of California, San Diego
National Institutes of Health	Regulation of Excitatory-Inhibitory Balance by Local Translation of the Immediate Early Gene Npas4	\$54,294	2.Core/Other	University of California, San Diego
National Institutes of Health	Scalable technologies for genome engineering in iPSCs	\$306,948	2.1	University of California, San Diego
Autism Science Foundation	Role of an autism-related cytokine in a genetic model of ASD	\$25,000	2.1	University of California, San Diego
National Institutes of Health	Evaluating the effect of splicing mutations on isoform networks in autism	\$420,427	2.1	University of California, San Diego
Simons Foundation	Translational dysregulation of the RhoA pathway in autism	\$250,605	2.1	University of California, San Diego
National Institutes of Health	A computational framework for predicting the impact of mutations in autism	\$431,352	2.1	University of California, San Diego
National Institutes of Health	Chromosomal Boundary Alterations Driving Transcriptional Dysregulation in Brain Disorders	\$492,319	2.1	University of California, San Diego
Autism Speaks	Identification and validation of genetic variants which cause the Autism Macrocephaly subphenotype	\$0	2.1	University of California, Los Angeles
National Institutes of Health	Linking Defects in Cortical Network Activity with Altered Sensory Perception in Fragile X Mice	\$35,845	2.1	University of California, Los Angeles

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National Institutes of Health	Stem cell- based studies of gene-environment interactions in PTEN-associated autism	\$260,250	2.1	University of California, Los Angeles
National Institutes of Health	Prenatal Origins of Neurometabolic Consequences	\$316,354	2.1	University of California, Los Angeles
Simons Foundation	Parameterizing Neural Habituation in ASD with Sensory Overresponsivity	\$124,973	2.1	University of California, Los Angeles
Simons Foundation	Linking cortical circuit dysfunction and abnormal behavior in genetic mouse models of autism	\$0	2.1	University of California, Los Angeles
National Institutes of Health	Optogenetic treatment of social behavior in autism	\$395,996	2.1	University of California, Los Angeles
Simons Foundation	Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$0	2.1	University of California, Los Angeles
National Institutes of Health	ACE Center: Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$188,264	2.1	University of California, Los Angeles
National Institutes of Health	ACE Center: Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$251,358	2.1	University of California, Los Angeles
National Institutes of Health	Formation and Function of Circuitry for Vocal Learning	\$361,456	2.1	University of California, Los Angeles
National Institutes of Health	Loss and rescue of endocannabinoid-dependent LTP and memory in Fragile-X model mice	\$460,044	2.1	University of California, Irvine
National Institutes of Health	Language Development in Fragile X Syndrome	\$498,095	2.1	University of California, Davis
Autism Speaks	Alterations of the human brain structural connectome in preschool aged children with ASD	\$30,000	2.1	University of California, Davis
National Institutes of Health	Project 4: Calcium Signaling Defects in Autism (Pessah/Lein)	\$115,417	2.1	University of California, Davis
National Institutes of Health	Pre-adolescent and Late-adolescent Follow-up of the CHARGE Study Children	\$1,569,427	2.3	University of California, Davis
National Institutes of Health	Immune regulation and neurodevelopmental disorders	\$235,500	2.1	University of California, Davis
National Institutes of Health	Predictors of Cognitive Development in Autism Spectrum Disorder	\$510,456	2.3	University of California, Davis
Simons Foundation	Immune signaling in the developing brain in mouse models of ASD	\$200,000	2.1	University of California, Davis
National Institutes of Health	Chandellier interneurons and the excitation/inhibition balance in the human prefrontal cortex in autism	\$384,979	2.1	University of California, Davis

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National Institutes of Health	Longitudinal Investigation of Social-Communication and Attention Processes in School-Aged Children at Genetic Risk for Autism	\$723,224	2.3	University of California, Davis
National Institutes of Health	Project 3: Immune Environment Interaction and Neurodevelopment	\$116,018	2.1	University of California, Davis
National Institutes of Health	Environmental Influence on Infant Microbiome Development and ASD Symptoms	\$699,660	2.Core/Other	University of California, Davis
National Institutes of Health	Genotype-Phenotype Relationships in Fragile X Families	\$547,472	2.1	University of California, Davis
National Institutes of Health	Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder	\$670,458	2.3	University of California, Davis
National Institutes of Health	Neurodevelopment of cognitive control in autism: adolescence to young adulthood	\$702,174	2.3	University of California, Davis
National Institutes of Health	Shared and Distinct Developmental Pathways to ADHD and Autism Spectrum Disorder	\$82,062	2.2	University of California, Davis
National Institutes of Health	Detecting the Transfer of Maternal Antibodies into the Fetal Rhesus Monkey Brain	\$195,729	2.1	University of California, Davis
National Institutes of Health	Neural Phenotypes of Females with Autism Spectrum Disorder	\$696,633	2.CC	University of California, Davis
National Institutes of Health	Characterization of Oxytocin Receptors in Autism Spectrum Disorder	\$196,250	2.1	University of California, Davis
National Institutes of Health	Cell-specific molecular mechanisms underlying brain pathology in ASD	\$157,000	2.1	University of California, Davis
National Institutes of Health	Mechanisms underlying word learning in fragile X syndrome and nonsyndromic ASD	\$156,917	2.1	University of California, Davis
Simons Foundation	How do autism-related mutations affect basal ganglia function?	\$62,500	2.1	University of California, Berkeley
Simons Foundation	Comparison of cortical circuit dysfunction in ASD model mice	\$125,000	2.1	University of California, Berkeley
Simons Foundation	An investigation of inductive learning in autism	\$0	2.1	University of California, Berkeley
Autism Research Institute	Unique Mitochondrial Dysfunction in Autism Spectrum Disorder	\$20,000	2.1	University of Arkansas
Simons Foundation	Rescuing synaptic and circuit deficits in an Angelman syndrome mouse model	\$0	2.1	University of Arizona
Simons Foundation	MAGEL2, a candidate gene for autism and Prader-Willi syndrome	\$53,753	2.1	University of Alberta
National Institutes of Health	Molecular causes of cognitive and autistic disabilities	\$520,996	2.1	Tufts University Boston

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National Institutes of Health	Deficits in KCC2 activity and the pathophysiology of Autism spectrum disorders	\$206,250	2.1	Tufts University Boston
Simons Foundation	Translational control by RBFOX1: investigating its mechanisms and functions	\$0	2.1	Trinity College Dublin, The University of Dublin
Simons Foundation	The Medical College of Wisconsin, Inc.	\$79,243	2.1	The Medical College of Wisconsin, Inc.
Autism Speaks	Monitoring Treatment-Induced Neuroanatomical Changes in a Mouse Model of Rett Syndrome	\$30,000	2.1	The Hospital for Sick Children
Simons Foundation	Brain imaging of treatment response	\$124,334	2.1	The Hospital for Sick Children
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	2.1	The Feinstein Institute for Medical Research
Simons Foundation	Mouse Model of Dup15q Syndrome	\$0	2.1	Texas AgriLife Research
National Science Foundation	Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	2.1	TERC Inc
National Institutes of Health	The neurophysiology of sensory processing and multisensory integration in ASD	\$410,019	2.1	Syracuse University
Autism Speaks	Folate receptor autoimmunity in Autism Spectrum Disorders	\$0	2.1	State University of New York Downstate Medical Center
Department of Defense - Army	IMAGING DEPRESSION IN ADULTS WITH ASD	\$0	2.2	State University of New York at Stony Brook
National Institutes of Health	Optimizing Prediction of Social Deficits in Autism Spectrum Disorders	\$428,200	2.1	State University of New York at Stony Brook
National Institutes of Health	The Role of Central Gain Control in Hyperacusis of Diverse Origin	\$58,408	2.1	State University of New York at Buffalo
Brain & Behavior Research Foundation	Interrogating Synaptic Transmission in Human Neurons	\$17,500	2.1	Stanford University
Brain & Behavior Research Foundation	Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry	\$35,000	2.CC	Stanford University
National Institutes of Health	Brain Systems Supporting Learning and Memory in Children with Autism	\$166,338	2.1	Stanford University
National Institutes of Health	Characterizing the CHD8 Complex to Determine its Role in Autism Spectrum Disorder	\$43,576	2.1	Stanford University
National Institutes of Health	Brain Systems Underlying Episodic Memory for Social Stimuli in Childhood Autism	\$123,112	2.1	Stanford University
National Institutes of Health	Decoding Neural Systems Underlying Affective Prosody in Children with Autism	\$172,398	2.1	Stanford University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Chromatin remodeling in autism	\$250,000	2.1	Stanford University
Simons Foundation	Sleep Disordered Breathing, Microparticles and Proinflammation in ASD	\$0	2.2	Stanford University
Simons Foundation	Neurobiology of Rai1, a critical gene for syndromic ASDs	\$175,000	2.1	Stanford University
National Institutes of Health	GABRB3 and Placental Vulnerability in ASD	\$580,565	2.1	Stanford University
National Institutes of Health	Induced neuronal cells: A novel tool to study neuropsychiatric diseases	\$615,259	2.1	Stanford University
National Institutes of Health	Effects of Social Gaze Training on Brain and Behavior in Fragile X Syndrome	\$353,914	2.1	Stanford University
National Institutes of Health	Phenotyping Astrocytes in Human Neurodevelopmental Disorders	\$386,463	2.1	Stanford University
Simons Foundation	Neural mechanisms of social reward in mouse models of autism	\$249,994	2.1	Stanford University
Simons Foundation	Neurologin function in the prefrontal cortex and autism pathogenesis	\$250,000	2.1	Stanford University
Simons Foundation	Decoding Affective Prosody and Communication Circuits in Autism	\$287,870	2.1	Stanford University
National Institutes of Health	GABAergic Neurophysiology in Autism Spectrum Disorder	\$195,048	2.1	Stanford University
National Institutes of Health	Gaining insight into psychiatric disease by engineering piece by piece the human brain in vitro.	\$489,075	2.1	Stanford University
National Institutes of Health	Quantitative Measurements of Cortical Excitability in Neurodevelopmental Disorder	\$197,500	2.1	Stanford University
National Institutes of Health	Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$244,566	2.1	Seattle Children's Hospital
National Institutes of Health	Eyeblink conditioning in school-aged children with ASD	\$497,699	2.1	Seattle Children's Hospital
National Institutes of Health	Neural Correlates of Biological Motion Perception in Children with ASD	\$117,544	2.3	Seattle Children's Hospital
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	2.1	Scripps Research Institute - Florida
National Institutes of Health	Impact of SynGAP1 Mutations on Synapse Maturation and Cognitive Development	\$614,568	2.1	Scripps Research Institute - Florida
National Institutes of Health	Development of a whole-brain cellular mapping approach in a genetic model of autism and intellectual disability	\$269,000	2.1	Scripps Research Institute - Florida
National Institutes of Health	Neural basis underlying autistic behaviors	\$288,000	2.1	Scripps Research Institute - Florida
National Institutes of Health	Proteogenetics of Autism Spectrum Disorders	\$583,992	2.1	Scripps Research Institute

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Simons Foundation	Impact of Pten mutations: brain growth trajectory and scaling of cell types	\$0	2.1	Scripps Research Institute
National Institutes of Health	Heparan sulfate in neurophysiology and neurological disorders	\$425,746	2.1	Sanford Burnham Prebys Medical Discovery Institute
National Institutes of Health	The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype	\$703,652	2.3	San Diego State University
National Institutes of Health	Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder	\$531,432	2.3	San Diego State University
National Institutes of Health	Integrity and Dynamic Processing Efficiency of Networks in ASD	\$620,386	2.1	San Diego State University
National Institutes of Health	Robust trans-synaptic labeling technologies for cell type-specific quantitation of synaptic connectivity	\$333,000	2.Core/Other	Salk Institute for Biological Studies
National Institutes of Health	Dissecting neural mechanisms integrating multiple inputs in <i>C. elegans</i>	\$485,000	2.1	Salk Institute for Biological Studies
National Institutes of Health	Endoplasmic Reticulum Stress as a Novel Mechanism of Synaptic Dysfunction in Autism-Associated NLGN3 R451C Human Neurons	\$37,840	2.1	Rutgers Robert Wood Johnson Medical School
Simons Foundation	Top-down dynamics in autism	\$210,000	2.1	Rockefeller University
National Institutes of Health	Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease	\$824,579	2.2	Rockefeller University
National Institutes of Health	Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease	\$220,350	2.2	Rockefeller University
National Institutes of Health	Akt-mTOR Pathway Impact on Neural Stem Cell Fates	\$380,133	2.1	Richard Stockton College of New Jersey
Simons Foundation	PsychoGenics Inc.	\$0	2.1	PsychoGenics Inc.
National Institutes of Health	Statistical Methods for Ultrahigh-dimensional Biomedical Data	\$292,777	2.Core/Other	Princeton University
National Institutes of Health	Connectivity of the Posterior Cerebellum	\$40,176	2.1	Princeton University
Simons Foundation	Gender and temporoparietal network interactions in autism	\$70,000	2.CC	Princeton University
National Institutes of Health	Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	2.1	Princeton University
Brain & Behavior Research Foundation	The Impact of Sleep Disturbance During Development on Autism-like Social Behavior in Voles	\$35,000	2.2	Portland VA Research Foundation; Oregon Health and Science University
Brain & Behavior Research Foundation	A Massively Parallel Approach to Functional Testing of PTEN Mutations	\$34,710	2.1	Oregon Health & Science University
National Institutes of Health	Characterizing mechanistic heterogeneity across ADHD and Autism	\$465,839	2.1	Oregon Health & Science University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Developmental programming of sex differences in brain innate immune cells	\$183,965	2.CC	Ohio State University
Department of Defense - Army	DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$0	2.1	Northwestern University
National Institutes of Health	Chloride homeostasis and GABA maturation in fragile X syndrome	\$193,125	2.1	Northwestern University
National Institutes of Health	A Family-Genetic Study of Language in Autism	\$661,091	2.1	Northwestern University
National Institutes of Health	Understanding the Role of EPAC2 in Cognitive Function	\$48,576	2.1	Northwestern University
National Institutes of Health	Perception and central coherence in autism: A family genetic eye-tracking study	\$73,594	2.1	Northwestern University
National Institutes of Health	A Family-Genetic Study of Autism and Fragile X Syndrome	\$868,531	2.1	Northwestern University
National Institutes of Health	Experience-dependent plasticity of synaptic structure.-Resubmission-1	\$370,781	2.1	New York University School of Medicine
National Institutes of Health	Alternative splicing-mediated mechanisms of cortical interneuron maturation and circuit integration	\$96,751	2.1	New York University School of Medicine
Simons Foundation	Interneuron subtype-specific malfunction in autism spectrum disorders	\$120,000	2.1	New York University School of Medicine
National Institutes of Health	Neuronal Adaptation and Plasticity after Chronic Disuse	\$423,750	2.1	New York University School of Medicine
Simons Foundation	Role of a novel PRC1 complex in neurodevelopment and ASD neurobiology	\$225,000	2.1	New York University School of Medicine
National Institutes of Health	Neuronal Correlates of Autistic Traits in ADHD and Autism	\$785,428	2.1	New York University School of Medicine
National Institutes of Health	The cognitive searchlight: TRN circuit dissection in health and disease	\$513,366	2.1	New York University School of Medicine
Brain & Behavior Research Foundation	Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders	\$33,000	2.2	New York University
Brain & Behavior Research Foundation	Common Thalamic Circuits for Sleep and Attention	\$17,500	2.2	New York University
Simons Foundation	Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$0	2.1	New York University
Simons Foundation	Neural and cognitive discoordination in autism-related mouse models	\$0	2.1	New York University
National Institutes of Health	Translation, Synchrony, and Cognition	\$379,689	2.1	New York University
Simons Foundation	Roles of pro-inflammatory Th17 cells in autism	\$124,846	2.1	New York University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Department of Defense - Army	Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$0	2.1	Nemours Children's Health System, Jacksonville
Department of Defense - Army	CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS	\$0	2.2	Naval Medical Research Center
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	2.1	National Institutes of Health
National Institutes of Health	Functional and Structural Optical Brain Imaging	\$822,591	2.1	National Institutes of Health
National Institutes of Health	Developmental Neurogenomics Unit	\$2,390,943	2.1	National Institutes of Health
National Institutes of Health	Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders	\$1,626,666	2.2	National Institutes of Health
National Institutes of Health	Regulation of Neuroligins and Effects on Synapse Number and Function	\$1,133,599	2.1	National Institutes of Health
National Institutes of Health	Roles of Oxytocin and Vasopressin in Brain	\$2,020,403	2.1	National Institutes of Health
National Institutes of Health	Treatment of Medical Conditions among Individuals with Autism Spectrum Disorders	\$518,777	2.2	National Institutes of Health
National Institutes of Health	The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,162,902	2.1	National Institutes of Health
National Institutes of Health	ANALYSIS OF CORTICAL FUNCTION	\$216,871	2.2	National Institutes of Health
Simons Foundation	Speech Phenotype in 16p11.2	\$0	2.1	Murdoch Childrens Research Institute
Simons Foundation	CNTNAP2 regulates production, migration and organization of cortical neurons	\$0	2.1	Memorial Sloan-Kettering Cancer Center
National Institutes of Health	Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$639,375	2.1	Memorial Sloan-Kettering Cancer Center
Simons Foundation	Analysis of Shank3 ubiquitination regulation by RNF31 phosphorylation	\$70,000	2.1	Medical University of South Carolina
Brain & Behavior Research Foundation	A Novel GABA Signalling Pathway in the CNS	\$25,000	2.1	McLean Hospital
Brain & Behavior Research Foundation	Mechanisms of eIF4E-dependent Translational Control in Autism	\$66,667	2.1	McGill University
Brain & Behavior Research Foundation	Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$15,000	2.1	Massachusetts Institute of Technology
National Science Foundation	CAREER: Typical and atypical development of brain regions for theory of mind	\$0	2.1	Massachusetts Institute of Technology
Brain & Behavior Research Foundation	Advancing a Biomarker of Disrupted GABAergic Neurotransmission in Autism	\$17,500	2.1	Massachusetts Institute of Technology

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National Science Foundation	Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	2.1	Massachusetts Institute of Technology
Brain & Behavior Research Foundation	Rapid Phenomic Interrogation of CRISPR-Cas9 Edited Mammalian Brains	\$35,000	2.1	Massachusetts Institute of Technology
National Institutes of Health	Compressive Genomics for Large Omics Data Sets: Algorithms, Applications and Tools	\$372,014	2.Core/Other	Massachusetts Institute of Technology
Simons Foundation	A novel window into ASD through genetic targeting of striosomes - Core	\$175,141	2.1	Massachusetts Institute of Technology
National Institutes of Health	Shank3 in Synaptic Function and Autism	\$401,250	2.1	Massachusetts Institute of Technology
National Institutes of Health	Synaptic pathophysiology of the 16p11.2 microdeletion mouse model	\$531,026	2.2	Massachusetts Institute of Technology
Simons Foundation	The role of PTCHD1 in thalamic reticular nucleus function and ASD	\$250,000	2.1	Massachusetts Institute of Technology
Simons Foundation	Role of the Thalamic Reticular Nucleus in ASD	\$0	2.1	Massachusetts Institute of Technology
National Institutes of Health	Impairments of Theory of Mind disrupt patterns of brain activity	\$319,719	2.1	Massachusetts Institute of Technology
Autism Speaks	PET/MRI investigation of neuroinflammation in autism spectrum disorders	\$0	2.1	Massachusetts General Hospital
Autism Science Foundation	Calcium Channels as a Core Mechanism in the Neurobiology of ASD	\$0	2.1	Massachusetts General Hospital
Autism Speaks	Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$0	2.1	Massachusetts General Hospital
Brain & Behavior Research Foundation	Genotype to Phenotype Association in Autism Spectrum Disorders	\$32,500	2.1	Massachusetts General Hospital
National Institutes of Health	The genomic bridge project (GBP)	\$167,850	2.1	Massachusetts General Hospital
National Institutes of Health	Integration of Emerging Technologies to Define the Spectrum of Structural Variation in Neuropsychiatric Disease	\$58,794	2.1	Massachusetts General Hospital
National Institutes of Health	Mechanotransduction C. elegans	\$588,908	2.1	Massachusetts General Hospital
Simons Foundation	Translational dysregulation in autism pathogenesis and therapy	\$250,000	2.1	Massachusetts General Hospital
Simons Foundation	Molecular consequences of strong effect ASD mutations including 16p11.2	\$250,000	2.1	Massachusetts General Hospital
National Institutes of Health	Environmental Toxins and Microglia-Synapse Interactions in Autism	\$396,969	2.1	Massachusetts General Hospital
Simons Foundation	Characterizing Sensory Hypersensitivities in Autism	\$230,098	2.1	Massachusetts General Hospital

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Functional connectivity substrates of social and non-social deficits in ASD	\$702,426	2.1	Massachusetts General Hospital
National Institutes of Health	CRISPR/Cas9-Based Functional Characterization of ANK2 Mutations in ASD Neural Circuitry	\$95,886	2.1	Massachusetts General Hospital
National Institutes of Health	Dissecting recurrent microdeletion syndromes using dual-guide genome editing	\$580,798	2.1	Massachusetts General Hospital
National Institutes of Health	Alterations to corticothalamic circuitry in a mouse model of autism	\$12,090	2.1	Louisiana State University
National Institutes of Health	Alterations to corticothalamic circuitry in a mouse model of autism	\$110,270	2.1	Louisiana State University
National Institutes of Health	Cellular and Molecular Analysis of the Schizophrenia and Autism Spectrum Disorder gene Transcription Factor 4 (TCF4)	\$456,500	2.1	Lieber Institute, Inc.
National Science Foundation	Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	2.1	Landmark College
Simons Foundation	Identifying autism-associated signaling pathways regulated by CHD8 in vivo	\$62,500	2.1	King's College London
Simons Foundation	Role of Caspr2 (CNTNAP2) in brain circuits - Project 1	\$0	2.1	King's College London
National Institutes of Health	Direct Examination of Imitation-Based Learning in Autism	\$282,800	2.1	Kennedy Krieger Institute
National Institutes of Health	Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain	\$674,484	2.1	Kennedy Krieger Institute
National Institutes of Health	Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain	\$163,315	2.1	Kennedy Krieger Institute
National Science Foundation	UNS: GARDE: Research to Quantify the Health and Development of Children with Disabilities Around the Clock	\$0	2.2	Kansas State University
Simons Foundation	A new non-human primate model for studying communicative behaviors	\$125,000	2.Core/Other	Johns Hopkins University School of Medicine
Simons Foundation	Role of LIN28/let-7 axis in autism	\$0	2.1	Johns Hopkins University School of Medicine
Simons Foundation	Understanding brain disorders related to the 15q11.2 chromosomal region	\$250,000	2.1	Johns Hopkins University School of Medicine
National Institutes of Health	A Multimodal Investigation of Inhibitory Dysfunction in Autism Spectrum Disorder	\$82,734	2.1	Johns Hopkins University
National Institutes of Health	Dynamic regulation of Shank3 and ASD	\$602,491	2.1	Johns Hopkins University
Autism Science Foundation	Study of a potentially novel biomarker for features of ASD	\$25,000	2.1	Johns Hopkins University
National Institutes of Health	Somatosensory Inhibitory Dysfunction in Autism Spectrum Disorder.	\$585,789	2.1	Johns Hopkins University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Autism Science Foundation	Grabbing the attention of females with autism spectrum disorder: An eye tracking study	\$5,000	2.CC	Instituto Nacional de Sade Doutor Ricardo Jorge (INSA)
Simons Foundation	Probing the development and reversibility of autism-related phenotypes in SETD5 conditional knockout mice	\$99,730	2.1	Institute of Science and Technology Austria
Simons Foundation	Do toll-like receptor innate immune responses act via autism risk genes to alter neuronal morphology and function?	\$70,000	2.1	Institute of Molecular Biology, Academia Sinica
Brain & Behavior Research Foundation	Developmental Role of Prefrontal Cortex-raphe Circuits in Stress and Mood Disorders	\$17,500	2.1	INSERM
National Institutes of Health	Developmental Linkage of Metabolic Homeostasis and Sociality	\$281,746	2.1	Indiana University
National Institutes of Health	Cdh8-dependent circuit development in autism	\$423,750	2.1	Icahn School of Medicine At Mount Sinai
National Institutes of Health	Genetics of conotruncal defects and associated neurodevelopmental outcomes	\$453,446	2.2	Icahn School of Medicine At Mount Sinai
National Institutes of Health	Birth Defects: Moebius syndrome and related facial weakness disorders	\$368,816	2.2	Icahn School of Medicine At Mount Sinai
National Institutes of Health	Long non-coding RNAs in gene regulatory networks underlying Autism	\$253,538	2.1	Icahn School of Medicine At Mount Sinai
National Institutes of Health	Neurodevelopmental Phenotypes in MLL mutant mice	\$435,379	2.1	Icahn School of Medicine At Mount Sinai
National Institutes of Health	Development of Behavioral and Neural Biomarkers for Autism Spectrum Disorder Using a Genetically Defined Subtype	\$232,184	2.1	Icahn School of Medicine At Mount Sinai
National Institutes of Health	Serotonin Receptor Subtypes as Pharmacotherapeutic Targets in Autism	\$202,500	2.1	Hussman Institute for Autism, Inc.
Simons Foundation	Probing perception and sensorimotor coupling in mouse models of autism	\$75,000	2.1	Harvard University
Simons Foundation	Understanding somatosensory deficits in Autism Spectrum Disorder	\$125,000	2.1	Harvard University
Simons Foundation	Molecular characterization of temperature sensitive circuits in the mouse	\$180,000	2.1	Harvard University
Simons Foundation	Analysis of oxytocin function in brain circuits processing social cues	\$62,500	2.1	Harvard University
National Institutes of Health	Neurotrophic Factor Regulation of Gene Expression	\$622,854	2.1	Harvard Medical School
Simons Foundation	Microglia in models of normal brain development, prenatal immune stress and genetic risk for autism	\$200,000	2.1	Harvard Medical School
National Institutes of Health	Neuronal Activity-Dependent Regulation of MeCP2	\$606,287	2.1	Harvard Medical School

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Optical imaging of circuit dynamics in autism models in virtual reality	\$0	2.1	Harvard Medical School
National Institutes of Health	Elucidating cutaneous mechanosensory circuits, from development to disease	\$831,501	2.1	Harvard Medical School
National Institutes of Health	A Novel Essential Gene for Human Cognitive Function	\$31,881	2.1	Harvard Medical School
National Institutes of Health	The Social Brain in Schizophrenia and Autism Spectrum Disorders	\$419,139	2.1	Hartford Hospital
National Institutes of Health	Maximizing Biospecimen Collection from Children with Mental Health Conditions	\$266,785	2.1	Group Health Cooperative
National Institutes of Health	Microbiota and Neural Circuits controlling Social Behavior	\$226,750	2.2	Georgia State University
National Science Foundation	Gesture as a forerunner of linguistic change-insights from autism	\$0	2.3	Georgia State University
National Institutes of Health	Multimodal Developmental Neurogenetics of Females with ASD	\$2,525,159	2.CC	George Washington University
Simons Foundation	Disruption of Cortical Projection Neurons, Circuits, and Cognition in ASD	\$248,843	2.1	George Washington University
Simons Foundation	Dysregulation of mTor/Tsc in 22q11DS Autism Model	\$125,000	2.1	George Washington University
National Institutes of Health	Role of the intracellular signal integrator CC2D1A in the developing nervous system	\$56,118	2.1	George Washington University
National Institutes of Health	Neural basis of working memory and inhibitory control in ASD Children using NIRS	\$30,876	2.1	Georgetown University
Autism Speaks	Foundation Associates agreement (BrainNet)	\$375,000	2.1	Foundation Associates, LLC
Simons Foundation	Neurobiological basis of connectivity deficits in autism	\$67,436	2.1	Fondazione Istituto Italiano di Tecnologia
National Institutes of Health	Development and afferent regulation of auditory neurons	\$380,000	2.1	Florida State University
Simons Foundation	Immune p38-alpha MAPK activation: Convergent mechanism linking autism models	\$214,613	2.1	Florida Atlantic University
Department of Defense - Army	MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER	\$0	2.1	Feinstein Institute for Medical Research
National Institutes of Health	ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	\$267,536	2.Core/Other	Emory University
National Institutes of Health	ACE Center: Predicting risk and resilience in ASD through social visual engagement	\$354,189	2.1	Emory University
National Institutes of Health	Predicting Voice Quality in ASD from Early Markers of Vocal Development	\$67,078	2.1	Emory University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Decoding the RGS14 Interactome/Signalosome in CA2 hippocampal neurons	\$234,000	2.1	Emory University
National Institutes of Health	ACE Center: Predicting risk and resilience in ASD through social visual engagement	\$1	2.1	Emory University
National Institutes of Health	ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	\$1	2.Core/Other	Emory University
National Institutes of Health	Tet-mediated Epigenetic Modulation in Autism	\$603,129	2.1	Emory University
National Institutes of Health	Change in social adaptive action and brain connectivity in infants' first 6 months	\$165,939	2.1	Emory University
National Institutes of Health	Tet-mediated Epigenetic Modulation in Autism	\$117,000	2.1	Emory University
National Science Foundation	MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$0	2.1	Emerson College
National Institutes of Health	Verbal/non-verbal asynchrony in adolescents with high-functioning Autism	\$379,851	2.1	Emerson College
Brain & Behavior Research Foundation	The Role of Sensory Over-responsivity in the Development of Anxiety in Children With and Without Autism	\$34,672	2.2	Duke University Medical Center
Simons Foundation	Does Astrocyte Dysfunction Contribute to Synaptic Pathologies in Autism?	\$75,000	2.1	Duke University Medical Center
Simons Foundation	SCN2A mouse	\$0	2.1	Duke University Medical Center
Department of Defense - Army	PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	2.2	Duke University
Department of Defense - Army	PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	2.2	Duke University
Brain & Behavior Research Foundation	In vivo Imaging of Prefrontal Cortical Activity During Social Interactions in Normal and Autism Mice	\$35,000	2.1	Duke University
National Institutes of Health	Fragile X Phenotypes Modulated by Altered Signaling to the Synaptic Cytoskeleton	\$343,438	2.1	Duke University
National Institutes of Health	Analysis of Shank3 Complete and Temporal and Spatial Specific Knockout Mice	\$425,202	2.1	Duke University
Autism Speaks	Investigating Shank3 function during synaptogenesis in mice to define a therapeutic window for ASD.	\$30,000	2.1	Duke University
National Institutes of Health	Quantitative Analysis of the Postsynaptic Inhibitory Complex In Vivo	\$238,500	2.Core/Other	Duke University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$174,607	2.1	Duke University
National Institutes of Health	Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$234,157	2.1	Duke University
National Institutes of Health	Developing measures for community-based research on trauma and related conditions in ASD	\$133,492	2.2	Drexel University
National Institutes of Health	Role of 14-3-3epsilon in neurite initiation	\$340,161	2.1	Drexel University
National Institutes of Health	The Impact of Pten Signaling on Neuronal Form and Function	\$405,000	2.1	Dartmouth College
Simons Foundation	Role of the hippocampal CA2 region in autism	\$125,000	2.1	Columbia University Medical Center
Autism Speaks	Molecular analysis of gene-environment interactions in the intestines of children with autism	\$0	2.2	Columbia University
Brain & Behavior Research Foundation	Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD	\$17,500	2.1	Columbia University
Brain & Behavior Research Foundation	Cellular Mechanisms Controlling White Matter Connectivity: Making Sense of a Genetic Risk Factor for Autism and Schizophrenia	\$35,000	2.1	Columbia University
Simons Foundation	Neuronal translation in Tsc2+/- and Fmr1-/- mutant ASD mouse models	\$124,999	2.1	Columbia University
Simons Foundation	Autophagy pathway alterations in lymphocytes: Potential biomarkers for autism?	\$79,551	2.1	Columbia University
National Institutes of Health	Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	2.1	Columbia University
Simons Foundation	The intersection between habit and anxiety in a genetic model of autism	\$125,000	2.1	Cold Spring Harbor Laboratory
Simons Foundation	A novel window into ASD through genetic targeting of striosomes - Project 1	\$72,271	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	Disrupted auditory cortical plasticity and behavior in a model of Rett syndrome	\$527,412	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$473,750	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso	\$396,250	2.1	Cleveland Clinic
Autism Research Institute	Proteomic Studies of Autistic Brain	\$25,650	2.1	Cleveland Clinic
National Institutes of Health	SLC7A5-MTOR Regulation of Neural Development	\$442,241	2.1	Clemson University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Department of Defense - Army	AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?	\$0	2.2	Children's Mercy Hospital
Department of Defense - Army	Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$0	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$318,519	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Thalamic activity and structure and surface neural oscillations in autism	\$182,546	2.1	Children's Hospital of Philadelphia
National Institutes of Health	A longitudinal study of brain development in children with autism	\$735,113	2.1	Children's Hospital of Philadelphia
National Institutes of Health	MEG Studies of Auditory Processing in Minimally/Non-Verbal Children with ASD and Intellectual Disability	\$245,548	2.1	Children's Hospital of Philadelphia
National Institutes of Health	A Mitochondrial-Interneuronal Hypothesis of Autism	\$673,299	2.1	Children's Hospital of Philadelphia
Autism Science Foundation	Undergraduate Research Award	\$3,000	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Function and Structure Adaptations in Forebrain Development	\$590,225	2.1	Children's Hospital Los Angeles
Simons Foundation	Explore the pathogenic role of mTor signaling in chr16p11.2 microdeletion	\$0	2.1	Children's Hospital Los Angeles
Simons Foundation	Convergent signaling pathways linking PTEN and MeCP2, two risk genes for autism spectrum disorders	\$67,200	2.1	Charité – Medical University of Berlin
Simons Foundation	Identification of genes responsible for a genetic cause of autism	\$125,000	2.1	Case Western Reserve University
Simons Foundation	A Novel Transcriptional Cascade Involved in Brain Overgrowth in ASD	\$35,000	2.1	Case Western Reserve University
National Institutes of Health	Prefrontal cortical dysfunction in Rett syndrome	\$396,250	2.2	Case Western Reserve University
Autism Science Foundation	Investigating Autism with Direct Intracranial Recordings	\$0	2.2	California Institute of Technology
Brain & Behavior Research Foundation	Developing Neural Markers to Evaluate Social Skills Training in ASD	\$35,000	2.1	California Institute of Technology
Simons Foundation	Novel technology for behavioral phenotyping of autism mouse models	\$75,000	2.1	California Institute of Technology
Autism Speaks	Na <sup>+</sup> -H <sup>+</sup> Exchanger Mechanisms in Autism Pathophysiology and Treatment	\$0	2.1	Brown University
National Institutes of Health	Genetic-imaging study of obsessive compulsive behavior in autism	\$316,135	2.2	Brown University
National Institutes of Health	Development of vision and attention in typical and ASD individuals	\$282,879	2.1	Brown University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Assessing thalamocortical circuit function in TSC1 and NHE6 mouse models	\$75,000	2.1	Brown University
National Institutes of Health	Autism-linked endosomal mechanisms in neuronal arborization and connectivity	\$406,250	2.1	Brown University
National Institutes of Health	Mechanisms of circuit failure and treatments in patient-derived neurons in autism	\$406,250	2.1	Brown University
Simons Foundation	Cellular models for autism de novo mutations using human stem cells	\$250,000	2.Core/Other	Broad Institute, Inc.
Simons Foundation	Dissecting primary motor cortex circuit dysfunction in a mouse model of MeCP2 duplication syndrome	\$137,500	2.1	Brigham and Women's Hospital
National Institutes of Health	M1 circuit dysfunction in MECP2 duplication syndrome	\$282,068	2.1	Brigham and Women's Hospital
Brain & Behavior Research Foundation	Rebuilding Inhibition in the Autistic Brain	\$49,680	2.1	Brandeis University
Simons Foundation	Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders.	\$250,000	2.1	Brandeis University
National Institutes of Health	Organization of Excitatory and Inhibitory Circuits in ASD	\$409,250	2.1	Boston University
Brain & Behavior Research Foundation	Dysfunction of Cortical Systems for Language and Working Memory in Autism Spectrum Disorder	\$17,500	2.1	Boston University
Autism Speaks	Cortical Markers of Central Auditory Processing Disorder in Minimally Verbal Children with ASD	\$30,400	2.1	Boston University
National Institutes of Health	Neurobehavioral Research on Infants at Risk for Language Delay and ASD	\$740,072	2.3	Boston University
National Institutes of Health	Mechanisms underlying word learning in children with ASD: Non-social learning and	\$172,195	2.1	Boston University
National Science Foundation	Social cognition for competition versus cooperation	\$382,643	2.Core/Other	Boston College
National Institutes of Health	Sex-specific regulation of social play	\$250,400	2.CC	Boston College
National Institutes of Health	Developmental Synaptopaties Associated with TSC, PTEN and SHANK3 Mutations	\$331,349	2.1	Boston Children's Hospital
National Institutes of Health	Developmental Synaptopaties Associated with TSC, PTEN and SHANK3 Mutations	\$216,154	2.1	Boston Children's Hospital
National Institutes of Health	Developmental Synaptopaties Associated with TSC, PTEN and SHANK3 Mutations	\$386,566	2.1	Boston Children's Hospital
National Institutes of Health	Developmental Synaptopaties Associated with TSC, PTEN and SHANK3 Mutations	\$89,954	2.1	Boston Children's Hospital
National Institutes of Health	Visual Circuit Regression and Its Rescue in RTT Mouse Models	\$564,049	2.1	Boston Children's Hospital

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Electrophysiological Response to Executive Control Training in Autism	\$233,604	2.1	Boston Children's Hospital
Simons Foundation	Development of corticothalamic circuits of prefrontal cortex in mouse models of autism	\$75,000	2.1	Boston Children's Hospital
Simons Foundation	Quantification of Learning Algorithm Performance to Inputs of Variable Complexity: Implications for Emotional Intelligence in Autism Spectrum Disorder	\$15,791	2.1	Boston Children's Hospital
National Institutes of Health	1/2-Somatic mosaicism and autism spectrum disorder	\$1,595,121	2.1	Boston Children's Hospital
National Institutes of Health	1/2-Somatic mosaicism and autism spectrum disorder	\$101,700	2.1	Boston Children's Hospital
National Institutes of Health	MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism	\$728,507	2.1	Boston Children's Hospital
National Institutes of Health	Mechanisms of Synapse Remodeling in TSC	\$126,066	2.2	Boston Children's Hospital
National Institutes of Health	Cell Type-specific Alternative Splicing Controls Cerebral Cortical Development	\$162,356	2.Core/Other	Boston Children's Hospital
National Institutes of Health	Neurobiological Mechanism of 15q11-13 Duplication Autism Spectrum Disorder	\$380,625	2.1	Beth Israel Deaconess Medical Center
National Institutes of Health	Cortical Plasticity in Autism Spectrum Disorders	\$437,648	2.1	Beth Israel Deaconess Medical Center
Department of Defense - Army	The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	2.1	Baylor College of Medicine
Simons Foundation	Canonical Computations in Autism	\$137,070	2.1	Baylor College of Medicine
National Institutes of Health	Hippocampal mechanisms in observational learning	\$397,754	2.1	Baylor College of Medicine
Department of Defense - Army	Forward Genetic Screen to Identify Novel Therapeutic Entry Points of an Autism Spectrum Disorder	\$587,878	2.1	Baylor College of Medicine
Department of Defense - Army	Brain Network Activation Patterns in Autism Due to Genomic Copy Number Variation	\$562,429	2.1	Baylor College of Medicine
National Institutes of Health	The Nature of Astrocyte Heterogeneity in RTT	\$196,974	2.1	Baylor College Of Medicine
Simons Foundation	Hippocampal mechanisms of social learning in animal models of autism	\$0	2.1	Baylor College of Medicine
National Institutes of Health	Rescuing Motor Deficits In SHANK3 Related Disorders	\$178,190	2.1	Baylor College Of Medicine
National Institutes of Health	Molecular Pathogenesis Studies of Rett Syndrome	\$346,719	2.1	Baylor College of Medicine
National Institutes of Health	Adult Neurogenesis and Executive Function	\$417,500	2.1	Albert Einstein College of Medicine
Simons Foundation	Genetic rescue of a mouse model of Fragile X by targeted deletion of RICTOR	\$70,000	2.1	Albert Einstein College of Medicine

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Monoallelic expression in neurons derived from induced pluripotent stem cells	\$417,500	2.1	Albert Einsteign College of Medicine

