

IDDRC Approved Users: 2019-2020
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Investigator Name	Grant Number	Funded Project
Abend, Nicholas Scott	K02NS096058	Electrographic Seizure Management and Neurobehavioral Outcomes in Critically Ill Children
Ahrens-Nicklas, Rebecca	K08NS105865	Mechanisms of Neuronal Network Dysfunction in Juvenile Neuronal Ceroid Lipofuscinosis
Anderson, Stewart A	R01MH066912	Generating and Studying GABAergic Forebrain Interneurons with Human Stem Cells
Anderson, Stewart A	R01MH110185	iPSC Phenotype Mitochondrial Haplotype and Psychosis in 22q11 Deletion Syndrome
Aquizu Lopez, Naiara	R00NS089859	Exploring the Role of AMP Deaminases in Neuronal Development and Degeneration
Bhatnagar, Seema	R01 MH109975	Sex Differences in Orexins
Bhoj, Elizabeth	K08NS109281	Mechanism of Disease in TBCK-Related Intellectual Disability Syndrome, A Novel Neurodegenerative Disorder with mTOR Dysfunction
Bhoj, Elizabeth	Burrough's Wellcome Fund	A Novel Pediatric Neurodegenerative Disorder Caused by Histone 3.3 Mutations: Unique Insights into the Histone Code
Blendy, Julie	R21DA044017	Behavioral and Epigenetic Changes Following Adolescent Oxycodone Exposure
Bloy, Luke	K01 MH108762	MEG Imaging Techniques for Low-Functioning Pediatric Populations
Blum, Nathan	6T77MC00012-15-01	HRSA/MCHB Training Developmental-Behavioral Pediatricians: The MCHB/PENN Partnership
Chen, Yu-Han	K01 MH108822	Development of Infant Brain MEG Responses to Social Stimuli: Comparison to ASD
Cohen, Akiva S	R37HD059288	Injury-Induced Alterations In Limbic Functional Circuitry
Cohen, Akiva S	NCT01860404	Hit Heads Trial: Head Injury Treatment With Healthy Advanced Dietary Supplements
Coulter, Douglas A	R01NS038572	Neuronal Circuit Mechanisms Of Epileptogenesis
Coulter, Douglas A	R01NS082046	Normal And Pathological Function Of The Dentate Gyrus
Edgar, James C.	R01MH107506	A Longitudinal Study of Brain Development in Children with Autism
Edgar, James C.	R01HD093776	Brain Structure and Function in Infants
Elovitz, Michal	R01 HD076032	The role of TLR signaling in fetal brain injury from prenatal inflammation
Falk, Marni	R01GM120762	Pharmacologic Treatment Of Mitochondrial Complex I Dysfunction In C. elegans
Falk, Marni	U24HD093483	Expert Curation of Pediatric Mitochondrial Leigh-Like Syndrome Genes and Variants
Fuccillo, Marc	R01MH115030	Molecular and Circuit Mechanisms of Neurexin1-Mediated Goal-Directed Dysfunction
Ganetzky, Rebecca	K08DK113250	Characterizing Cell and Zebrafish Models of Mitochondrial Complex V Deficiency
Goldberg, Ethan	K08 NS097633	Dynamic Two-Photon Calcium Imaging and Optogenetic Manipulation of Epileptic Brain Circuits in an Experimental Model of Temporal Lobe Epilepsy
Goldberg, Ethan	R01NS110869	Interneuron Axonopathy Underlies Circuit Dysfunction in a Mouse Model of Dravet Syndrome

Gur, Raquel E	U01MH119738	1/9: Dissecting the Effects of Genomic Variants on Enriched for Neuropsychiatric Disorders and Neurobehavioral Dimensions in CNVS
Hocking, Matthew	R21NS106135	Neurophysiological and Neuroanatomical Processes Related to Autism Spectrum Disorder in Neurofibromatosis Type 1
Huang, Hao	R01MH092535	Structural Development Of Human Fetal Brain
Jensen, Frances E	R21NS105437	Interaction Between Epilepsy and AD: Novel Therapeutic Strategies
Jordan Sciutto, Kelly L/Grinspan, Judy	R01MH098742	Oligodendrocyte Damage And Dysfunction In HIV Associated Neurocognitive Disorder
Kahana, Michael Jacob	R01MH061975	Electrophysiology Of Human Spatial Cognition
Kayser, Matthew	DP2NS111996	Building Brains in Our Sleep: A Drosophila Larval Platform for Examining Sleep and Neurogenesis
Korb, Erica	R00MH111836	The Histone Code of Neuronal Function and Dysfunction
Lazar, Mitchell A.	R01DK045586	Biology Of The Orphan Receptor Rev-Erb Alpha
Li, Changhong	R01DK098517	Fuel Metabolism And Insulin Secretion In Katp-Hyperinsulinism Human Islets
Litt, Brian	R01NS099348	Virtual Resection to Treat Epilepsy
Lynch, David Robinson	R01FD006029	Natural History of Friedreich Ataxia in Children
Marsh, Eric D	U54HD061222	Rett Syndrome, MECP2 Duplications, And Rett-Related Disorders Natural History
Marsh, Eric D	R01NS100007	Arx associated transcriptional networks in neocortical development
Miller, Judith	R03MH116356	Secondary Data Analysis of Universal Autism Screening in a Large Primary Care Network: The Impact of Early Autism Screening on Age of Diagnosis, Referral, and Entry into Intervention
Ming, Guo-Li	R35NS097370	Functional Roles of Genetic Risk Factors for Brain Development in Neurogenesis and Neurodevelopment
Parish-Morris, Julia	R42MH115539	Immersive Virtual Reality as a Tool to Improve Police Safety in Adolescents and Adults with ASD
Parish-Morris, Julia	R03MH119557	Infant Vocalizations as Early Markers of Autism Spectrum Disorder
Pierce, Robert C.	R01 DA033641	Transgenerational Inheritance of a Cocaine Resistance Phenotype
Reddy, Ravinder	R01NS087516	A Novel Method For Glutamate Imaging
Roberts, Timothy P	U54HD086984	MEG Studies of Auditory Processing in Minimally/Non-Verbal Children with ASD and Intellectual Disability
Robinson, Michael Byrne	T32NS007413	Training Program In Neurodevelopmental Disabilities
Robinson, Michael Byrne	R01NS106693	Astroglial Glutamate Transporters, Calcium and Mitochondria
Saby, Joni	K01MH118378	Neural Signatures of Tactile Processing and Sensorimotor GABA in Development and Autism Spectrum Disorder
Schultz, Robert Thomas	R01ES026961	Investigating Air Pollution Effects on the Developing Brain and ASD
Schultz, Robert Thomas	Medgenics, Inc.	A 12-Week, Double-Blind, Placebo-Controlled, Randomized Withdrawal Study to Assess the Safety

		and Efficacy of NFC-1 in Subjects Aged 12-17 Years with 22q11.2 Deletion Syndrome and Commonly Associated Neuropsychiatric Conditions (Anxiety, ADHD, ASD)
Schultz, Robert Thomas	SFARI #387903	CHOP National Autism Cohort
Schultz, Robert Thomas	R01MH107431	Dimensional Analysis of Developmental Brain Disorders using an Online, Genome-First Approach
Schultz, Robert Thomas	R01HD055741	A Longitudinal MRI Study Of Infants At Risk For Autism
Schultz, Robert Thomas	R01MH118327	Predicting Autism and Social Functioning from Computer Vision Analyses of Motor Synchrony during Dyadic Interactions
Sehgal, Amita	R37NS048471	Cycling in a Circadian Circuit
Simmons, Rebecca	R01DK114054	Mechanisms by which IUGR leads to Diabetes
Smith, Douglas	R01NS092389	Detection And Mechanisms Of Mild Traumatic Brain Injury
Song, Hongjun	R37NS047344	Local Circuitry Mechanisms Regulating Adult Hippocampal Neurogenesis
Song, Yuanquan	R01NS107392	Targeting ATR to Promote Regeneration and Functional Recovery After Neural Injury
St. Geme, Joseph W.	T32HD043021	CHOP Institutional Training In Pediatrics
St. Geme, Joseph W.	K12HD043245	CHOP Pediatric Scholars Program
Stanley, Charles Alfred	R37DK056268	Islet Dysregulation In Infants With Congenital Hyperinsulinism
Takano, Hajime	R21NS106434	Dynamic Contributions of Identified Neurons to High Frequency Oscillations
Tennekoon, Gihan I	R01AR056973	Magnetic Resonance Imaging And Biomarkers For Muscular Dystrophy
Thomas, Steven A	R01MH100319	Molecular Mechanisms of the Stress Response
Thomas, Steven A	R21AG058263	Norepinephrine: A Novel Regulator of Amyloid Beta-42 Peptides
Vanderver, Adeline	U01HD082806	Reverse Transcriptase Inhibitors in Aicardi Goutieres Syndrome
Vanderver, Adeline	CURE Tobacco Formula Grant	<i>TUBB4A</i> Models of Disease
Verma, Ragini	R01HD089390	Temporal Connectomics For Infant Brain: Neurodevelopment Modulated by Pathology
Verma, Ragini	R01MH117807	Harmonization for Multisite Connectomics: Parsing Heterogeneity and Creating Markers in ASD
Vinogradov, Sergei	R21EB027397	A Molecular Probe for High-Resolution Dual Imaging of Temperature and Oxygen In Vivo
Vite, Charles H	P40OD010939	Referral Center- Animal Models Of Human Genetic Diseases
Wallace, Douglas C	R01NS021328	Mitochondrial Inborn Errors In Metabolism
Wallace, Douglas C	R01MH108592	A Mitochondrial-Interneuronal Hypothesis of Autism
Wolf, John A.	R01NS101108	Network Dysfunction and Neuromodulation Following TBI
Wolfe, John H	R01NS08867	Disseminated Gene Delivery To The CNS By Human iPSC-Derived Neural Stem Cells

Wolfe, John H	R01NS110349	Translational Studies on Cerebrospinal Fluid (CSF) – Directed Gene Therapy for Global Neurometabolic Brain Disease
Wu, Gary D.	R01DK107566	The Gut Microbiome and the Metabolome in Chronic Kidney Disease
Yerys, Benjamin	Akili Interactive	Pilot study to assess the feasibility of EVO and educational video, game-play (control), in Autistic children ages 8 to 15 years old
Yodh, Arjun G./Licht, Daniel	R01NS060653	Diffuse Optics For Acute Stroke Management
Yodh, Arjun G	P41EB015893	Optical Imaging and Monitoring
Zhou, Zhaolan	R56MH111719	Understanding the Epigenetic Mechanisms Underlying Stress-Related Neuropsychiatric Disorders
Zhou, Zhaolan	R01NS081054	Understanding The Pathogenic Mechanisms of Rett Syndrome
Zhou, Zhaolan	R01NS102731	Pathogenic Studies of CDKL5 Disorder