

# IDDRC APPROVED USERS

2021-2022



Core User	Funded Project	Grant Number
Abend, Nicholas	Electrographic Seizure Management and Neurobehavioral Outcomes in Critically Ill Children	K02NS096058
Adang, Laura Ann	Clinical Measures in Aicardi Goutières Syndrome	K23NS114113
Ahrens-Nicklas, Rebecca	Mechanisms of Neuronal Network Dysfunction in Juvenile Neuronal Ceroid Lipofuscinosis	K08NS105865
Anderson, Stewart	Generating and Accelerating the Maturation of PVALB-Fast Spiking Interneurons from Human Stem Cells	R01MH066912
Baker, Wes	Diffuse Optics for Pediatric Hydrocephalus Management	R01NS113945
Bartolomei, Marisa	Preconception Phthalate Exposure and Offspring Outcomes	R01ES028206
Bartolomei, Marisa	Long-term Physiological and Behavioral Outcomes, Epigenetic Profiles and and Multigenerational Phenotypes in a Mouse ART Model	R01HD092266
Bennett, Frederick	Creation of New Tools to Study Human Microglia Using Blood Cells	K08MH112120
Bhatnagar, Seema	Sex Differences in Orexins	R01MH109975
Bhoj, Elizabeth	Mechanism of disease in TBCK-related intellectual disability syndrome a novel neurodegenerative disorder with mTOR dysfunction	K08NS109281
Bhoj, Elizabeth	A Novel Pediatric Neurodegenerative Disorder Caused by Histone 3.3 Mutations: Unique Insights into the Histone Code	Burrough's Wellcome Fund Career Award
Brodkin, Edward	Randomized Controlled Trial of a Novel, Cognitive-Behavioral Therapy Program to Improve Social Functioning in Adults on the Autism Spectrum	Eagles Autism Challenge

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Chou, Stella	Understanding the Complexity of Gene Dosage Imbalance in Down Syndrome	R01HL151260
Chung, Shinjae	Sleep Control by the Preoptic Area of the Hypothalamus	R01NS110865
Cohen, Akiva	Injury Induced Alterations in Limbic Functional Circuitry	R37HD059288
Coulter, Douglas	Neuronal Circuit Mechanisms of Epileptogenesis	R01NS038572
Coulter, Douglas	Normal and Pathological Function of the Dentate Gyrus	R01NS082046
Curry, Allison	An Integrated Approach to Establish the Scientific Foundation for Driving Among Adolescents with Autism	R01HD096221
Edgar, James Christopher	Brain Structure and Function in Infants	R01HD093776
Edmondson, Andrew	O-glycosylation mechanisms of neurological deficits in congenital disorders of glycosylation	K08NS118119
Emanuel, Beverly	Molecular Dissection Of The 22q11.2 Deletion Syndrome	R01GM125757
Falk, Marni	Pharmacologic Treatment Of Mitochondrial Complex I Dysfunction in <i>C. elegans</i>	R01GM120762
Falk, Marni	Mitochondrial respiratory chain disease mechanistic and therapeutic modeling	R35GM134863
Ficcioglu, Can	Rare Diseases Clinical Research Consortia (RDCRC) For The Rare Diseases Clinical Research Network (RDCRN)	U54HD061221

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Fuccillo, Marc	Molecular and Circuit Mechanisms of Neurexin1-Mediated Goal-Directed Dysfunction	R01MH115030
Ganetzky, Rebecca	Characterizing Cell and Zebrafish Models of Mitochondrial Complex V Deficiency	K08DK113250
Gaynor, William	Pediatric Heart Network Children's Hospital of Philadelphia	UG1HL135683
Goldberg, Ethan	Dynamic Two-Photon Calcium Imaging and Optogenetic Manipulation of Epileptic Brain Circuits in an Experimental Model of Temporal Lobe Epilepsy	K08NS097633
Goldberg, Ethan	Interneuron Axonopathy Underlies Circuit Dysfunction in a Mouse Model of Dravet Syndrome	R01NS110869
Goldberg, Ethan	Pathomechanisms of SCN3A-related neurodevelopmental disorder	R01NS119977
Gur, Raquel	1/9: Dissecting the Effects of Genomic Variants on Enriched for Neuropsychiatric Disorders and Neurobehavioral Dimensions in CNVS	U01MH119738
Helbig, Ingo	Joint analysis of genomic and electronic medical record data to assess outcomes and drug response in pediatric epilepsies	K02NS112600
Hocking, Matthew	Mechanisms of Social Deficits in Youth with Neurofibromatosis Type 1	NF190017
Huang, Hao	Structural Development of Human Fetal Brain	R01MH092535
Izumi, Kosuke/Schultz, Robert	Harnessing clinical genomic characterization to accelerate translational advances for patients with IDD	U01TR002761
Kayser, Matthew	Building Brains in Our Sleep: A Drosophila Larval Platform for Examining Sleep and Neurogenesis	DP2NS111996

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Kelly, Andrea B.	Acceptability and Performance on In-Home Polysomnography in Youth With Down Syndrome	R21HD101003
Korb, Erica	The Histone Code of Neuronal Function and Dysfunction	R00MH111836
Litt, Brian	Virtual Resection to Treat Epilepsy	R01NS099348
Lynch, David	Natural History of Friedreich Ataxia in Children	R01FD006029
Lynch, David	Fratxin Measurement for Clinical Trial Readiness in Friedreich Ataxia	R21TR003035
Maday, Sandra	Defining The Roles And Regulation Of Neuronal Autophagy	R01NS110716
Marsh, Eric	Natural History of Rett Syndrome & Related Disorders	U54HD061222
Marsh, Eric	Arx Associated Transcriptional Networks In Neocortical Development	R01NS100007
McCormack, Shana	NAD+ Precursor Supplementation with Exercise Training to Improve Aerobic Capacity in Friedreich's Ataxia	R01HL149722
McDonald-McGinn, Donna	2/9: Dissecting The Effects Of Genomic Variants On Neurobehavioral Dimensions In CNVS Enriched For Neuropsychiatric Disorders	U01MH119737
McGuire, Jennifer	Altered Brain Structure and Function in Adolescents with Behaviorally Acquired HIV	K23NS094069
Ming, Guo-Li	Functional Roles of Genetic Risk Factors for Brain Development and Neurogenesis and Neurodevelopment	R35NS097370

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Ortiz-Gonzalez, Xilma	TBCK Encephaloneuronopathy: Neurodegeneration at the Crossroads of Mitochondrial and Lysosomal Dysfunction	K02NS112456
Ortiz-Gonzalez, Xilma	Looking at Neurodegenerative Disorders Through a Pediatric Lens	Burroughs Wellcome Fund
Parish-Morris, Julia	Digitizing Human Vocal Interaction to Understand and Diagnose Autism	R01DC018289
Roberts, Timothy	Electrophysiological Signatures of Language Impairment in Autism Spectrum Disorder	R01DC008871
Robinson, Michael	Astroglial Glutamate Transporters, Calcium, and Mitochondria	R01NS106693
Robinson, Michael	Training Program in Neurodevelopmental Disabilities	T32NS007413
Saby, Joni	Neural Signatures of Tactile Processing and Sensorimotor GABA in Development and Autism Spectrum Disorder	K01MH118378
Schultz, Robert	Predicting Autism and Social Functioning from Computer Vision Analyses of Motor Synchrony during Dyadic Interactions	R01MH118327
Schultz, Robert	A Longitudinal Brain and Behavior Study of Autism from Infancy through School Age	R01HD055741
Schultz, Robert	MRI-based Presymptomatic Prediction of ASD	R01MH118362
Schultz, Robert	A Longitudinal MRI Study Characterizing Very Early Brain Development in Infants with Down Syndrome	R01HD088125
Schultz, Robert	Computer Vision Based Digital Phenotyping of 16p11.2 Arbaclofen Double Blind Placebo Controlled Study	Clinical Research Associates, LLC

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Simmons, Rebecca	Mechanisms by which IUGR Leads to Diabetes	R01DK114054
Smith, Douglas	TBI and Amyloid-Beta Pathologies	R01NS038104
Song, Hongjun	Continuous Neurogenesis In The Mammalian Hippocampus	R35NS116843
Song, Yuanquan	Targeting ATR to Promote Regeneration and Functional Recovery after Neural Injury	R01NS107392
St. Geme III, Joseph	CHOP Institutional Training in Pediatrics	T32HD043021
St. Geme III, Joseph	CHOP Pediatric Scholars Program	K12HD043245
Tunç, Birkan	A Computer Vision Toolbox for Computational Analysis of Nonverbal Social Communication	R01MH122599
Vanderver, Adeline	The Global Leukodystrophy Initiative Clinical Trials Network (GLIA-CTN)	U54NS115052
Verma, Ragini	Harmonization for Multisite Connectomics: Parsing Heterogeneity and Creating Markers in ASD	R01MH117807
Vite, Charles	Combination Therapy, Biomarkers, and Imaging in Canine Krabbe Disease	R01NS096087
Wallace, Douglas	A Mitochondrial-Interneuronal Hypothesis of Autism	R01MH108592
Wang, Kai	Detection and Annotation of Structural Variants From Long-Read Sequencing	R01GM132713

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White, Brian R.	Optical Functional Neuroimaging of Acute and Chronic Hypoxia	K08NS117897
Wolf, John A.	Network Dysfunction and Neuromodulation Following TBI	R01NS101108
Wolfe, John H.	Translational Studies on Cerebrospinal Fluid (CSF) – Directed Gene Therapy for Global Neurometabolic Brain Disease	R01NS110349
Yerys, Benjamin	A Longitudinal MRI Study of Toddlers with Simplex Autism	Eagles Autism Challenge
Zhou, Zhaolan	Pathogenic Studies of CDKL5 Disorder	R01NS102731
Zhou, Zhaolan	Understanding the Epigenetic Mechanisms Underlying Stress-Related Neuropsychiatric Disorders	R01MH111719
Zhou, Zhaolan	Understanding the Pathogenic Mechanisms of Rett Syndrome	R01NS081054