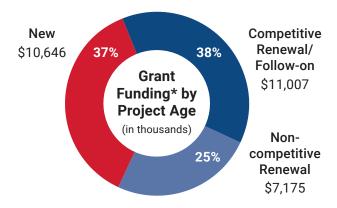


2024 Funded Research

Cure Alzheimer's Fund spent \$30 million to support our research program that included grants for 120 research projects across four research areas of focus. To read about 2024 research projects, visit us online at **bit.ly/2024-research**.





Number of New Investigators and Projects

	Number	% of Total
New Named Investigators	32	23%
New Projects	41	34%
New Institutions	15	23%

^{*} Excludes research materials and scientific meeting spending.

FOUNDATIONAL RESEARCH	
GENETIC RISK FACTORS	
Mapping the X Chromosome Multi-Ome in Alzheimer's and Parkinson's Disease Michael Belloy, Ph.D., Washington University School of Medicine in St. Louis	\$219,578
Systematic Assessment of Tandem Repeats in Alzheimer's Disease (STaR-AD) Lars Bertram, M.D., University of Lübeck, Germany Valerija Dobricic, Ph.D., University of Lübeck, Germany	\$363,000
Integrating Single-Cell Genomics for Pathways to Protection and Resilience Against Alzheimer's Disease Winston Hide, Ph.D., Beth Israel Deaconess Medical Center; Harvard Medical School	\$201,235
Moving the Cure Alzheimer's Fund Alzheimer's Genome Project™ Beyond Simple Associations: Integrating Functional Information, Fine-Mapping and Causal Inference Approaches into the Family-Based Analysis of the Cure Alzheimer's Fund Whole-Genome Sequencing (WGS) Family Study Christoph Lange, Ph.D., Harvard T.H. Chan School of Public Health	\$230,000
Precision Medicine Prediction Model for Alzheimer's Disease Using Cooperative Learning Approaches for Multi-Omic Data Christoph Lange, Ph.D., Harvard T.H. Chan School of Public Health	\$187,315
Interpreting Alzheimer's Disease-Associated Genetic Variation at Enhancer Regions Andreas R. Pfenning, Ph.D., Carnegie Mellon University	\$201,250
The Alzheimer's Genome Project™ Rudolph E. Tanzi, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$1,955,000
BIOMARKERS, DIAGNOSTICS, AND STUDIES OF RISK AND RESILIENCE	
Midlife Autoantibody Profiles and the Risk of Late-Onset Alzheimer's Disease in Women Yu Chen, Ph.D., New York University	\$201,250

Project/Researcher Distributi	ion Amount
Plasma Proteins, Sex and Alzheimer's Disease: Proteome-Wide Analyses of the UK Biobank and Framingham Heart Study P. Murali Doraiswamy, MBBS, FRCP, Duke University School of Medicine	\$268,750
Utility of Blood-Based Markers for Predicting Amyloid-Related Imaging Abnormalities and Their Course in Mild Cognitive Impairment and Alzheimer's Disease Subjects Undergoing Routine Clinical Treatment with Amyloid-Directed Antibodies	\$24,957
P. Murali Doraiswamy, MBBS, FRCP, Duke University School of Medicine	
Bioinformatics Platform for Modeling Alzheimer's Progression (MAP-AD Platform) Ali Ezzati, M.D., University of California, Irvine	\$201,250
Alzheimer's Disease PET Imaging of Nonfibrillar Amyloid Beta Aggregates Using Azapeptide (AZP) Tracer Samuel E. Gandy, M.D., Ph.D., Icahn School of Medicine at Mount Sinai Brigitte Guérin, Ph.D., Université de Sherbrooke, Canada William D. Lubell, Ph.D., Université de Montréal, Canada Shai Rahimipour, Ph.D., Bar-Ilan University, Israel	\$213,426
Understanding Human Brain Resilience to Alzheimer's Pathology Teresa Gomez-Isla, M.D., Massachusetts General Hospital; Harvard Medical School	\$300,000
Identification and Validation of Plasma-Based Lipid Biomarkers for Early Alzheimer's Disease in the Unique, Primarily Hispanic, South Texas Population Xianlin Han, Ph.D., The University of Texas Health Science Center at San Antonio Tiffany F. Kautz, Ph.D., The University of Texas Health Science Center at San Antonio Bernard Fongang, Ph.D., The University of Texas Health Science Center at San Antonio	\$201,250
Relationship Between Alzheimer's Disease Risk Score and Outcomes of Mild Repetitive Neurotrauma Thomas W. McAllister, M.D., Indiana University School of Medicine Michael McCrea, Ph.D., ABPP, Medical College of Wisconsin; Wisconsin Institute of NeuroScience	\$185,140
Characterization of Alzheimer's Disease Molecular Biomarker Profiles Throughout the Pathobiological Continuum Krista L. Moulder, Ph.D., Washington University School of Medicine in St. Louis	\$123,098
BIOLOGICAL RESEARCH MATERIALS: NEW ANIMAL AND CELLULAR MODELS, AND HUMAN SAMPLES	
Investigating the Serial Pathologies Related to Plasma Biomarkers in NLFTaum/h Mice: A New Mouse Model Featuring Neurofibrillary Tangles as a Result of Rising Amyloid Beta without Microtubule-Associated Protein Tau (MAPT) Mutations Frances Edwards, Ph.D., University College London, England John Hardy, Ph.D., University College London, England	\$200,388
Growth, Characterization and Distribution of a Neurodegenerative Disease-Focused Fibroblast/iPS Cell Bank to Support Molecular Models of Patient-Specific Variation with Validation in Matched Donated Brain Tissues Derek H. Oakley, M.D., Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
Characterization and Validation of Two Recently Created Sheep Models of Alzheimer's Disease in Preparation for Use as a Preclinical Pharmaceutical Testing Model Russell G. Snell, Ph.D., University of Auckland, New Zealand Natasha McKean, Ph.D., University of Auckland, New Zealand	\$199,926
Genes to Therapies™ (G2T) Research Models and Materials Taconic Biosciences	\$202,715
Effect of APOE Genotype in a Novel Rat Model of Cerebral Amyloid Angiopathy William Van Nostrand, Ph.D., The University of Rhode Island	\$201,250
Dissecting Alzheimer's Disease Phenotypes in Directly Reprogrammed Patient-Derived Neurons Andrew S. Yoo, Ph.D., Washington University School of Medicine in St. Louis	\$258,750

TRANSLATIONAL RESEARCH	
STUDIES OF NOVEL ALZHEIMER'S DISEASE GENES	
Role of Ras and Rab Interactor 3 (RIN3) and Bridging Integrator 1 (BIN1) Interaction in the Neurons for Alzheimer's Disease Development Raja Bhattacharyya, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
Multiomic and Functional Characterization of Soluble TREM2 Modifiers Carlos Cruchaga, Ph.D., Washington University School of Medicine in St. Louis	\$200,356
The Impact of Mutations in the Ligand-Binding Domain of CD33 on Alzheimer's Disease Pathogenesis Ana Griciuc, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$125,000
Dissecting the Modulatory Roles of Interleukin-17 Receptor D in Alzheimer's Disease Jun Huh, Ph.D., Harvard Medical School	\$201,250
Elucidating the Therapeutic Potential of the Endo-Lysosome Pathway for Alzheimer's Disease Jessica Young, Ph.D., University of Washington	\$201,250
STUDIES OF AMYLOID PRECURSOR PROTEIN AND AMYLOID BETA	
Role of Stabilization of MAMs and MAM-associated Palmitoylated APP (MAM-palAPP) in Alzheimer's Disease Raja Bhattacharyya, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
Structural Mimicry in Microbial and Antimicrobial Amyloids Connected to Neurodegenerative Diseases Meytal Landau, B. Pharm, M.Sc., Ph.D., Technion, Israel Institute of Technology, Israel; Deutsches Elektronen-Synchrotron (DESY), Germany	\$200,400
ADAM10 Cleavage of Amyloid Precursor Protein: Physiological Function in the Brain and Therapeutic Potential for Alzheimer's Disease Jaehong Suh, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$230,000
STUDIES OF TAU	
Alzheimer's Disease Tau Consortium: Strain Replication in Mouse and Cell Models Marc I. Diamond, M.D., University of Texas Southwestern Medical Center	\$287,277
Alzheimer's Disease Tau Consortium: Post-Translational Modifications and Tau Ultrastructure; Impact of Amyloid Beta on Tau In Vivo Karen E. Duff, Ph.D., University College London, England René Frank, Ph.D., University of Leeds, England	\$366,770
Alzheimer's Disease Tau Consortium: Toxic Consequences of Early Tau Seeding Bradley T. Hyman, M.D., Ph.D., Massachusetts General Hospital; Harvard Medical School Rachel Bennett, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$287,500
Alzheimer's Disease Tau Consortium: The Role of Amyloid Beta-Induced Membrane Damage in Tau Pathology Katherine Sadleir, Ph.D., Northwestern University Feinberg School of Medicine Robert Vassar, Ph.D., Northwestern University Feinberg School of Medicine	\$286,559
Alzheimer's Disease Tau Consortium: Deep Mass Spectrometry Profiling of Tau Aggregates in Alzheimer's Disease and Other Tauopathies Henrik Zetterberg, M.D., Ph.D., University of Gothenburg, Sweden; University College London, England Gunnar Brinkmalm, Ph.D., University of Gothenburg, Sweden	\$287,500
Cellular Vulnerability to Pathological Tau Protein Accumulation in Alzheimer's Disease Mathieu Bourdenx, Ph.D., University College London, England Karen E. Duff, Ph.D., University College London, England	\$219,880

Multiomics Characterization of Tau Pathology Onset and its Relationship with Amyloid in the Human Hippocampus Inma Cobos, M.D., Ph.D., Stanford University	\$201,250
Identifying Mediators of Tau-Mediated Neuronal Necroptosis Using an Innovative In Vivo CRISPR Screen Bart De Strooper, M.D., Ph.D., VIB-KU Leuven, Belgium; University College London, England	\$230,000
Selective Vulnerability in Posterior Cortical Atrophy John R. Dickson, M.D., Ph.D., Massachusetts General Hospital; Harvard Medical School Bradley T. Hyman, M.D., Ph.D., Massachusetts General Hospital; Harvard Medical School	\$230,000
Tau-Induced Postsynaptic Dysfunction in Tauopathy Models Karin Hochrainer, Ph.D., Weill Cornell Medicine Costantino Iadecola, M.D., Weill Cornell Medical College	\$201,250
Hypertension, Tau and Neurodegeneration Costantino Iadecola, M.D., Weill Cornell Medical College Giuseppe Faraco, M.D., Ph.D., Weill Cornell Medical College	\$200,532
Modulating the Levels of Tau-Seed Interactors to Treat Alzheimer's Disease Cristian Lasagna-Reeves, Ph.D., Baylor College of Medicine	\$200,631
Investigating the Role of Tau Protein in Neuronal Senescence Miranda E. Orr, Ph.D., Washington University School of Medicine in St. Louis	\$201,250
STUDIES OF APOLIPOPROTEIN E (APOE)	
Fleming APOE Consortium: APOE Genotype-Specific Effects of Human Young Plasma on Cerebrovasculature and Alzheimer's Disease Pathology Guojun Bu, Ph.D., The Hong Kong University of Science and Technology	\$287,500
Fleming APOE Consortium: APOE4 Accelerates CD8 Exhaustion via Glucocorticoid Signaling in Alzheimer's Female Carriers Oleg Butovsky, Ph.D., Brigham and Women's Hospital; Harvard Medical School Vijay K. Kuchroo, D.V.M., Ph.D., Brigham and Women's Hospital; Harvard Medical School	\$575,000
Fleming APOE Consortium: Cell Autonomous Roles of Protective APOE Variants in Microglia in Response to Amyloid Pathology Michael Haney, Ph.D., University of Pennsylvania	\$285,952
Fleming APOE Consortium: Investigating Potential Cell Autonomous Neuroprotection of APOE Protective Variants David M. Holtzman, M.D., Washington University School of Medicine in St. Louis	\$345,000
Fleming APOE Consortium: Effect of Cholesteryl Ester Transfer Protein Activity on Amyloid and Cerebrovascular Pathologies in Animal Models of Alzheimer's Disease Cheryl Wellington, Ph.D., University of British Columbia, Canada	\$287,500
Investigating Lysosomal Mechanisms of Risk and Resilience in Alzheimer's Disease Joel Blanchard, Ph.D., Icahn School of Medicine at Mount Sinai	\$201,250
APOE in Choroid Plexus Function and Related Alzheimer's Disease Pathogenesis Guojun Bu, Ph.D., The Hong Kong University of Science and Technology	\$230,000
Circuit Dynamics in APOE4 Mice Ksenia Kastanenka, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,227
Neuroproteasomes Mechanistically Connect APOE Isoforms to Endogenous Tau Aggregation Kapil V. Ramachandran, Ph.D., Columbia University	\$201,279

STUDIES OF THE IMMUNE RESPONSE IN ALZHEIMER'S DISEASE	
Neuroimmune Consortium: Astrocyte Inflammatory Contributions to Alzheimer's Disease Shane A. Liddelow, Ph.D., New York University	\$287,500
Neuroimmune Consortium: Impact of AD Polygenic Risk Score on Microglial Response to Peripheral Inflammation Martine Therrien, Ph.D., University of California, Davis	\$285,851
2024 Jeffrey L. Morby Prize for Exceptional Research David M. Holtzman, M.D., Washington University School of Medicine in St. Louis	\$201,250
The Role of Astrocyte-Secreted Insulin-Like Growth Factor Binding Protein 2 (IGFBP2) in the Progression of Alzheimer's Disease Nicola Allen, Ph.D., Salk Institute for Biological Studies	\$201,250
Contributions of IL34 Signaling to Microglial Function and Alzheimer's Pathology in Mice Staci Bilbo, Ph.D., Duke University School of Medicine	\$192,314
Defining a Role for the MS4A Genes in Alzheimer's Disease Sandeep Robert Datta, M.D., Ph.D., Harvard Medical School	\$201,250
VGF-Derived Peptide Therapy for Alzheimer's Disease: Studies of Mouse and Human TLQP-21 and its Receptor, C3aR1 Michelle E. Ehrlich, M.D., Icahn School of Medicine at Mount Sinai Stephen R. Salton, M.D., Ph.D., Icahn School of Medicine at Mount Sinai	\$172,500
Tau and Amyloid Beta are Innate Immune Antimicrobial Peptides in the Brain William Eimer, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
Targeting Reactive Astrocytes AMPK Signaling to Suppress Inflammation in Alzheimer's Disease Gilbert Gallardo, Ph.D., Washington University School of Medicine in St. Louis	\$201,250
Impact of DNA Damage-Mediated Stimulator of Interferon Genes (STING) Activation on Myelin Function in an Alzheimer's Disease Animal Model Alban Gaultier, Ph.D., University of Virginia	\$201,250
Multidimensional Profiling of TREM2-Mutated or APOE4-Mutated Microglia in Human Brain Organoids to Understand Dysregulated Microglia Neuronal Crosstalk in Alzheimer's Disease Florent Ginhoux, Ph.D., Agency for Science, Technology and Research, Singapore	\$201,250
Endogenous Human Antibodies Associated with Alzheimer's Disease Charles Glabe, Ph.D., University of California, Irvine	\$230,000
Investigating Alzheimer's Disease-Associated Membrane Biology in Microglia and Neurons Anna Greka, M.D., Ph.D., Brigham and Women's Hospital; Harvard Medical School; Broad Institute Beth Stevens, Ph.D., Boston Children's Hospital; Harvard Medical School; Broad Institute	\$230,000
Antiviral T-Cell Infiltration to the Meninges and Brain Influences Neurodegeneration in Alzheimer's Disease Jasmin Herz, Ph.D., Washington University School of Medicine in St. Louis	\$201,250
Role of CD8+ T Cell-Glial Interactions in Mediating Alzheimer's Disease Pathogenesis Mehdi Jorfi, Ph.D., Massachusetts General Hospital; Harvard Medical School Joseph Park, Ph.D., Massachusetts General Hospital; Harvard Medical School Rudolph E. Tanzi, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
To Elucidate the Role of Memory T Cells as a Determinant of Age-Related Inflammation in Alzheimer's Disease Susan Kaech, Ph.D., Salk Institute for Biological Studies	\$201,250

Project/Researcher	Distribution Amount
Contribution of Skull Bone Marrow-Derived Cells to Alzheimer's Disease Jonathan Kipnis, Ph.D., Washington University School of Medicine in St. Louis	\$201,250
Role of Checkpoint Molecules TIM-3 and LAG-3 in Microglial Function in Alzheimer's Disease Vijay K. Kuchroo, D.V.M., Ph.D., Brigham and Women's Hospital; Harvard Medical School	\$201,250
Do Classical Complement Activation and the Route of Administration of Anti-Amyloid Antibodies Contribute to Vascular Side Effects Known as Amyloid-Related Imaging Abnormalities? Cynthia A. Lemere, Ph.D., Brigham and Women's Hospital; Harvard Medical School	\$228,779
The Role of Interferon-Induced Transmembrane Protein 3 (IFITM3) and Gamma-Secretase in Microglia Yueming Li, Ph.D., Memorial Sloan Kettering Cancer Center	\$230,000
Elucidating the Role of CLEC7A in Tau-Mediated Neurodegenerative Disease John R. Lukens, Ph.D., University of Virginia	\$201,250
Meningeal Regulatory T Cells (Tregs) in Individuals With Versus Without Alzheimer's Disease Diane Mathis, Ph.D., Harvard Medical School	\$201,250
Investigating the Association Between Clonal Hematopoiesis and Alzheimer's Disease Cameron McAlpine, Ph.D., Icahn School of Medicine at Mount Sinai	\$201,250
Elucidating Mechanisms Driving the Compromised Balance Between Mitophagy and cGAS-STING-Initiated Inflammation Toward a Treatment for Alzheimer's Disease Per Nilsson, Ph.D., Karolinska Institutet, Sweden Evandro F. Fang, Ph.D., University of Oslo, Akershus University Hospital, Norway	\$198,490
Probing the Molecular Underpinnings of G Protein-Coupled Receptor ADGRG1 Mediated Protective Microglial Responses to Alzheimer's Disease Xianhua Piao, M.D., Ph.D., University of California, San Francisco	\$201,250
Extracellular ATP is a Key Factor in Promoting Alzheimer's Disease Neuroinflammation Paola Pizzo, Ph.D., University of Padova, Italy Anna Lisa Giuliani, Ph.D., University of Ferrara, Italy	\$149,995
Specificity of T-Cell Responses in Autosomal Dominant Alzheimer's Disease (ADAD) Naresha Saligrama, Ph.D., Washington University School of Medicine in St. Louis	\$201,250
Dissecting Microglial State Dynamics in Alzheimer's Disease Li-Huei Tsai, Ph.D., Massachusetts Institute of Technology; Broad Institute	\$300,000
T-Cell Modulation of Microglia to Treat Alzheimer's Disease Howard L. Weiner, M.D., Brigham and Women's Hospital; Harvard Medical School	\$201,234
Decipher the Astrocyte Cell-Surface Proteome in Alzheimer's Disease Hui Zheng, Ph.D., Baylor College of Medicine Junmin Peng, Ph.D., St. Jude Children's Research Hospital	\$230,000
STUDIES OF ALTERNATIVE NEURODEGENERATIVE PATHWAYS	
Brain Exit and Entry Consortium: Human Three-Dimensional Neuro-Vascular Interaction and Meningeal Lymphatics Models with Application to Alzheimer's Disease Se Hoon Choi, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$287,500
Brain Entry and Exit Consortium: How Does Vascular Fatty Acid Metabolism Regulate the Pathophysiology of Alzheimer's Disease? Richard Daneman, Ph.D., University of California, San Diego	\$287,500

Brain Entry and Exit Consortium: Meningeal Mast Cell Control of Cerebrospinal Fluid Dynamics in Homeostasis and Alzheimer's Disease	\$345,000
Jonathan Kipnis, Ph.D., Washington University School of Medicine in St. Louis	
Brain Entry and Exit Consortium: Neuroinflammation at the Choroid Plexus in Alzheimer's Disease Maria K. Lehtinen, Ph.D., Boston Children's Hospital; Harvard Medical School	\$86,250
Brain Entry and Exit Consortium: Does Subarachnoid Lymphatic-Like Membrane (SLYM) Failure Compromise Glymphatic Clearance in Alzheimer's Disease? Maiken Nedergaard, M.D., D.M.Sc., University of Rochester; University of Copenhagen, Denmark	\$287,500
Brain Entry and Exit Consortium: High-Resolution Magnetic Resonance Imaging of the Brain Borders Daniel S. Reich, M.D., Ph.D., National Institute of Neurological Disorders and Stroke, National Institutes of Health	\$287,500
Microbiome Consortium: Harnessing Diet-Microbe Interactions to Prevent Alzheimer's Disease Pathogenesis Laura M. Cox, Ph.D., Brigham and Women's Hospital; Harvard Medical School	\$275,500
Microbiome Consortium: The Role of Gut Microbial Metabolism in Tau-Mediated Neurodegeneration David M. Holtzman, M.D., Washington University School of Medicine in St. Louis	\$287,500
Microbiome Consortium: Temporal Relationships Between Gut Dysbiosis, Brain Amyloid Beta Metabolism and Microglia Cell Activation Following Antibiotic Treatment Sangram S. Sisodia, Ph.D., The University of Chicago	\$250,000
Microbiome Consortium: Microbial Profiling of Human Brain and Gut Microbiomes in Alzheimer's Disease Rudolph E. Tanzi, Ph.D., Massachusetts General Hospital; Harvard Medical School Nanda Kumar Navalpur Shanmugam, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$287,500
Microbiome Consortium: Interaction of the Microbiome with Astrocytes and Amyloid Pathology Robert Vassar, Ph.D., Northwestern University Feinberg School of Medicine	\$345,000
Identifying Age-Related Proteomic Changes That Predict Future Onset of Amyloid Beta Aggregation in Late-Onset Alzheimer's Disease Randall J. Bateman, M.D., Washington University School of Medicine in St. Louis	\$201,250
Neuroprotective Effects of the Exercise Hormone Irisin in Alzheimer's Disease Se Hoon Choi, Ph.D., Massachusetts General Hospital; Harvard Medical School Christiane Wrann, D.V.M., Ph.D., Massachusetts General Hospital; Harvard Medical School	\$345,000
Restore Meningeal Lymphatic Drainage to Alleviate White Matter Damage and Cerebral Amyloid Angiopathy in a Model of Alzheimer's Disease Sandro Da Mesquita, Ph.D., Mayo Clinic, Jacksonville	\$201,250
Decoding Microbial Products Modulating Alzheimer's Disease—Toward Precision Postbiotics Treatment Eran Elinav, M.D., Ph.D., Weizmann Institute of Science, Israel; DKFZ, Germany	\$201,250
Turning Up Mitophagy to Blunt Alzheimer's Tau Pathologies Evandro F. Fang, Ph.D., University of Oslo, Akershus University Hospital, Norway	\$200,675
The Role of Calcium Homeostasis in Axonal Spheroid Formation in Alzheimer's Disease Jaime Grutzendler, M.D., Yale School of Medicine	\$199,995
Novel Artificial Intelligence (AI) Decodes Aging Neurons Andrew J. Holbrook, Ph.D., University of California, Los Angeles Theodore Zwang, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250

Project/Researcher	Distribution Amount
Characterizing Gut Bacteriome-Mycobiome Synergy in Correlation to Amylin-Amyloid Beta Antimicrobial Synergy in Alzheimer's Disease (AD) in AD Mouse Models Deepak Kumar Vijaya Kumar, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
Dysregulation of Signaling on Post Synaptic Density Scaffolds in Alzheimer's Disease Alexandra C. Newton, Ph.D., University of California, San Diego	\$201,250
Evaluating the Contribution of TDP-43 Dysfunction and Cryptic Mis-Splicing to Alzheimer's Disease Pathogenesi Leonard Petrucelli, Ph.D., Mayo Clinic, Jacksonville	\$201,250
Protection Against Alzheimer's Disease with Longevity-Promoting Intervention 17a-Estradiol Christian Pike, Ph.D., University of Southern California Bérénice A. Benayoun, Ph.D., University of Southern California	\$227,410
2-Deoxyglucose and Its Analogs as Novel Therapeutics to Build Resilience to Alzheimer's Disease Rajiv R. Ratan, M.D., Ph.D., Weill Cornell Medicine; Burke Neurological Institute Theodore J. Lampidis, Ph.D., University of Miami	\$197,596
Pre-Clinical Testing of CDK4/6 Inhibitors as a Therapeutic Strategy in Alzheimer's Disease Using Alzheimer's Disease Tauopathy Mouse Model Peter Sicinski, M.D., Ph.D., Dana-Farber Cancer Institute; Harvard Medical School	\$201,250
Identifying the Sex-Specific Roles of the Gut Microbiome-Brain Axis in a Mouse Model of Amyloid Beta Amyloido Sangram S. Sisodia, Ph.D., The University of Chicago	osis \$216,287
Role of Psychosocial Stress in Alzheimer's Disease Filip Swirski, Ph.D., Icahn School of Medicine at Mount Sinai	\$201,250
Role of the Circulating Exerkine GPLD1 in Ameliorating Alzheimer's Disease Pathology Saul Villeda, Ph.D., University of California, San Francisco	\$201,250
Understanding How Human Brain Vascular Cells Mediate Genetic Risk for Alzheimer's Disease Andrew Yang, Ph.D., University of California, San Francisco	\$201,250
DRUG DISCOVERY	
DRUG SCREENING AND LEAD DRUG EVALUATION PROJECTS	
Development of Small Molecule Inhibitors of Cholesterol 25-hydroxylase Anil Cashikar, Ph.D., Washington University School of Medicine in St. Louis Bahaa Elgendy, Ph.D., Washington University School of Medicine in St. Louis	\$201,250
Validation and Characterization of Compounds Modulating Neuroinflammation and Amyloid Beta Uptake in Microglial Cells	\$201,250
Ana Griciuc, Ph.D., Massachusetts General Hospital; Harvard Medical School Luisa Quinti, Ph.D., Massachusetts General Hospital; Harvard Medical School	
Exploring Novel Drug Candidates for Alzheimer's Disease Through Integrative Pathway Analysis and Validation in 3D Cellular Models Doo Yeon Kim, Ph.D., Massachusetts General Hospital; Harvard Medical School Luisa Quinti, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
Identification and Development of CD33 Inhibitors and Pre-RNA Splicing Modulators Subhash Sinha, Ph.D., Weill Cornell Medicine	\$201,250

PRECLINICAL AND CLINICAL DRUG DEVELOPMENT	
PRECLINICAL DRUG DEVELOPMENT	
Combined Hormone Therapy as a Novel Treatment for Alzheimer's Disease in the Face of a Metabolic Challenge: Influence of Sex and Genotype Liisa Galea, Ph.D., University of British Columbia, Canada; Centre for Addiction and Mental Health, Canada Annie Ciernia, Ph.D., University of British Columbia, Canada	\$201,250
Sex-Biased Toll-Like Receptor 7 (TLR7) Signaling in Demyelination and Its Inhibition by Small Molecules Li Gan, Ph.D., Weill Cornell Medicine Subhash Sinha, Ph.D., Weill Cornell Medicine	\$402,500
Targeting Neuroinflammation with Nasal Administration of Anti-CD3 Monoclonal Antibody to Treat Alzheimer's Disease Rafael M. Rezende, Ph.D., Brigham and Women's Hospital; Harvard Medical School	\$195,250
Non-Invasive Delivery of IL-2 to the CNS for Local Expansion of Regulatory T Cells and Prevention of Neurodegeneration in Tauopathy Peter M. Tessier, Ph.D., University of Michigan David M. Holtzman, M.D., Washington University School of Medicine in St. Louis	\$201,250
Preclinical Analysis of Synaptogyrin-3 Oligonucleotides to Target Tauopathy Patrik Verstreken, Ph.D., VIB-KU Leuven, Belgium	\$201,250
Characterization of CNS-Penetrant HDAC11 Selective Inhibitors in Alzheimer's Disease Models Can (Martin) Zhang, M.D., Ph.D., Massachusetts General Hospital; Harvard Medical School Changning Wang, Ph.D., Massachusetts General Hospital; Harvard Medical School	\$201,250
CLINICAL TRIALS	
A Proposal to Evaluate the Effect of Bacillus Calmette-Guérin Vaccination on Alzheimer's Disease Development Tamir Ben-Hur, M.D., Ph.D., Hadassah University Medical Center, Israel Herve Bercovier, D.V.M., M.Sc., Hebrew University of Jerusalem, Israel	\$121,900
OTHER	
SCIENTIFIC MEETINGS AND SUPPORT	
Scientific Meeting Support	\$281,717