

Team Science in IDeA States Administrative Supplements (FY 2023)

NOT-GM-23-034

| Supplement Grant Number | Title (Parent Grant/Supplement Project) | PI Name (Contact) | Project Leads | Institution | Total Costs |
|--------------------------------|--|--------------------------|---|---------------------------------------|--------------------|
| 3P20GM103408-23S4 | Idaho INBRE/Static and Dynamic Atlases of Vertebrate Eye Development | BOHACH, CAROLYN HOVDE | Diane Mitchell, Deborah Stenkamp, Linh Nguyen | UNIVERSITY OF IDAHO | \$848,625 |
| 3P30GM149398-01S1 | CardioPulmonary Vascular Biology COBRE/Identification of the Networks and Pathways Underlying Right Ventricular Dysfunction | CHOUDHARY, GAURAV | Peng Zhang, Richard Clements, Bium-Rak Choi, George Kanriadakis | OCEAN STATE RESEARCH INSTITUTE, INC. | \$1,091,583 |
| 3P20GM103429-22S2 | Arkansas INBRE/Role of P2Y12 in Platelet Microparticles Release and Anti-Inflammatory Response in Non-Dialysis Chronic Kidney Disease Patients | CORNETT, LAWRENCE E | Jerry Ware, Rupak Pathak, Nishank Jain, Yasir Rahmatallah | UNIV OF ARKANSAS FOR MED SCIS | \$606,274 |
| 3P20GM135007-04S2 | Vermont Center for Cardiovascular and Brain Health/Role of Cholesterol and Phosphatidylinositol-4,5-Bisphosphate (PIP2) in Capillary Endothelial Membrane Fluidity and Piezo1 Activity | CUSHMAN, MARY | Osama Harraz, Albert Gonzales | UNIVERSITY OF VERMONT | \$660,479 |
| 3P20GM109098-09S3 | West Virginia University Stroke COBRE/Sex-Dependent Neuroimmune Response to Stroke and Its Role in Cognitive and Functional Recovery | DEVRIES, ANNE COURTNEY | James Walton, Aminata Coulibaly, Shahrzad Latifkhereshky | WEST VIRGINIA UNIVERSITY | \$1,031,107 |
| 3P20GM104318-10S1 | COBRE on Comparative Biology of Tissue Repair, Regeneration and Aging/Effect of Thyroid Hormone-Induced Metamorphosis in Axolotl and Mouse Using Next-Generation Methodologies. | DRUMMOND, IAIN A | Prayag Murawala, Joel Graber, Arturo Hernandez | MOUNT DESERT ISLAND BIOLOGICAL LAB | \$900,266 |
| 3P20GM130447-04S1 | COBRE on Cognitive Neuroscience of Development and Aging/Studying TREM1 Inhibitors to Prevent Global Ischemia-induced Neuronal Death and Cognitive Deficits | DUNAEVSKY, ANNA | Jee-Yeon Hwang, Holly Stessman, Gopal Jadhav | UNIVERSITY OF NEBRASKA MEDICAL CENTER | \$939,079 |
| 3P20GM130447-04S2 | COBRE on Cognitive Neuroscience of Development and Aging/Elucidating the Effects of Polygenic Alzheimer's Disease Risk on Cognitive, Socioemotional, and Behavioral Outcomes in Development and Aging Using a Multimodal Approach and a Multigenerational Sample | DUNAEVSKY, ANNA | Janelle Beadle, David Warren, Kuan-Hua Chen, Jieqiong Wang | UNIVERSITY OF NEBRASKA MEDICAL CENTER | \$1,204,873 |
| 3P20GM103446-23S4 | Delaware INBRE/Personal and Environmental Determinants of Health Behaviors and Developmental Outcomes in Children With and Without Neurodevelopmental Disorders | DUNCAN, MELINDA K | Anjana Bhat, Shannon Robson, Freda Patterson, Carissa Baker-Smith | UNIVERSITY OF DELAWARE | \$783,500 |
| 3P20GM139760-03S2 | Delaware Center for Musculoskeletal Research/Role of Senolytic ABT-263 in Decrease of Senescent Cell Burden in Brain and Bone Tissues of Aged Parkinson's Disease | ELLIOTT, DAWN M | Liyun Wang, Ho Ming Chow, Roxana Burciu, Yong Hwan Kim | UNIVERSITY OF DELAWARE | \$867,011 |

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| 3P20GM104316-09S2 | Discovery of Chemical Probes and Therapeutic Leads, Phase II/Development of New Research and Therapeutic Tools to Elucidate the Key Properties of ADAM9 | FOX, JOSEPH M | Karl Schmitz, Shuo Wei, Sigrid Langhans | UNIVERSITY OF DELAWARE | \$944,312 |
| 3P20GM130452-05S1 | COBRE for Neuromodulation/Cranial Electrotherapy Stimulation: Piloting a Road to PTSD Prevention in First Responders | GREENBERG, BENJAMIN | Andrew Fukuda, Mascha van 't Wout-Frank, Nicole Weiss | BUTLER HOSPITAL | \$660,832 |
| 3U54GM115428-07S1 | Mississippi CTR/Improving the Detection of Cardiometabolic Disease in Young Adults in Mississippi | GRANGER, JOEY P | Megan Renna, Austin Graybeal, Jonathon Stavres, Tanner Thorsen | UNIVERSITY OF MISSISSIPPI MEDICAL CENTER | \$1,127,454 |
| 3P20GM144265-01A1S1 | Regulation of Cellular Behavior in Response to Extracellular Cues/Regulation of Cellular Behavior in Response to Extracellular Cues in Sarcopenia | HENRY, CLARISSA A | Romain Madelaine, Aric Rogers | UNIVERSITY OF MAINE ORONO | \$587,974 |
| 3P30GM145498-02S3 | COBRE on Aging and Regenerative Medicine/Elucidating Fibrosis – Repair Gone Wrong | JAZWINSKI, SMICHAL | Mimi Sammarco, Victor Thannickal, Hong-Wen Deng | TULANE UNIVERSITY OF LOUISIANA | \$1,054,761 |
| 3P20GM109091-10S3 | Center for Targeted Therapeutics/Testing Senicapoc to Alleviate HIV-Associated Neurocognitive Disorder (HAND) with Substance Use Disorder (SUD) | KIARIS, HIPPOKRATIS | Michael Shtutman, Rosemarie Booze, Shilpa Buch | UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA | \$1,063,913 |
| 3P20GM125498-06S1 | Translational Global Infectious Diseases Research Center/Role of the Gut Microbiome in Oral Vaccine Take and Response | KIRKPATRICK, BETH DIANE | Benjamin Lee, Jessica Crothers, Anne Hoen, Jiang Gui | UNIVERSITY OF VERMONT | \$962,333 |
| 3P20GM125504-06S2 | COBRE on Functional Microbiomics, Inflammation and Pathogenicity/Regulation of Inflammation During Leukotriene B4 (LTB4) Imbalance Induced by Silica Inhalation or Y. Pestis Infection | LAMONT, RICHARD J | Matthew Lawrenz, Haribabu Bodduluri | UNIVERSITY OF LOUISVILLE | \$653,846 |
| 3P20GM109095-10S1 | COBRE in Matrix Biology/Mechanosensory Functions of the Bone Cells in Response to Low-Intensity Vibrations | OXFORD, JULIA THOM | Clare Fitzpatrick, Gunes Uzer, Aykut Satici | BOISE STATE UNIVERSITY | \$723,429 |
| 3P20GM103620-10S2 | COBRE for Pediatric Research/Role of Impaired Sterol Biochemistry in Cellular Functions and Its Contribution to Neurodevelopmental Disorders | PEARCE, DAVID A | Kevin Francis, Brandon Scott, Natalie Thiex | SANFORD RESEARCH | \$922,471 |
| 3P20GM103434-22S1 | West Virginia INBRE/Role of Ero1- α in the Progression of Non-Small Lung Cancer | RANKIN, GARY O | Lori Hazlehurst, Jean Bustamante Alvarez, Werner Geldenhuys | MARSHALL UNIVERSITY | \$850,091 |
| 3U54GM115458-08S3 | Great Plains IDeA-CTR/Interventions to Improve and Assess Vaccine Confidence and Uptake in the U.S. | RIZZO, MATTHEW | Chittibabu Guda, Balasrinivasa Sajja, Shibiao Wan | UNIVERSITY OF NEBRASKA MEDICAL CENTER | \$857,567 |
| 3P20GM139745-03S1 | COBRE in Acute Care Research and Rural Disparities/Role of Brown Adipose Tissue in Regulating Glucose Metabolism After Cardiac Arrest | SAWYER, DOUGLAS B | David Seder, Matthew Lynes | MAINEHEALTH | \$526,550 |

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| 3P20GM103432-22S2 | Wyoming INBRE/Mechanisms of Age-Related Nocturia | SEVILLE, ROBERT SCOTT | Emily Schmidt, Danielle Bruns, Nicole Bedford | UNIVERSITY OF WYOMING | \$547,486 |
| 3P20GM130460-04S2 | GlyCORE: Glycoscience Center of Research Excellence/Role of CTHRC1 Glycosylation in Target Cell Binding and Regulating Energy Metabolism | SHARP, JOSHUA S | David Colby, Volkhard Linder, Igor Prudovsky | UNIVERSITY OF MISSISSIPPI | \$474,864 |
| 3P20GM125528-05S1 | CELLULAR AND MOLECULAR GEROSCIENCE CoBRE/ Epigenetic Clocks as an Aging Biomarker to Predict Age-Related Vascular and Cognitive Dysfunction | SONNTAG, WILLIAM | Andriy Yabluchanskiy, Jonathan Wren | UNIVERSITY OF OKLAHOMA HLTH SCIENCES CTR | \$413,904 |
| 3P20GM103427-22S1 | Nebraska INBRE/Dissecting role of MAP3K1 in Cancer | SORGEN, PAUL L | Chittibabu Guda, Amarnath Natarajan, Nicholas Woods, Gargi Ghosal | UNIVERSITY OF NEBRASKA MEDICAL CENTER | \$1,019,438 |
| 3P20GM139762-03S1 | Translational Hearing COBRE/Role of Prenatal Alcohol Exposure in the Development of Impaired Auditory Processing | STEYGER, PETER STEPHEN | Padmashri Ragunathan, Jordan Rowley | CREIGHTON UNIVERSITY | \$195,724 |
| 3P20GM121310-07S4 | Wyoming Sensory Biology COBRE/ Mechanisms Underlying Neuropathic Pain and Neurodegeneration Caused by Intra- and Extracellular Stressors | SUN, QIANQUAN | Mark Gomelsky, Sreejayan Nair Zhaojie Zhang, | UNIVERSITY OF WYOMING | \$907,880 |
| 3P20GM121293-07S1 | Center for Translational Pediatric Research/Assessment of the Clinical Impact of Viral Genetic Diversity, Distribution, and Seasonal Variations of Respiratory Viruses | TACKETT, ALAN | Joshua Kennedy, Darrell Dinwiddie, Daryl Domman | ARKANSAS CHILDREN'S HOSPITAL RES INST | \$955,666 |
| 3P30GM140964-03S2 | COBRE in Oxidants, Redox Balance and Stress Signaling/Role of Noncanonical Redox-Defense Systems in Stress-Resiliency and Therapeutic Resistance in Hepatocellular Carcinoma | TEW, KENNETH D | Danyelle Townsend, Edward Schmidt | MEDICAL UNIVERSITY OF SOUTH CAROLINA | \$595,545 |
| 3P20GM103636-10S1 | COBRE on Developmental Biology in Oklahoma/3D Human Lung Tissue Model to Dissect Cellular Responses Upon SARS-CoV-2 Infection | THOMPSON, LINDA F | Susan Kovats, Willard Freeman, Matthew Walters | OKLAHOMA MEDICAL RESEARCH FOUNDATION | \$640,692 |
| 3P30GM145646-02S1 | Center for Integrative Neuroscience/Establishment of a Research Framework to Understand the Neuropathology of Long-COVID | WEBSTER, MICHAEL A | Alexander Van der Linden, Fang Jiang, Dennis Mathew, Subhash Verma | UNIVERSITY OF NEVADA RENO | \$358,141 |
| 3P20GM130454-05S1 | Center for Quantitative Biology/Studying the Roles of Myeloid Cells in Lupus-Induced Glomerulonephritis Kidney Disease | WHITFIELD, MICHAEL L | Sladjana Skopelja-Gardner, Lucas Salas Diaz | DARTMOUTH COLLEGE | \$771,270 |
| 3P20GM130454-05S3 | Center for Quantitative Biology/Studying the Impact of Key Microbiota-Derived Metabolites on Host Gene Expression Using Multi-Omic Approach | WHITFIELD, MICHAEL L | Anne Hoen, Benjamin Ross, Li Song, Mark Sundrud | DARTMOUTH COLLEGE | \$1,393,183 |

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| 3P20GM104420-09S1 | Center for Modeling Complex Interactions/Generating General Phage for the Use Across Phage Therapy Applications | WICHMAN, HOLLY A | Craig Miller, Tracey Peters, Stephen Krone | UNIVERSITY OF IDAHO | \$556,732 |
| 3P20GM103418-23S1 | Kansas INBRE/Development of Novel Therapeutic Targets for the Treatment of Visceral Hypersensitivity | WRIGHT, DOUGLAS E | Kyle Baumbauer, Sree Chintapalli, Anuradha Ghosh, Erin Young | UNIVERSITY OF KANSAS MEDICAL CENTER | \$1,057,179 |
| 3P20GM139763-03S2 | Center for Cellular Metabolism Research/Role of Mitochondrial Metabolism in Regulation of Cardiac Arrhythmia | XIA, LIJUN | Chi Fung Lee, Chi Lam | OKLAHOMA MEDICAL RESEARCH FOUNDATION | \$571,664 |
| 3P20GM121342-06S1 | COBRE for Translational Research Improving Musculoskeletal Health/Machine Learning-Generated Biomarker for Assessment and Differentiation of Myofascial Pain | YAO, HAI | Hai Xiao, Kuang-Ching Wang, Hui-Lin Tsai | CLEMSON UNIVERSITY | \$606,556 |