COLLEGE OF EDUCATION
Administration & Organization

Principal Investigator: Sarah Winchell Lenhoff, Ph.D.
Sponsor: Skillman Foundation
Title: Detroit Education Research Partnership
Anticipated Total: $198,500
Effective Dates: 9/1/2018 – 8/31/2019

Kinesiology, Health, and Sports Studies
Principal Investigator: Jeanne M. Barcelona, Ph.D.
Sponsor: William Beaumont Hospital
Title: Dearborn SHINES for Healthy Kids Program
Anticipated Total: $115,510
Effective Dates: 8/8/2018 – 8/31/2019

COLLEGE OF ENGINEERING
Biomedical Engineering

Principal Investigator: Liying Zhang, Ph.D.
Sponsor: U.S. Navy - Navy
Title: A Prospective Study of the Effects of Repetitive Low Level Blast Exposure on Fitness for Duty in SOCOM Warriors
Anticipated Total: $901,194
Effective Dates: 9/30/2018 – 9/29/2021

Civil Engineering

Principal Investigator: Esref Emrah Kazan, Ph.D.
Sponsor: U.S. Department of Labor - DOL
Title: Silica Exposure and Safety in Construction Industry
Anticipated Total: $142,496
Effective Dates: 9/30/2018 – 9/30/2019

Principal Investigator: Shawn Patrick McElmurry, Ph.D.
Sponsor: National Science Foundation - NSF
Title: Collaborative Research: CRISP 2.0 Type 2: Water and Health Infrastructure Resilience and Learning (WHIRL)
Anticipated Total: $1,570,000
Effective Dates: 9/1/2018 – 7/31/2022
Computer Science

Principal Investigator: Weisong Shi, Ph.D.
Sponsor: National Science Foundation - NSF
Title: NSF Computer Systems Research (CSR) Program 2018 PI Meeting
Anticipated Total: $160,040
Effective Dates: 8/1/2018 – 7/31/2019

Principal Investigator: Weisong Shi, Ph.D.
Sponsor: MIT Lincoln Laboratory
Title: Representative Public Safety Video Testbed
Anticipated Total: $60,000
Effective Dates: 9/1/2018 – 5/31/2019

Principal Investigator: Zichun Zhong, Ph.D.
Sponsor: National Science Foundation - NSF
Title: CHS: Small: High-Dimensional Euclidean Embedding for 4D Volumetric Shape with Multi-Tensor Field
Anticipated Total: $499,985
Effective Dates: 8/15/2018 – 7/31/2021

Engineering Technology

Principal Investigator: Yeau-Jian Liao, Ph.D.
Sponsor: Macomb Community College
Title: Resource Center for Advanced Automotive Technology (CAAT)
Anticipated Total: $113,584
Effective Dates: 7/1/2018 – 6/30/2021

Industrial & Manufacturing Engineering

Principal Investigator: Gary Witus, Ph.D.
Sponsor: Stevens Institute of Technology
Title: Systems Qualities (SQ) Tradespace and Affordability (SQOTA), Phase 7: 2018-2019
Anticipated Total: $56,250
Effective Dates: 8/24/2018 – 8/23/2019

College of Liberal Arts and Sciences
Chemistry

Principal Investigator: Eduard Yurjev Chekmenev, Ph.D.
Sponsor: National Cancer Institute - NCI
Title: Magnetic Resonance Spectroscopy and Molecular Imaging of Metabolic Pathways in Cancer
Anticipated Total: $257,300
Effective Dates: 9/1/2018 – 8/31/2020
Principal Investigator: Stanislav Groysman, Ph.D.
Sponsor: American Chemical Society
Title: Heterobimetallic Homogeneous Catalysts for CO Oxidation
Anticipated Total: $110,000
Effective Dates: 9/1/2018 – 8/31/2020

Principal Investigator: Jeremy Jacob Kodanko, Ph.D.
Sponsor: Ohio State University - OSU
Title: Design of New Ru(II) Complexes to Control Excited State Reactivity
Anticipated Total: $209,064
Effective Dates: 8/1/2018 – 6/30/2021

Principal Investigator: Federico Augusto Rabuffetti, Ph.D.
Sponsor: Research Corporation for Science Advancement
Title: Crystallochemical Principles of Energy Management in Solid-State Photoluminescent Materials
Anticipated Total: $100,000
Effective Dates: 7/1/2018 – 6/30/2021

Mathematics

Principal Investigator: Steven Marshall Kahn, Ph.D.
Sponsor: Detroit Public Schools - DPS
Title: WSU Math Corps Math Literacy and High School Readiness Program
Anticipated Total: $89,800
Effective Dates: 8/15/2018 – 6/14/2019

Principal Investigator: Hengguang Li, Ph.D.
Sponsor: National Science Foundation - NSF
Title: Novel Finite Element Methods for Three-dimensional Anistropic Singular Problems
Anticipated Total: $198,991
Effective Dates: 8/1/2018 – 7/31/2021

Principal Investigator: Boris S. Mordukhovich, Ph.D.
Sponsor: National Science Foundation - NSF
Title: Advanced Research on Second-Order Variational Analysis with New Applications to Optimization, Control, and Practical Modeling
Anticipated Total: $239,975
Effective Dates: 9/1/2018 – 8/31/2023

Principal Investigator: Gang George Yin, Ph.D.
Sponsor: University of California, San Diego - UCSD
Title: Reliable and optimal coordination of networked systems and action-based space trajectory generation/estimation
Anticipated Total: $116,633
Effective Dates: 8/1/2018 – 8/31/2021
**Physics**

**Principal Investigator:** Gil Paz, Ph.D.  
**Sponsor:** Simons Foundation  
**Title:** How Big is the Proton?  
**Anticipated Total:** $84,914  
**Effective Dates:** 8/17/2018 – 5/15/2019

**Psychology**

**Principal Investigator:** Marilyn Franklin, Ph.D.  
**Sponsor:** Children's Hospital of Michigan Foundation  
**Title:** Integrated Behavioral Health Care for General Pediatrics and Adolescent Medicine  
**Anticipated Total:** $74,451  
**Effective Dates:** 6/15/2018 – 5/31/2019

**Division of Research**  
**Institute of Environmental Health**

**Principal Investigator:** Douglas Mark Ruden, Ph.D.  
**Sponsor:** National Institutes of Health - NIH  
**Title:** Ruden ECHO Subcontract  
**Anticipated Total:** $514,238  
**Effective Dates:** 9/1/2018 – 8/31/2023

**Institute of Gerontology**

**Principal Investigator:** Vojko Kavcic, Ph.D.  
**Sponsor:** National Institutes of Health - NIH  
**Title:** Community-based approach to Early Identification of transitions to Mild Cognitive Impairment (MCI) and Alzheimer’s Disease (AD) in African  
**Anticipated Total:** $3,301,912  
**Effective Dates:** 7/1/2018 – 3/31/2023

**Principal Investigator:** Peter Alexander Lichtenberg, Ph.D.  
**Sponsor:** National Institute on Aging - NIA  
**Title:** Michigan Center for Urban African-American Aging Research  
**Anticipated Total:** $259,847  
**Effective Dates:** 7/1/2018 – 6/30/2023

**Merrill Palmer Skillman Institute**

**Principal Investigator:** Steven J. Ondersma, Ph.D.  
**Sponsor:** Henry Ford Health Systems - HFHS  
**Title:** SBI-tech Michigan: Optimizing SBI Implementation for high-risk alcohol among women of childbearing age  
**Anticipated Total:** $149,226  
**Effective Dates:** 9/30/2018 – 9/29/2022
Principal Investigator: Valerie Ann Simon, Ph.D.
Sponsor: National Institute of Child Health and Human Dev. - NICHD
Title: A Virtual Reality Paradigm for Assessing the Interpersonal Dynamics of Violence Exposure
Anticipated Total: $423,827
Effective Dates: 7/6/2018 – 6/30/2020

Principal Investigator: Ann Michele Stacks, Ph.D.
Sponsor: U.S. Administration for Children and Families - ACF
Title: Recognizing, Reflecting, and Responding to Infant/Toddler Cues: An Integrated Parent-Teacher Intervention to Support Social-Emotional
Anticipated Total: $496,982
Effective Dates: 9/30/2018 – 9/30/2020

EUGENE APPLEBAUM COLLEGE OF PHARMACY AND HEALTH SCIENCES
Pharmaceutical Science

Principal Investigator: Chen Fei, Ph.D.
Sponsor: National Institutes of Health - NIH
Title: Arsenic-induced miRNA-199 and miRNA-214 deplete mitochondrial DNA for the generation of cancer stem-like cells
Anticipated Total: $1,317,815
Effective Dates: 9/1/2018 – 5/31/2023

Principal Investigator: Arun Kunchithapatham Iyer, Ph.D.
Sponsor: U.S. Army Medical Research Acquisition Activity - USAMRAA
Title: Tumor stroma penetrating oligomicelles containing combination payload for reversal of drug resistance and immune modulation in kidney cancer
Anticipated Total: $611,475
Effective Dates: 9/1/2018 – 8/31/2021

Pharmacy Practice

Principal Investigator: Kyle Jon Burghardt, Pharm.D.
Sponsor: National Institute of Diabetes Digestive Kidney Dis. - NIDDK
Title: Acutely Induced Insulin Resistance by Antipsychotic Medication in Healthy Volunteers: Impact of Skeletal Muscle Epigenomic and Proteomic
Anticipated Total: $675,168
Effective Dates: 8/1/2018 – 7/31/2022

GRADUATE SCHOOL

Principal Investigator: Todd Alan Leff, Ph.D.
Sponsor: National Institute on Aging - NIA
Title: Does Glycine Catabolism Play a Role in Age Related Metabolic Disease
Anticipated Total: $406,886
Effective Dates: 8/15/2018 – 6/30/2020
**Principal Investigator**: Ambika Mathur, Ph.D.  
**Sponsor**: University of Detroit Mercy  
**Title**: ReBUILD Detroit (Research Enhancement for BUILDing Detroit)  
**Anticipated Total**: $732,926  
**Effective Dates**: 7/1/2018 – 11/30/2018

**Principal Investigator**: Ambika Mathur, Ph.D.  
**Sponsor**: State of Michigan  
**Title**: KCP FFF  
**Anticipated Total**: $103,735  
**Effective Dates**: 8/1/2018 – 12/31/2018

**LAW SCHOOL**  
**Law Instruction Units**

**Principal Investigator**: Peter Joseph Hammer, Ph.D.  
**Sponsor**: Ford Foundation  
**Title**: DEAL Support Grant  
**Anticipated Total**: $227,500  
**Effective Dates**: 9/1/2018 – 8/31/2019

**PROVOST & VICE PRESIDENT FOR ACADEMIC AFFAIRS**  
**Center for Urban Studies**

**Principal Investigator**: Thomas Lyke Thompson, Ph.D.  
**Sponsor**: Michigan Department of Health and Human Services  
**Title**: AmeriCorps Program for Overdose Prevention and Response  
**Anticipated Total**: $100,000  
**Effective Dates**: 9/1/2018 – 9/30/2019

**Office of the VP for Academic Affairs**

**Principal Investigator**: Ahmad Ezzeddine, Ph.D.  
**Sponsor**: Schoolcraft College  
**Title**: Schoolcraft College PTAC  
**Anticipated Total**: $142,000  
**Effective Dates**: 7/1/2018 – 6/30/2019

**Principal Investigator**: Dawn Suzanne Medley, Ed.S.  
**Sponsor**: Association of Public and Land-Grant Universities  
**Title**: Project Degree Completion  
**Anticipated Total**: $55,400  
**Effective Dates**: 8/1/2018 – 7/31/2019
**School of Medicine**

**Anatomy**

**Principal Investigator:** Linda D. Hazlett, Ph.D.  
**Sponsor:** National Eye Institute - NEI  
**Title:** Core Grant for Vision Research  
**Anticipated Total:** $495,031  
**Effective Dates:** 9/1/2018 – 8/31/2019

**Center Molecular Medicine/Gene**

**Principal Investigator:** Francesca Luca, Ph.D.  
**Sponsor:** National Institutes of Health - NIH  
**Title:** Functional Characterization of the Genetic and Environmental Determinants of Complex Traits  
**Anticipated Total:** $313,658  
**Effective Dates:** 9/1/2018 – 5/31/2022

**Emergency Medicine**

**Principal Investigator:** John Michael Wilburn, M.D.  
**Sponsor:** Merck Sharp Dohme Corporation  
**Title:** A Randomized Parallel-Group, Placebo-Controlled, Double-Blind, Event-Driven, Multi-Center Pivotal Phase III Clinical Outcome Trial of Efficacy and Safety of the Oral sGC Stimulator Vericiguat in Subjects  
**Anticipated Total:** $173,154  
**Effective Dates:** 8/14/2018 – 1/23/2020

**Family Medicine**

**Principal Investigator:** Youcheng Liu, M.D., Sc.D.  
**Sponsor:** Centers for Disease Control and Prevention - CDC  
**Title:** Assessment of Elastomeric Respirators in Healthcare Delivery Settings  
**Anticipated Total:** $392,130  
**Effective Dates:** 9/1/2018 – 8/31/2020

**Principal Investigator:** Dawn Philips Misra, Ph.D.  
**Sponsor:** National Institute of Nursing Research - NINR  
**Title:** Paternal Role in Adverse Birth Outcomes in Black Families  
**Anticipated Total:** $1,836,960  
**Effective Dates:** 9/3/2018 – 6/30/2022
Internal Medicine

Principal Investigator: Sorabh Dhar, M.D.
Sponsor: Veterans Administration - VA
Title: Real-world Clinical Use of Ceftolozane/Tazoactam for the Treatment of Gram-Negative Infections in Northeast Ohio and Southeast Michigan
Anticipated Total: $64,387
Effective Dates: 7/1/2018 – 12/31/2019

Principal Investigator: Dana G. Kissner, M.D.
Sponsor: Cystic Fibrosis Foundation
Title: Care Center Grant
Anticipated Total: $68,420
Effective Dates: 7/1/2018 – 6/30/2019

Principal Investigator: Li Li, Ph.D.
Sponsor: National Heart, Lung and Blood Institute - NHLBI
Title: The Regulatory Roles of Nuclear SM22 in Smooth Muscle Phenotypic Modulation
Anticipated Total: $2,069,516
Effective Dates: 9/1/2018 – 6/30/2022

Microbiology, Immunology & Biochemistry/Cardiovascular Research Institute

Principal Investigator: Allen Jay Rosenspire, Ph.D.
Sponsor: National Institute of Environmental Health Sciences - NIEHS
Title: Understanding the connection between exposure to mercury-immunity and tolerance in B cells
Anticipated Total: $2,240,192
Effective Dates: 9/1/2018 – 7/31/2023

Obstetrics/Gynecology

Principal Investigator: Chaur-Dong Hsu, M.D.
Sponsor: National Institutes of Health - NIH
Title: Continuation of Wayne State University's Successful Development of Physician-Scientists as Independent Researchers in the Area of Women's Reproductive Health.
Anticipated Total: $163,049
Effective Dates: 7/1/2018 – 6/30/2019

Oncology

Principal Investigator: Jennifer L. Beebe-Dimmer, M.P.H., Ph.D.
Sponsor: University of Southern California - USC
Title: Research on Prostate Cancer in Men of African Ancestry: Defining the Roles of Genetics, Immunity and Stress (RESPOND) Study
Anticipated Total: $142,709
Effective Dates: 7/5/2018 – 6/30/2019
**Principal Investigator:** Larry H. Matherly, Ph.D.  
**Sponsor:** National Institutes of Health - NIH  
**Title:** Training Program in the Biology of Cancer  
**Anticipated Total:** $268,818  
**Effective Dates:** 9/1/2018 – 8/31/2019

**Principal Investigator:** Nerissa Therese Viola-Villegas, Ph.D.  
**Sponsor:** National Institutes of Health - NIH  
**Title:** Delineating Functional Immunity via Image-Guided PET  
**Anticipated Total:** $566,226  
**Effective Dates:** 7/1/2018 – 6/30/2023

**Pathology**

**Principal Investigator:** Rafael A. Fridman, Ph.D.  
**Sponsor:** U.S. Army Medical Research Acquisition Activity - USAMRAA  
**Title:** Disrupting Collagen-Mediated Pro-Survival Pathways in Pancreatic Cancer  
**Anticipated Total:** $490,258  
**Effective Dates:** 8/1/2018 – 7/31/2020

**Pediatrics**

**Principal Investigator:** Thomas Joseph Forbes, M.D.  
**Sponsor:** Children's Hospital of Michigan Foundation  
**Title:** Development of Pediatric Device Modules for FDA Regulatory Post Approval Studies  
**Anticipated Total:** $112,898  
**Effective Dates:** 7/1/2018 – 6/30/2019

**Principal Investigator:** Nirupama Kannikeswaran, M.D.  
**Sponsor:** Children's Hospital of Michigan Foundation  
**Title:** Predictors of Failure of High Flow Nasal Cannula Oxygen Therapy in Children with Bronchiolitis  
**Anticipated Total:** $53,630  
**Effective Dates:** 7/18/2018 – 12/31/2019

**Principal Investigator:** Tej K. Mattoo, M.D.  
**Sponsor:** Children's Hospital of Michigan Foundation  
**Title:** Evaluation of body water status in children with hypertension by bioelectrical impedance analysis testing  
**Anticipated Total:** $62,500  
**Effective Dates:** 7/1/2018 - 6/30/2019

**Principal Investigator:** Sureyya Savasan, M.D.  
**Sponsor:** Children's Hospital of Michigan Foundation  
**Title:** Identification and Significance of Leukemic Sub-clones including Leukemia Stem Cells in Childhood Acute Leukemias  
**Anticipated Total:** $52,729  
**Effective Dates:** 7/18/2018 – 6/30/2019
Principal Investigator: Usha Sethuraman, M.D
Sponsor: Children's Hospital of Michigan Foundation
Title: Impact of an Electronic Alert System on screening for suspected physical abuse in children less than 2 years in the Emergency Department
Anticipated Total: $67,180
Effective Dates: 7/27/2018 – 12/31/2019

Pharmacology

Principal Investigator: Karin List, Ph.D.
Sponsor: National Cancer Institute - NCI
Title: Tumor-promoting functions of TMPRSS13 in breast cancer progression
Anticipated Total: $1,672,170
Effective Dates: 7/15/2018 – 6/30/2023

Physiology

Principal Investigator: Charles S. Chung, Ph.D.
Sponsor: American Heart Association/National Center - AHA
Title: Mechanism and Diagnosis of Diastolic Dysfunction (and HFpEF) via Strain Rate-Dependent Impaired Relaxation
Anticipated Total: $300,000
Effective Dates: 7/1/2018 – 6/30/2021

Principal Investigator: Jason H. Mateika, Ph.D.
Sponsor: National Institutes of Health - NIH
Title: Mild intermittent hypoxia and CPAP: A multi-pronged approach to treat sleep apnea in intact and spinal cord injured humans.
Anticipated Total: $385,000
Effective Dates: 9/25/2018 – 8/31/2019

Principal Investigator: Robert John Wessells, Ph.D.
Sponsor: National Institute on Aging - NIA
Title: Octopamine controls adaptation to endurance exercise in Drosophila
Anticipated Total: $1,694,000
Effective Dates: 9/30/2018 – 5/31/2023

Psychiatry

Principal Investigator: Alireza Amirsadri, M.D.
Sponsor: Michigan Health Endowment Fund
Title: Team Based Telemedicine
Anticipated Total: $441,686
Effective Dates: 9/1/2018 – 8/31/2020
Principal Investigator: Mark K. Greenwald, Ph.D.
Sponsor: Kids Kicking Cancer
Title: Heroes Circle Opioid Project 2018
Anticipated Total: $90,318
Effective Dates: 8/1/2018 – 6/30/2019

Principal Investigator: Mark K. Greenwald, Ph.D.
Sponsor: National Institute on Drug Abuse - NIDA
Title: Opioid/benzodiazepine Polydrug Abuse Integrating Research on Mechanisms Treatment and Policies
Anticipated Total: $203,023
Effective Dates: 9/30/2018 – 8/31/2020

Principal Investigator: Tanja Jovanovic, Ph.D.
Sponsor: University of North Carolina at Chapel Hill
Title: Longitudinal Assessment of Post Traumatic Syndromes
Anticipated Total: $101,472
Effective Dates: 8/6/2018 – 7/31/2019

Radiation Oncology

Principal Investigator: Jacob M. Burmeister, Ph.D.
Sponsor: Henry Ford Health Systems - HFHS
Title: Quantification and Management of Cardiac Motion in Radiation Therapy (Eric Morris)
Anticipated Total: $52,062
Effective Dates: 8/17/2018 – 8/16/2019

Principal Investigator: Jacob M. Burmeister, Ph.D.
Sponsor: Henry Ford Health Systems - HFHS
Title: Accurate Detection, Segmentation, Staging and Treatment Response of Cancer Treatment from Multiparametric MRI Images with Artificial Intelligence (Eric Carver)
Anticipated Total: $52,062
Effective Dates: 8/17/2018 – 8/16/2019

Radiology

Principal Investigator: Ewart Mark Haacke, Ph.D.
Sponsor: National Institutes of Health - NIH
Title: The next generation of vascular imaging using contrast-enhanced MICRO MRI
Anticipated Total: $728,405
Effective Dates: 9/30/2018 – 8/31/2019

Principal Investigator: Jiani Hu, Ph.D.
Sponsor: Henry Ford Health Systems – HFHS
Title: Interaction between glymphatic and vascular systems for waste clearance in brain
Anticipated Total: $133,332
Effective Dates: 9/1/2018 – 5/31/2023
SCHOOL OF SOCIAL WORK

Deans Office Social Work - Social Work Instruction Un

Principal Investigator: Erin Bridget Comartin, Ph.D.
Sponsor: State of Michigan Department of Corrections
Title: SMART Reentry Evaluation
Anticipated Total: $134,509
Effective Dates: 7/1/2018 – 12/31/2020

Principal Investigator: Sheryl Marie Pimlott-Kubiak, Ph.D.
Sponsor: Michigan Department of Health and Human Services
Title: Stepping Up Technical Assistance
Anticipated Total: $350,000
Effective Dates: 7/1/2018 – 9/30/2018