SUBMITTED BY: TIMOTHY L. STEMLER, INTERIM VICE PRESIDENT FOR RESEARCH

NEW RESEARCH AWARDS OVER $100,000
APRIL 1, 2023 – JUNE 30, 2023

COLLEGE OF ENGINEERING

Chemical Engineering

PI Name: Harris, Carolyn
Grant Title: Investigating the source and the action behind shunt obstruction in the treatment of pediatric hydrocephalus
Sponsor: National Institute of Neurological Disorders and Stroke
Project Dates: 6/1/2023 – 5/31/2028
Anticipated Total: $2,678,253

Electrical & Computer Engineering

PI Name: Wang, Caisheng
Grant Title: Data-driven Community-centered Resilient Assessment and Planning Toolkit for Nexus of Energy and Water
Sponsor: U.S. Department of Energy
Project Dates: 5/1/2023 – 4/30/2025
Anticipated Total: $999,479

Engineering Technology

PI Name: Mao, Yanbing
Grant Title: Collaborative Research: CPS: Medium: Physics-Model-Based Neural Networks Redesign for CPS Learning and Control
Sponsor: National Science Foundation
Project Dates: 6/15/2023 – 5/31/2026
Anticipated Total: $296,254

COLLEGE OF LIBERAL ARTS AND SCIENCES

Public Health Program

PI Name: Miranda-Hartsuff, Patricia
Grant Title: Stigma Monitoring and Response System for Public Health Crises
Sponsor: CDC Foundation
Project Dates: 5/17/2023 – 7/31/2023
Anticipated Total: $281,365
Biological Sciences

PI Name: Schrader, Jared
Grant Title: Biomolecular Condensates as Organizers of Bacterial RNA Biology
Sponsor: National Institute of General Medical Sciences
Project Dates: 5/5/2023 – 3/31/2028
Anticipated Total: $1,844,620

Chemistry

PI Name: Bour, James
Grant Title: CAREER: Molecular Approaches for Understanding Defect-Porosity Relationships in Microporous Organic Polymers
Sponsor: National Science Foundation
Project Dates: 4/15/2023 – 3/31/2028
Anticipated Total: $773,778

PI Name: Pflum, Mary Kay
Grant Title: Helium Recovery Equipment for a Regional NMR and EPR Laboratory
Sponsor: National Institutes of Health
Project Dates: 5/1/2023 – 4/30/2024
Anticipated Total: $685,000

Physics

PI Name: Voloshin, Sergei
Grant Title: Relativistic Heavy Ion Research
Sponsor: U.S. Department of Energy
Project Dates: 5/1/2023 – 4/30/2024
Anticipated Total: $900,000

Psychology

PI Name: Rudolph, Cort
Grant Title: An investigation of scoring open-ended personality assessments within applicant contexts using natural language processing
Sponsor: Army Research Institute
Project Dates: 5/30/2023 – 2/28/2026
Anticipated Total: $209,847

EUGENE APPLEBAUM COLLEGE OF PHARMACY & HEALTH SCIENCES

Pharmaceutical Science

PI Name: Wanqing Liu
Grant Title: Interaction between Genome and Heavy Metals in Nonalcoholic Fatty Liver Disease
Sponsor: National Institute of Environmental Health Sciences
Project Dates: 6/15/2023 – 3/31/2028
Anticipated Total: $2,951,913
OFFICE OF THE PROVOST & ACADEMIC AFFAIRS

Center for Urban Studies

PI Name: Thompson, Thomas  
Grant Title: Detroit Youth Service Corps 2023  
Sponsor: Marathon Petroleum Foundation  
Project Dates: 5/1/2023 – 5/1/2024  
Anticipated Total: $180,000

PI Name: Thompson, Thomas  
Grant Title: Detroit Vulnerable Community Enhanced Air Quality Network  
Sponsor: Asthma and Allergy Foundation of America - Michigan Chapter  
Project Dates: 6/1/2023 – 5/31/2025  
Anticipated Total: $116,240

DIVISION OF RESEARCH

Institute of Gerontology

PI Name: Sneed, Rodlescia  
Grant Title: Maximizing the Scalability of the Chronic Disease Self-Management Program (CDSMP) Among Older Adults in State Correctional Settings  
Sponsor: National Institute on Aging  
Project Dates: 4/15/2023 – 1/31/2028  
Anticipated Total: $594,236

SCHOOL OF MEDICINE

Internal Medicine

PI Name: Teena Chopra  
Grant Title: Improving Vaccination Rates Amongst Detroit Youth through Vaccine Ambassadors: Bridging Gaps through Hands-On Education  
Sponsor: Moderna, Inc.  
Project Dates: 6/21/2023 - 6/20/2025  
Anticipated Total: $100,000

Oncology

PI Name: Wu, Guojun  
Grant Title: Exploration of the immunosuppressive function of RBMS3/PRRX1 axis in TNBC  
Sponsor: National Cancer Institute  
Project Dates: 4/15/2023 – 3/31/2025  
Anticipated Total: $395,973
Ophthalmology, Visual and Anatomical Sciences

PI Name: Ibrahim, Ahmed
Grant Title: The Warburg Effect and Diabetic Retinopathy
Sponsor: National Eye Institute
Project Dates: 6/1/2023 – 5/31/2028
Anticipated Total: $1,925,000

Pediatrics

PI Name: Taub, Jeffrey
Grant Title: The paradox of myeloid leukemia of Down Syndrome
Sponsor: National Cancer Institute
Anticipated Total: $395,973

Pharmacology

PI Name: Jackson, Jennell
Grant Title: Biomedical Career Advancement Pipeline (BCAP) Program
Sponsor: Detroit Wayne Integrated Health Network
Project Dates: 5/1/2023 – 9/30/2023
Anticipated Total: $135,000

PI Name: Park, Joongkyu
Grant Title: Local synaptic protein biogenesis in tauopathy
Sponsor: Alzheimer’s Association
Project Dates: 4/1/2023 – 2/28/2026
Anticipated Total: $200,000

PI Name: Shen, Minhong
Grant Title: Targeting Tinagl1 to Enhance Immunotherapy Response in Lung Cancer
Sponsor: U.S. Department of Defense
Project Dates: 5/1/2023 – 3/31/2025
Anticipated Total: $538,792

VP FOR HEALTH AFFAIRS

PI Name: Hassan, Sonia
Grant Title: SOS Network Initial Infrastructure
Sponsor: Total Health Care Foundation
Project Dates: 5/1/2023 – 4/30/2024
Anticipated Total: $251,736