

**SUBMITTED BY:                   TIMOTHY L. STEMMLER, 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  
Project Dates: 6/9/2023 – 3/31/2025  
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