

SUBMITTED BY: EZEMENARI M. OBASI, PH.D., VICE PRESIDENT FOR RESEARCH

**NEW RESEARCH AWARDS OVER \$100,000
JANUARY 1, 2024 – MARCH 31, 2024**

COLLEGE OF ENGINEERING

Biomedical Engineering

PI Name: Bir, Cynthia
Grant Title: Low-cost Integrated Blast Acquisition Test Surrogate
Sponsor: Physical Sciences, Inc.
Project Dates: 8/18/2024 – 5/31/2025
Anticipated Total: \$328,667

Chemical Engineering

PI Name: Harris, Carolyn
Grant Title: Shunt Catheter Optimization in the Treatment of Hydrocephalus
Sponsor: U.S. Army Medical Research
Project Dates: 1/15/2024 – 1/14/2026
Anticipated Total: \$307,202

Civil & Environmental Engineering

PI Name: Shuster, William
Grant Title: Supporting resident writers and their environmental literacy toward a novel watershed management plan
Sponsor: Erb Family Foundation
Project Dates: 1/1/2024 – 12/31/2024
Anticipated Total: \$100,000

COLLEGE OF LIBERAL ARTS AND SCIENCES

Chemistry

PI Name: Chekmenev, Eduard
Grant Title: Plug-and-Play Hyperpolarized MRI of Metabolism on Clinical Scanners
Sponsor: Massachusetts General Hospital
Project Dates: 1/18/2024 – 12/31/2027
Anticipated Total: \$188,961

PI Name: Walker, Alice
Grant Title: CAREER: Computational Design of Fluorescent Proteins with Multiscale Excited State QM/MM Methods
Sponsor: National Science Foundation
Project Dates: 4/1/2024 – 3/31/2029
Anticipated Total: \$690,816

Economics

PI Name: Danagoulian, Shooshan
Grant Title: Seasonal Allergy Blues: Is Mental Health Worse on High Pollen Days?
Sponsor: American Foundation for Suicide Prevention
Project Dates: 1/1/2024 – 12/31/2025
Anticipated Total: \$125,000

Physics

PI Name: Ananna, Tonima
Grant Title: Updating the Unified Model of AGN based on X-ray detected Obscured AGN Populations
Sponsor: National Aeronautics and Space Administration
Project Dates: 2/29/2024 – 2/28/2027
Anticipated Total: \$289,802

COLLEGE OF NURSING

Dean's Office

PI Name: Neal, Donald
Grant Title: Out-of-School Time
Sponsor: State of Michigan Department of Education
Project Dates: 1/1/2024 – 9/30/2024
Anticipated Total: \$1,091,040

COLLEGE OF EDUCATION

PI Name: Shalhout, Fareed
Grant Title: IREX 2024 Mandela Washington Fellowship for Young African Leaders (YALI)
Sponsor: Irex
Project Dates: 1/15/2024 – 9/15/2024
Anticipated Total: \$197,560

OFFICE OF THE PROVOST & ACADEMIC AFFAIRS**Center for Urban Studies**

PI Name: Thompson, Thomas
 Grant Title: Gordie Howe Windsor Detroit Bridge Authority
 Sponsor: Gordie Howe Windsor-Detroit Bridge Authority
 Project Dates: 4/1/2024 – 3/31/2025
 Anticipated Total: \$638,283

SCHOOL OF MEDICINE**Center for Molecular Medicine and Genetics**

PI Name: Huettemann, Maik
 Grant Title: Product Development and Human Feasibility Trial of Novel Non-invasive Device for Effective Treatment of Tinnitus
 Sponsor: MTRAC for Life Sciences Innovation Hub
 Project Dates: 4/1/2024 – 3/31/2025
 Anticipated Total: \$143,750

PI Name: Huettemann, Maik
 Grant Title: Cytochrome c acetylation drives prostate cancer aggressiveness and Warburg effect
 Sponsor: U.S. Department of Defense
 Project Dates: 2/1/2024 – 1/31/2027
 Anticipated Total: \$1,385,993

Obstetrics/Gynecology

PI Name: Alvero, Ayesha
 Grant Title: Mechanisms of immune surveillance in ovarian cancer
 Sponsor: Janet Burros Memorial Foundation
 Project Dates: 1/1/2024 – 12/31/2025
 Anticipated Total: \$248,068

PI Name: Pilsner, J.
 Grant Title: Sperm mitochondrial biomarkers and male reproductive health
 Sponsor: National Institute of Child Health and Human Development
 Project Dates: 2/20/2024 – 1/31/2029
 Anticipated Total: \$3,144,890

PI Name: Rodriguez Garcia, Marta
 Grant Title: Aging Compromises Neutrophil-Mediated Innate Protection Against HIV in the Human Female Genital Tract
 Sponsor: National Institute on Aging
 Project Dates: 2/15/2024 – 5/31/2025
 Anticipated Total: \$549,210

Oncology

PI Name: Jacob, Jennifer

Grant Title: Defining Cancer Intervention Targets by Functional Genomics Analysis of Outbred F1 Mice

Sponsor: National Cancer Institute

Project Dates: 3/1/2024 – 2/28/2026

Anticipated Total: \$2,786,889

PI Name: Schwartz, Ann

Grant Title: Genetic Variation in Cancer Risk and Outcomes in African Americans

Sponsor: National Cancer Institute

Project Dates: 2/13/2024 – 1/31/2029

Anticipated Total: \$9,616,417

PI Name: Shekhar, Malathy Puthan

Grant Title: Elucidation of a novel transcriptional reprogramming-induced mechanism of endocrine resistance and therapeutic targeting

Sponsor: National Cancer Institute

Project Dates: 3/1/2024 – 3/31/2026

Anticipated Total: \$395,973

PI Name: Thompson, Hayley

Grant Title: Wayne State University Center for Health Equity and Community Knowledge in Urban Populations (CHECK-UP)

Sponsor: CVS Pharmacy, Inc

Project Dates: 1/1/2024 – 12/31/2024

Anticipated Total: \$600,000

Ophthalmology, Visual and Anatomical Sciences

PI Name: Yu, Fu-Shin

Grant Title: Role of Programmed Cell Death Pathways in Bacterial Keratitis

Sponsor: National Eye Institute

Project Dates: 3/1/2024 – 2/28/2029

Anticipated Total: \$2,167,882

Physiology

PI Name: Mendez, Mariela

Grant Title: Novel mechanism of activation of the Renin-Angiotensin-System by inflammatory cells in diabetic kidney disease

Sponsor: National Institute of Diabetes, Digestive & Kidney Diseases

Project Dates: 1/25/2024 – 12/31/2026

Anticipated Total: \$577,500

Psychiatry and Behavioral Neurosciences

PI Name: Perrine, Shane

Grant Title: Biochemical and behavioral analysis of TACTOGEN compounds with MDMA-like properties

Sponsor: Tactogen

Project Dates: 2/19/2024 – 2/20/2025

Anticipated Total: \$175,826

Surgery

PI Name: Shanti, Christina

Grant Title: Pediatric General Surgery Research Infrastructure Grant

Sponsor: The Children's Foundation

Project Dates: 1/1/2024 – 12/31/2024

Anticipated Total: \$141,618

SCHOOL OF SOCIAL WORK

PI Name: Larson, Matthew

Grant Title: Wayne County Department of Health, Human & Veteran Services & Naloxone Vending Machine Implementation & Evaluation

Sponsor: Wayne County

Project Dates: 1/1/2024 – 12/31/2027

Anticipated Total: \$3,678,419

VP FOR HEALTH AFFAIRS

PI Name: Hassan, Sonia

Grant Title: Synergy of Scholars for Maternal and Infant Health Equity in Michigan (The SOS Maternity) Sponsor: State of Michigan Dept. of Health & Human Services - MDHHS

Project Dates: 2/1/2024 – 9/30/2024

Anticipated Total: \$8,000,000