NEW RESEARCH AWARDS
JULY THROUGH SEPTEMBER, 2020 – QUARTER FOUR FY 2020

COLLEGE OF EDUCATION

Administration & Organization

Principal Investigator: Sarah Winchell Lenhoff
Award Period: 8/1/2020 to 7/31/2023
Anticipated Total: $400,000
Sponsor: The Spencer Foundation
Project Title: Reducing Chronic Absenteeism, Increasing Opportunity: A School-Community-Research Partnership to Improve Policy and Practice Related to Attendance in Detroit

Principal Investigator: Sarah Winchell Lenhoff
Award Period: 9/1/2020 to 9/2/2021
Anticipated Total: $200,000
Sponsor: Skillman Foundation
Project Title: Detroit Education Research Partnership

Dean’s Office

Principal Investigator: Roland S Coloma
Award Period: 7/1/2020 to 10/31/2021
Anticipated Total: $100,000
Sponsor: Schultz Family Foundation
Project Title: Shifting Urban Narratives

Kinesiology, Health and Sports Studies

Principal Investigator: Rachael Denise Dombrowski
Award Period: 9/1/2020 to 9/30/2023
Anticipated Total: $375,213
Sponsor: U.S. Department of Agriculture - USDA
Project Title: Great Grocer Project

Principal Investigator: Andria Eisman
Award Period: 8/18/2020 to 1/31/2024
Anticipated Total: $638,187
Sponsor: National Institutes of Health - NIH
Project Title: Preventing Substance Use Among Youth: Behavioral and Economic Impact of Enhanced Implementation Strategies for Communities
Principal Investigator: Leah Ross Ketcheson  
Award Period: 9/1/2020 to 8/31/2022  
Anticipated Total: $500,000  
Sponsor: Michigan Health Endowment Fund  
Project Title: Physical Literacy And Nutrition Education (PLANE)  

**Teacher Education**

Principal Investigator: Anna G. Miller  
Award Period: 7/1/2020 to 6/30/2021  
Anticipated Total: $179,584  
Sponsor: Wayne County Regional Education Services Agency  
Project Title: Early Experiences for Urban Children: Four-Years-Old

**College of Engineering**

**Department of Biomedical Engineering**

Principal Investigator: Mohammad Mehrmohammadi  
Award Period: 8/1/2020 to 4/30/2024  
Anticipated Total: $1,679,470  
Sponsor: National Institutes of Health - NIH  
Project Title: Molecular, Functional, and Microstructural Imaging of Cervical Remodeling Biomarkers

**Department of Chemical Engineering**

Principal Investigator: Carolyn Anne Harris  
Award Period: 7/14/2020 to 2/28/2021  
Anticipated Total: $133,033  
Sponsor: Integra  
Project Title: Collaboration Round 1 with Integra: Testing Endexo Coating

Principal Investigator: Yinlun Huang  
Award Period: 9/1/2020 to 8/31/2022  
Anticipated Total: $219,998  
Sponsor: National Science Foundation - NSF  
Project Title: EAGER: Fundamental Study on Multistage Sustainability Assessment and Decision Making for Shaping Technology Innovations

Principal Investigator: Eranda Nikolla  
Award Period: 8/15/2020 to 8/14/2023  
Anticipated Total: $523,254  
Sponsor: U.S. Department of Energy - DOE  
Project Title: Tuning Catalytically Active Single Sites in Non-stoichiometric, Mixed Metal Oxides for Oxygen Electrocatalysis
**Department of Civil and Environmental Engineering**

Principal Investigator: Esref Emrah Kazan  
Award Period: 9/30/2020 to 9/30/2021  
Anticipated Total: $122,380  
Sponsor: Occupational Safety and Health Administration - OSHA  
Project Title: Residential Construction Safety and Health Awareness Training

Principal Investigator: Yongli Zhang  
Award Period: 8/1/2020 to 7/31/2022  
Anticipated Total: $195,000  
Sponsor: Great Lakes Water Authority  
Project Title: The Occurrence and Fate of Microplastics in Wastewater and Drinking Water Treatment Systems

**Department of Computer Science**

Principal Investigator: Abu Sayeed Muhammad Saifullah  
Award Period: 10/1/2020 to 6/30/2023  
Anticipated Total: $500,000  
Sponsor: National Science Foundation - NSF  
Project Title: CNS Core: Small: Low-Power Wide-Area Networks for Industrial Automation

Principal Investigator: Weisong Shi  
Award Period: 7/1/2020 to 6/30/2021  
Anticipated Total: $150,000  
Sponsor: National Science Foundation - NSF  
Project Title: RAPID: CORPUS: An Edge Intelligence-Assisted Multi-Granularity COVID-19 Risk Predication and Update System

**Department of Electrical and Computer Engineering**

Principal Investigator: Amar Sarbbasesh Basu  
Award Period: 9/1/2020 to 2/28/2022  
Anticipated Total: $100,000  
Sponsor: Michigan Health Endowment Fund  
Project Title: Preventing falls before they occur: Fall risk screenings for Detroit's older adults using novel technology
**COLLEGE OF LIBERAL ARTS AND SCIENCES**

**Department of Anthropology**

Principal Investigator: Andrea P. Sankar  
Award Period: 8/18/2020 to 12/30/2020  
Anticipated Total: $49,700  
Sponsor: Ford Motor Company  
Project Title: Promoting COVID19 Prevention in the Ford Community

**Department of Biological Sciences**

Principal Investigator: Glen Ray Hood  
Award Period: 9/30/2020 to 9/29/2021  
Anticipated Total: $108,908  
Sponsor: U.S. Department of Agriculture - USDA  
Project Title: Identification Resources for ECFF, Rhagoletis cerasi

**Department of Chemistry**

Principal Investigator: Stephanie L. Brock  
Award Period: 9/1/2020 to 8/31/2021  
Anticipated Total: $980,000  
Sponsor: National Science Foundation - NSF  
Project Title: MRI: Acquisition of a Field Emission Transmission Electron Microscope to Enable Multidisciplinary Materials Research, Education, and Outreach

Principal Investigator: Eduard Yurjevich Chekmenev  
Award Period: 7/15/2020 to 7/14/2023  
Anticipated Total: $1,732,500  
Sponsor: U.S. Department of Defense - DOD  
Project Title: Low-Cost, High-Throughput 3D Pulmonary Imaging Using Hyperpolarized Propane Gas

Principal Investigator: Eduard Yurjevich Chekmenev  
Award Period: 7/22/2020 to 6/30/2022  
Anticipated Total: $418,864  
Sponsor: National Institutes of Health - NIH  
Project Title: Hyperpolarized Diethyl Ether for Sub-second Pulmonary MRI

Principal Investigator: Wen Li  
Award Period: 7/15/2020 to 6/30/2023  
Anticipated Total: $534,969  
Sponsor: National Science Foundation - NSF  
Project Title: Probing Multi-electron Dynamics with Absolute CEP Dependent Strong Field Interaction
Principal Investigator: Wen Li  
Award Period: 9/1/2020 to 8/31/2023  
Anticipated Total: $675,000  
Sponsor: U.S. Department of Energy - DOE  
Project Title: Beating Electronic Decoherence

Principal Investigator: Zhenfei Liu  
Award Period: 9/1/2020 to 8/31/2022  
Anticipated Total: $110,000  
Sponsor: American Chemical Society  
Project Title: First-Principles Computational Study and Design of Metal-organic Frameworks for Separation of Small Hydrocarbons

Principal Investigator: Charles H. Winter  
Award Period: 7/1/2020 to 6/30/2021  
Anticipated Total: $110,000  
Sponsor: Basf Corporation  
Project Title: Atomic Level Deposition (ALD) process development of Ta, Ti, Mo, Co, Ni, W, Al, TaN or other elemental composition of relevance using novel reducing agents

**Department of Mathematics**

Principal Investigator: Steven Marshall Kahn  
Award Period: 8/18/2020 to 6/30/2021  
Anticipated Total: $213,000  
Sponsor: Detroit Public Schools - DPS  
Project Title: WSU Math Corps Math Literacy and High School Readiness Program 2020-2021

**Department of Physics**

Principal Investigator: Abhijit Majumder  
Award Period: 7/1/2020 to 6/30/2024  
Anticipated Total: $4,048,831  
Sponsor: National Science Foundation - NSF  
Project Title: Framework: The X-SCAPE collaboration: The X-ion collision with a Statistically and Computationally Advanced Program Envelope collaboration

Principal Investigator: Chun Shen  
Award Period: 7/15/2020 to 6/30/2023  
Anticipated Total: $255,086  
Sponsor: National Science Foundation - NSF  
Project Title: Quantitative Characterization of Quark-Gluon Plasma Properties with Dynamical Fluctuations
**Department of Psychology**

Principal Investigator: Lars Uriah Johnson  
Award Period: 9/1/2020 to 8/30/2021  
Anticipated Total: $199,537  
Sponsor: National Science Foundation - NSF  
Project Title: RAPID: The Impact of Being Policed Under Threat

**College of Nursing**

**Adult Health/Administration**

Principal Investigator: Cynthera Francisca McNeill  
Award Period: 7/1/2020 to 6/30/2023  
Anticipated Total: $1,494,660  
Sponsor: Health Resources & Services Administration - HRSA  
Project Title: Addressing St.I.G.M.A (Strategic Integration to Grow Mental Health Access)

**Graduate School**

Principal Investigator: Ashok Kumar  
Award Period: 7/1/2020 to 11/30/2020  
Anticipated Total: $517,896  
Sponsor: National Institutes of Health - NIH  
Project Title: ReBUILD Detroit Year 7

**Eugene Applebaum College of Pharmacy and Health Sciences**

**Department of Pharmaceutical Science**

Principal Investigator: Arun Kunchithapatham Iyer  
Award Period: 8/18/2020 to 7/31/2021  
Anticipated Total: $374,752  
Sponsor: National Institutes of Health - NIH  
Project Title: Nano Antibiotic Delivery for Treating MRSA Infections

**Office of the Provost and Academic Affairs**

**Center for Urban Studies**

Principal Investigator: Thomas Lyke Thompson  
Award Period: 10/1/2020 to 9/30/2021  
Anticipated Total: $340,076  
Sponsor: State of Michigan Department of Education - MDOE  
Project Title: Qualitative Compliance Information Project (Early On / Part C)
Principal Investigator: Thomas Lyke Thompson  
Award Period: 10/1/2020 to 9/30/2021  
Anticipated Total: $1,015,847  
Sponsor: State of Michigan Department of Education - MDOE  
Project Title: Research Support for Part B State Performance Plan / Annual Performance Report

Principal Investigator: Thomas Lyke Thompson  
Award Period: 10/1/2020 to 9/30/2021  
Anticipated Total: $237,735  
Sponsor: State of Michigan Dept. of Health & Human Services - MDHHS  
Project Title: VOCA Resources for Victim Assistance Programs – 2021

**Vice President for Academic Affairs**

Principal Investigator: Boris Baltes  
Award Period: 8/15/2020 to 9/30/2023  
Anticipated Total: $992,495  
Sponsor: National Science Foundation - NSF  
Project Title: Gender Equity, Advancement, and Retention in STEM (GEARS)

**DIVISION OF RESEARCH**

**Institute of Environmental Health Sciences**

Principal Investigator: Christopher Dennis Kassotis  
Award Period: 9/23/2020 to 7/31/2023  
Anticipated Total: $743,973  
Sponsor: National Institutes of Health - NIH  
Project Title: K99/R00 - Kassotis grant transfer

Principal Investigator: Douglas Mark Ruden  
Award Period: 9/1/2020 to 8/31/2021  
Anticipated Total: $321,606  
Sponsor: Michigan State University - MSU  
Project Title: PRENATAL EXPOSURES AND CHILD HEALTH OUTCOMES: A STATEWIDE STUDY

Principal Investigator: Douglas Mark Ruden  
Award Period: 9/1/2020 to 8/31/2021  
Anticipated Total: $205,778  
Sponsor: Michigan State University - MSU  
Project Title: Mitigating the Impact of Implicit Bias on Maternal Morbidity and Mortality for African American Women
**Institute of Gerontology**

Principal Investigator: Peter Alexander Lichtenberg  
Award Period: 7/1/2020 to 6/30/2021  
Anticipated Total: $255,351  
Sponsor: University of Michigan - U of M  
Project Title: Michigan Center for Urban African American Aging Research

**Merrill Palmer Skillman Institute**

Principal Investigator: Ann Michele Stacks  
Award Period: 10/1/2020 to 9/30/2022  
Anticipated Total: $499,778  
Sponsor: Michigan Health Endowment Fund  
Project Title: Promoting Resilience among Maltreated Young Children: Creating and Sustaining a Collaborative Court Team Workforce using Technology-Based Cross Training

**Office of the Vice President for Research**

Principal Investigator: Phillip David Levy  
Award Period: 8/1/2020 to 9/30/2020  
Anticipated Total: $451,587  
Sponsor: State of Michigan Dept. of Health & Human Services - MDHHS  
Project Title: Mobile COVID Units: Pilot Program in Southeast Michigan

Principal Investigator: Phillip David Levy  
Award Period: 10/1/2020 to 9/30/2021  
Anticipated Total: $100,000  
Sponsor: Delta Dental of Michigan  
Project Title: PHOENIX Project- Delta

**SCHOOL OF MEDICINE**

**Department of Emergency Medicine**

Principal Investigator: James H. Paxton  
Award Period: 9/2/2020 to 5/31/2021  
Anticipated Total: $625,279  
Sponsor: Johns Hopkins University - JHU  
Project Title: Convalescent Plasma to Limit Coronavirus Associated Complications. CSSC-001/CSSC-004
Department of Family Medicine and Public Health Sciences

Principal Investigator: Angulique Yvette Outlaw
Award Period: 10/1/2020 to 9/30/2021
Anticipated Total: $110,767
Sponsor: State of Michigan Dept. of Health & Human Services - MDHHS
Project Title: Tobacco Use Reduction in People Living with HIV (TURP) Pilot Project

Principal Investigator: Elizabeth Kuhl Towner
Award Period: 8/1/2020 to 7/31/2021
Anticipated Total: $149,933
Sponsor: Patient-Centered Outcomes Research Institute - PCORI
Project Title: Developing and Evaluating a Community-Based System for Rapid Dissemination of Evidence-Based Information and Research Specific to COVID-19

Principal Investigator: Jinping Xu
Award Period: 7/1/2020 to 9/30/2021
Anticipated Total: $149,324
Sponsor: Patient-Centered Outcomes Research Institute - PCORI
Project Title: COVID 19 Best Practices to Engage Black Men in the Development of a Cancer Health Equity Research Agenda

Department of Internal Medicine

Principal Investigator: Jonathan A. Cohn
Award Period: 7/1/2020 to 6/30/2021
Anticipated Total: $319,082
Sponsor: University of Illinois Chicago
Project Title: MATEC - Midwest AIDS Training & Edu Ctr.

Department of Neurology

Principal Investigator: Evanthia Bernitsas
Award Period: 7/31/2020 to 1/8/2021
Anticipated Total: $911,608
Sponsor: Genentech, Incorporated
Project Title: Investigating the Effect of Ocrelizumab in African Americans with Relapsing MS: A Novel, Advanced Multimodal MRI and OCTA Study

Principal Investigator: Paula A. Dore-Duffy
Award Period: 9/28/2020 to 8/31/2021
Anticipated Total: $364,610
Sponsor: Mallinckrodt Inc.,
Project Title: Pericytes: A new target of Acthar
Principal Investigator: Robert P. Lisak,  
Award Period: 7/15/2020 to 6/30/2022  
Anticipated Total: $447,003  
Sponsor: National Institutes of Health - NIH  
Project Title: Molecular profiling of exosomes from multiple sclerosis B cells

Principal Investigator: Wazim Mohamed  
Award Period: 7/2/2020 to 5/31/2026  
Anticipated Total: $143,500  
Sponsor: University of Cincinnati  
Project Title: STATINS USE IN INTRACEREBRAL HEMORRHAGE PATIENTS

Department of Obstetrics and Gynecology

Principal Investigator: Daniel Allen Rappolee  
Award Period: 8/6/2020 to 8/5/2021  
Anticipated Total: $118,104  
Sponsor: Reproductive Stress (3M) Measurement, Mechanisms, and Manage  
Project Title: Stress forces huESC differentiation; confirmation as an accurate DevTox HTS.

Department of Oncology

Principal Investigator: Jennifer L. Beebe-Dimmer  
Award Period: 7/1/2020 to 6/30/2021  
Anticipated Total: $127,209  
Sponsor: University of Southern California - USC  
Project Title: Research on Prostate Cancer in Men of African Ancestry: Defining the Roles of Genetics, Immunity and Stress (RESPOND)

Principal Investigator: Lawrence E. Flaherty  
Award Period: 8/18/2020 to 7/31/2025  
Anticipated Total: $120,000  
Sponsor: Oregon Health and Science University  
Project Title: SWOG NCORP Research Base

Principal Investigator: Lauren Melissa Hamel  
Award Period: 9/1/2020 to 8/31/2025  
Anticipated Total: $844,500  
Sponsor: American Cancer Society - ACS  
Project Title: DISCO: A patient intervention to reduce the financial burden of cancer

Principal Investigator: Larry H. Matherly  
Award Period: 9/1/2020 to 8/31/2021  
Anticipated Total: $261,133  
Sponsor: National Cancer Institute - NCI  
Project Title: Training Program in the Biology of Cancer
Principal Investigator: Manohar Ratnam  
Award Period: 8/1/2020 to 7/31/2022  
Anticipated Total: $285,021  
Sponsor: Veterans Administration - VA  
Project Title: Induction of Senescence using Dexamethasone to Re-sensitize NSCLC to Anti-PD1 Therapy: A Phase I/II Clinical Trial

Principal Investigator: Ann Grossbart Schwartz  
Award Period: 8/15/2020 to 10/31/2020  
Anticipated Total: $448,778  
Sponsor: Information Management Services, Inc.  
Project Title: Cancer Registry Consultation with IMS

Principal Investigator: Ann Grossbart Schwartz  
Award Period: 9/1/2020 to 1/31/2021  
Anticipated Total: $153,988  
Sponsor: National Cancer Institute - NCI  
Project Title: The impact of the COVID-19 pandemic on African American cancer survivors and their caregivers

Principal Investigator: Rachel Elizabeth Sexton  
Award Period: 9/1/2020 to 8/31/2022  
Anticipated Total: $215,746  
Sponsor: U.S. Department of Defense - DOD  
Project Title: Unveiling the role of Nuclear Export Protein 1 (XPO1)-microRNA axis in Gastric Cancer

**Department of Ophthalmology, Visual and Anatomical Sciences**

Principal Investigator: Linda D. Hazlett  
Award Period: 9/30/2020 to 8/31/2024  
Anticipated Total: $1,540,000  
Sponsor: National Eye Institute - NEI  
Project Title: Attacking the Global Problem of Antimicrobial Resistance

Principal Investigator: Lalit Singh Pukhrambam  
Award Period: 9/30/2020 to 9/29/2021  
Anticipated Total: $308,000  
Sponsor: National Institutes of Health - NIH  
Project Title: TXNIP expression is critical in the development of early diabetic retinopathy

Principal Investigator: Nikhlesh Kumar Singh  
Award Period: 9/1/2020 to 4/30/2024  
Anticipated Total: $1,334,158  
Sponsor: National Institutes of Health - NIH  
Project Title: CELLULAR MECHANISMS OF PATHOLOGICAL RETINAL NEOVASCULARIZATION
Principal Investigator: Susmit Suvas
Award Period: 8/1/2020 to 7/31/2025
Anticipated Total: $1,886,249
Sponsor: National Eye Institute - NEI
Project Title: Role of Insulin-like growth factor binding proteins in the pathogenesis of herpes stromal keratitis.

Department of Pediatrics
Principal Investigator: Elizabeth Ann Secord
Award Period: 8/1/2020 to 11/30/2020
Anticipated Total: $125,992
Sponsor: Fred Hutchinson Cancer Research Center
Project Title: COVID-19 Prevention Network (CoVPN) Site Preparation

Department of Pharmacology
Principal Investigator: Kamiar Moin
Award Period: 8/13/2020 to 6/30/2025
Anticipated Total: $841,824
Sponsor: National Institutes of Health - NIH
Project Title: A stable path for a core based scientist to advance imaging and cytometry in basic and preclinical research at the Karmanos Cancer Institute

Principal Investigator: Joongkyu Park
Award Period: 8/1/2020 to 6/30/2022
Anticipated Total: $423,500
Sponsor: National Institutes of Health - NIH
Project Title: Cell-type-specific and high-resolution profiling of postsynaptic proteomes altered in Alzheimer’s disease model mice

SCHOOL OF SOCIAL WORK
School of Social Work Dean’s Office
Principal Investigator: Sheryl Marie Pimlott-Kubiak
Award Period: 9/28/2020 to 9/30/2023
Anticipated Total: $150,000
Sponsor: Washtenaw County Sheriff’s Office
Project Title: Bureau of Justice Assistance Project Evaluation - Washtenaw County

Principal Investigator: Poco Donna Kernsmith
Award Period: 9/30/2020 to 9/29/2025
Anticipated Total: $375,000
Sponsor: Centers for Disease Control and Prevention - CDC
Project Title: Creating Protective Environments through School Policy Development
Principal Investigator: Bradley R. Ray
Award Period: 8/1/2020 to 9/30/2020
Anticipated Total: $400,000
Sponsor: State of Michigan Dept. of Health & Human Services - MDHHS
Project Title: Treatment Ecosystems in Justice Settings - MI Opioid Data to Action