

U-M RESEARCH AWARD AND EXPENDITURES REPORT
JULY 2023

This report summarizes the overall trends in grant and contract activity across all three campuses of the University of Michigan through the first 11 months of Fiscal Year 2023, which ended May 31.

Research expenditures through the first 11 months of FY23 totaled \$1.63 billion, which is up 8.4 percent when compared to the first 11 months of FY22.

The number of research submissions through the first 11 months of FY23 was down 0.5 percent, but the value of those submissions increased 7.7 percent when compared to May 2022.

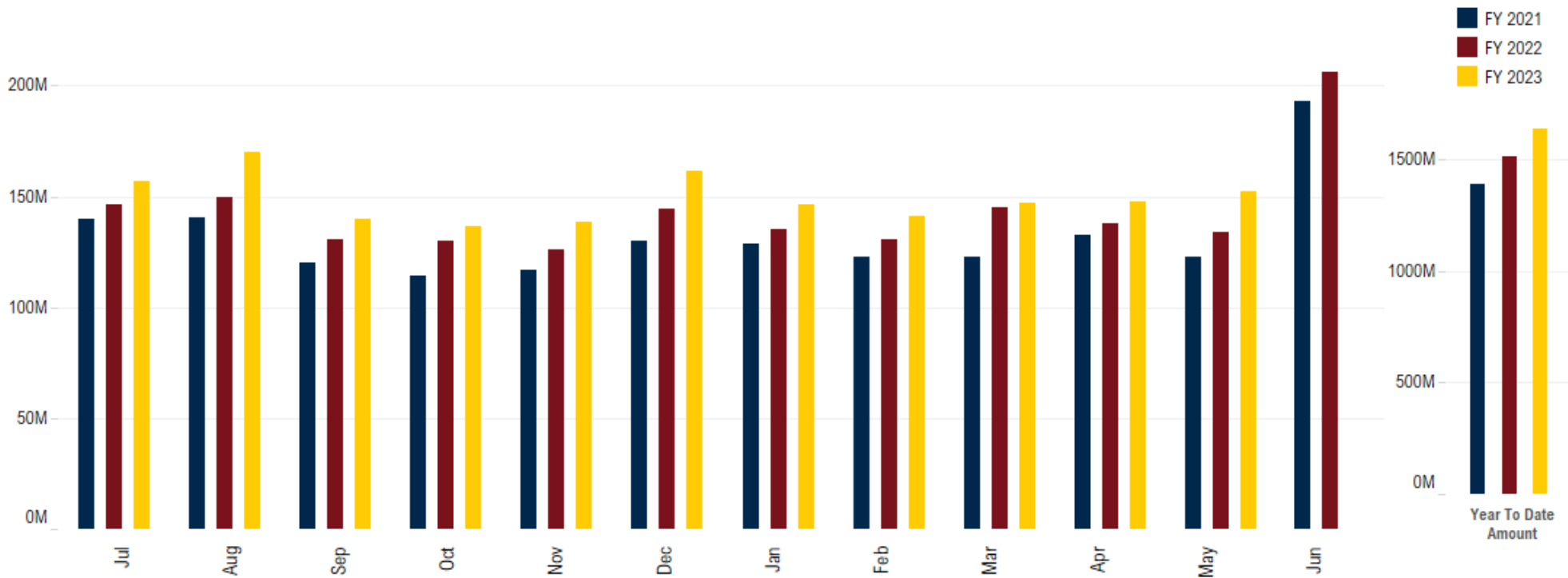
The number of new research awards from external sponsors through the first 11 months of FY23 increased 1.4 percent, and their value increased 5.6 percent when compared to May 2022.

Rebecca Cunningham, Vice President for Research

Shandra White, Assistant Vice President for Research – Sponsored Projects

Jason Owen-Smith, Executive Director, Research Analysis and Data Integration Office

Expenditures



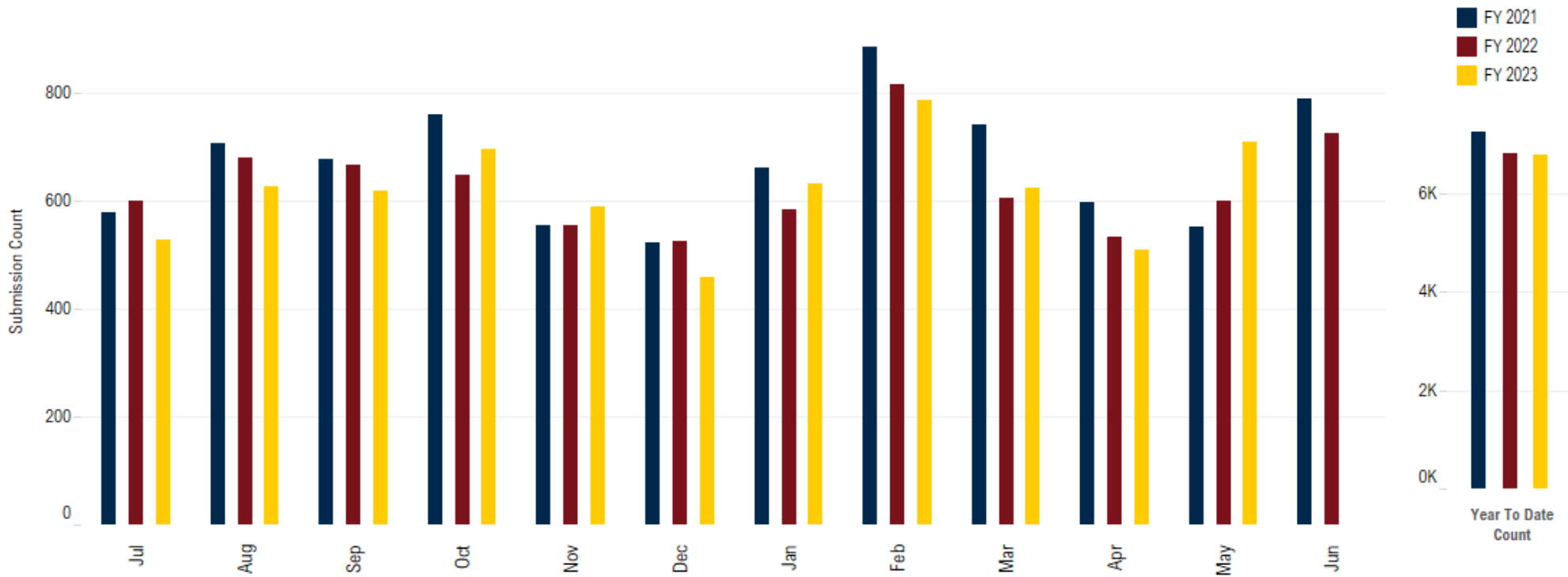
Year to Date

FY21: \$1,391,246,982

FY22: \$1,511,159,319

FY23: \$1,638,706,952

Submissions by Count



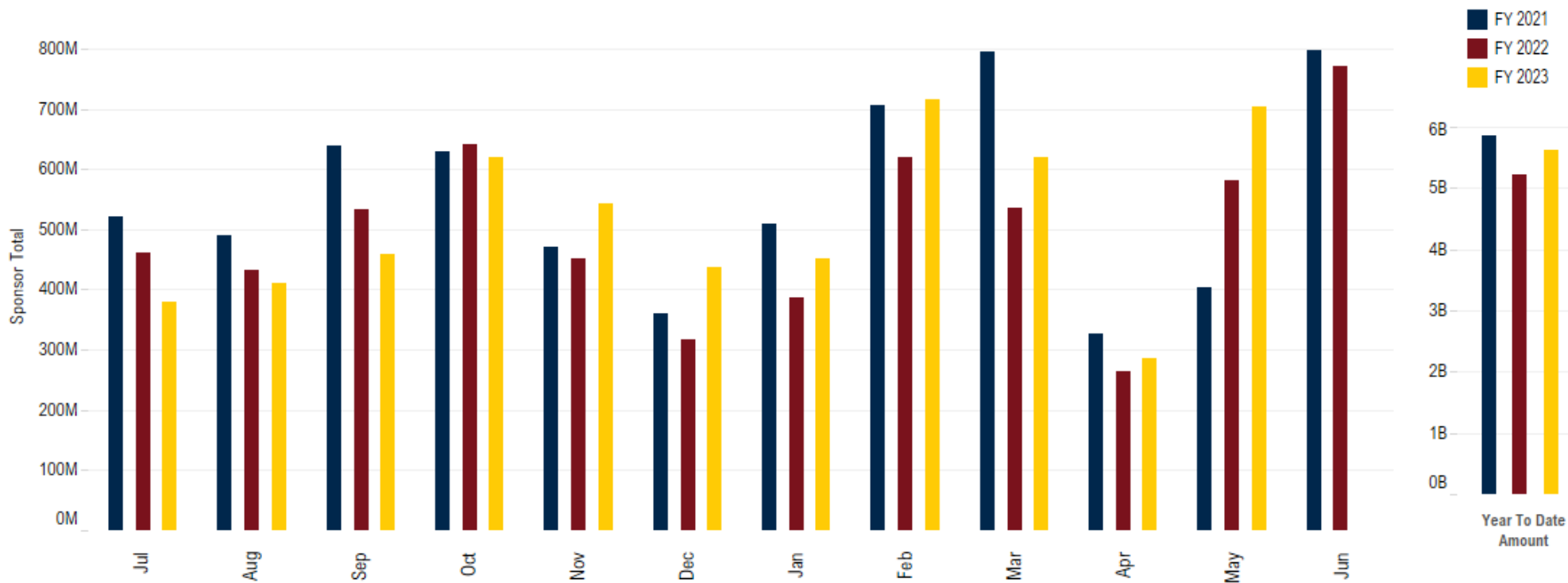
Year to Date

FY21: 7,232

FY22: 6,807

FY23: 6,771

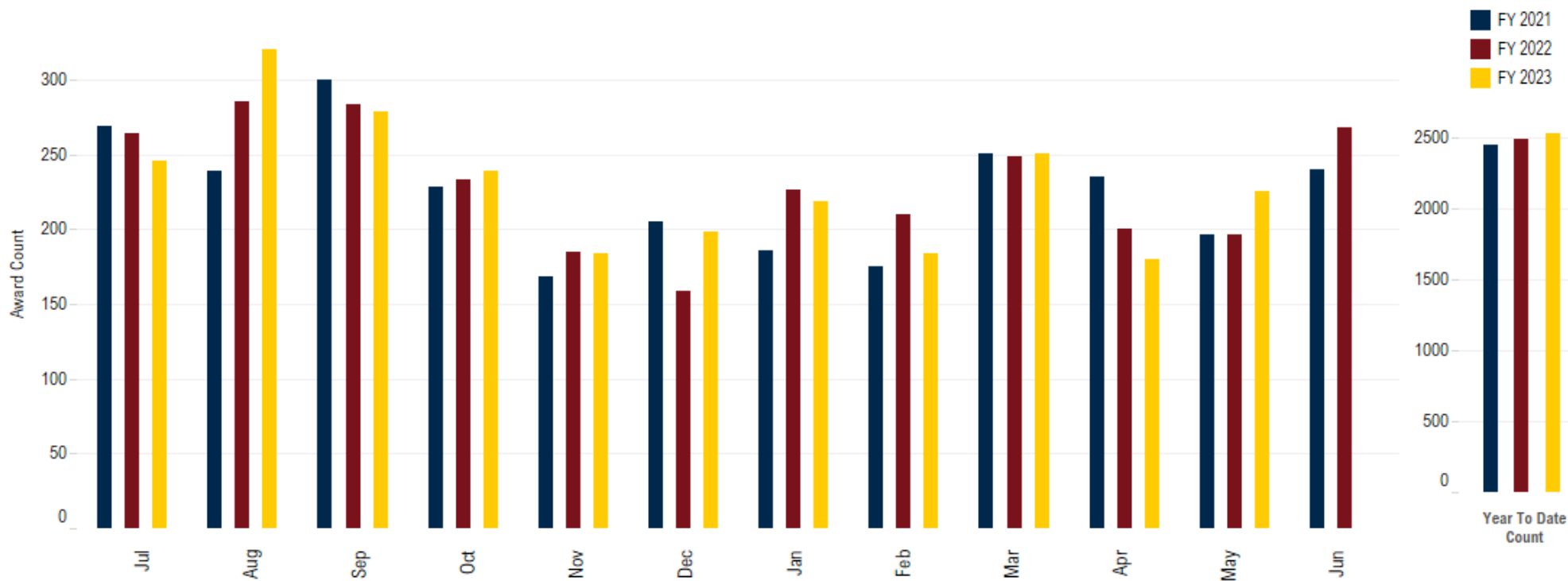
Submissions by Amount



Year to Date

FY21: \$5,847,470,514
 FY22: \$5,224,799,838
 FY23: \$5,626,628,448

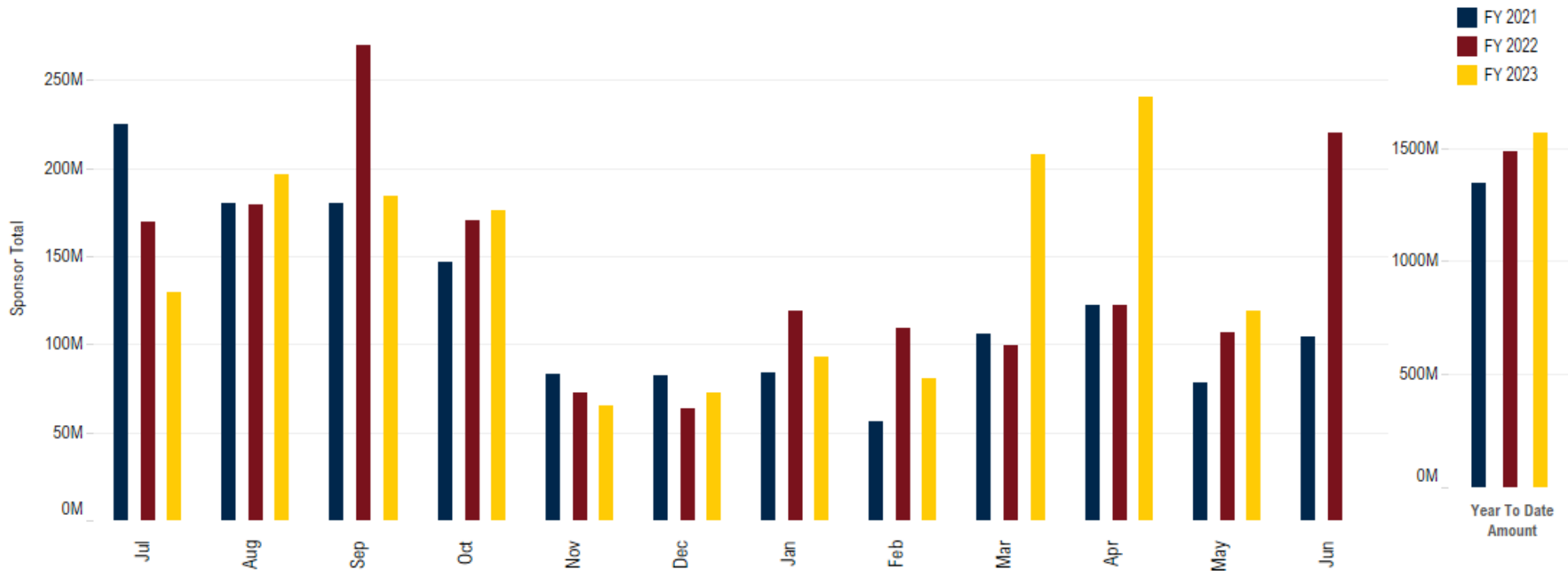
Awards by Count



Year to Date

FY21: 2,455
 FY22: 2,494
 FY23: 2,528

Awards by Amount



Year to Date

FY21: \$1,344,230,264

FY22: \$1,481,888,056

FY23: \$1,564,698,441

Top Monthly Awards

National Science Foundation

| Principal Investigator | Department | Award Title | Sponsor | Award Sponsor Total | Estimated Award Duration (years) |
|------------------------|--------------------------------|--|-----------------------------|---------------------|----------------------------------|
| Xu, Ying | MARSAL EDUC - Ed Studies | Building A Teacher-AI Collaborative System for Personalized Instruction and Assessment of Comprehension Skills | National Science Foundation | \$850,000 | 3.0 |
| Petersen, Sierra | LSA Earth & Environmental Sci. | CAREER: Quantifying Western Atlantic Climate and Seasonality across the Plio-Pleistocene Regional Molluscan Extinction | National Science Foundation | \$798,644 | 5.0 |
| Gorodetsky, Alex | Aerospace Engineering | CAREER: New foundations for multi-fidelity prediction, estimation, and learning under uncertainty in dynamical systems | National Science Foundation | \$721,021 | 5.0 |

National Institutes of Health

| Principal Investigator | Department | Award Title | Sponsor | Award Sponsor Total | Estimated Award Duration (years) |
|------------------------|-----------------------------|--|--|---------------------|----------------------------------|
| Gallagher, Katherine | MM Vascular Surgery Section | The epigenetic regulation of inflammation in tissue repair and vascular disease | Health and Human Services, Department of-National Institutes of Health | \$7,353,070 | 7.0 |
| Tessier, Peter | PHARMACY Pharmaceutical Sci | CD98hc Brain Shuttles for Delivering Off-The-Shelf Neuroprotective Antibodies in Alzheimer's Disease | Health and Human Services, Department of-National Institutes of Health | \$3,695,141 | 4.8 |
| Polenick, Courtney | MM Psych - Geriatric | Daily Experiences Among Couples Living With Early-Stage Dementia: Implications for Daily Sleep and Long-Term Well-Being and Cognitive Function | Health and Human Services, Department of-National Institutes of Health | \$3,646,563 | 4.7 |

Top Monthly Awards

Department of Defense

| Principal Investigator | Department | Award Title | Sponsor | Award Sponsor Total | Estimated Award Duration (years) |
|------------------------|----------------------------|---|---|---------------------|----------------------------------|
| Goldman, Rachel | Materials Science & Engin. | Hosting Exotic 1D Topological States with Dislocations | Defense, Department of-Air Force, Department of the | \$4,500,000 | 3.0 |
| Shorter, K Alex | Mechanical Engineering | Advancement of Attachment of Biologging Tags | Defense, Department of-Navy, Department of the | \$538,503 | 3.3 |
| Wang, Yixin | LSA Statistics | Towards Practical Causal Inference for Recommender Systems: Combinatorial Interventions, Complex Evaluations, and Robust Generalization | Defense, Department of-Navy, Department of the | \$420,000 | 3.0 |

Department of Energy

| Principal Investigator | Department | Award Title | Sponsor | Award Sponsor Total | Estimated Award Duration (years) |
|------------------------|--------------------------------|--|-----------------------|---------------------|----------------------------------|
| Jovanovic, Igor | Nuclear Eng & Radiological Sci | Ionizing Radiation Detection for Exploratory Experiments in Low-Energy Nuclear Reactions | Energy, Department of | \$902,213 | 2.5 |
| Kuranz, Carolyn | Nuclear Eng & Radiological Sci | Simulations of Radiation Hydrodynamics in Strongly Coupled Plasmas | Energy, Department of | \$207,604 | 1.0 |

Top Monthly Awards

Industry

| Principal Investigator | Department | Award Title | Sponsor | Award Sponsor Total | Estimated Award Duration (years) |
|------------------------|--------------------------------|---|---------------------------------------|---------------------|----------------------------------|
| Seeley, Randy | MM Surgery Department | Mechanisms Mediating the Hindbrain Control of Energy Balance | Eli Lilly and Company | \$2,104,226 | 4.0 |
| Pianko, Matthew | MM Int Med-Hematology/Oncology | A Phase 3 Randomized Study Comparing Talquetamab SC in Combination WithDaratumumab SC and Pomalidomide (Tal-DP) or Talquetamab SC in Combination WithDaratumumab SC (Tal-D) Versus Daratumumab SC, Pomalidomide and Dexamethasone(DPd), in Participants With Relapsed or Refractory Multiple Myeloma who Have Receivedat Least 1 Prior Line of Ther.. | Janssen Research and Development, LLC | \$1,304,359 | 7.0 |
| Adriaens, Peter | Civil & Environmental Engr | "FISH'N'CHIPS": Forecasting and Identifying Supply-and-demand Hindrances aNd Correlated Hazards In Procurement Systems | Stealth Software Technologies, Inc. | \$1,034,198 | 4.0 |

Nonprofits

| Principal Investigator | Department | Award Title | Sponsor | Award Sponsor Total | Estimated Award Duration (years) |
|------------------------|--------------------------------|---|-----------------------------------|---------------------|----------------------------------|
| Mitnik, Pablo | SRC-Center for Inequality Dyam | Measuring Racial Inequality in Tax Data | Bill and Melinda Gates Foundation | \$859,108 | 2.3 |
| Kaczorowski, Catherine | MM Neurology Department | SPI O'Connell: Integration of electrophysiological and transcriptomic signatures of cognitive resilience in the hippocampus using patch-seq | Simons Foundation | \$605,525 | 2.5 |
| Cernak, Timothy | PHARMACY Medicinal Chemistry | Merging Machine Learning and High-Throughput Experimentation in the Synthesis of Bedaquiline | Bill and Melinda Gates Foundation | \$396,966 | 2.1 |