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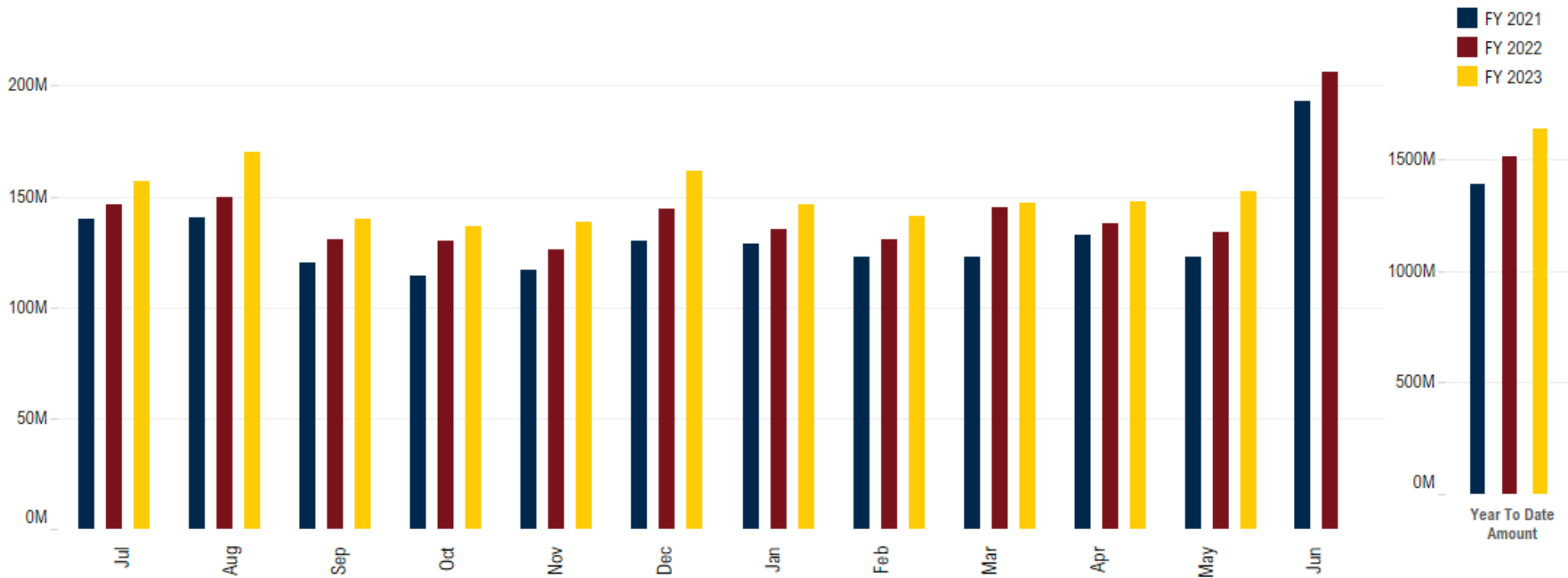
The number of new research awards from external sponsors through the first 11 months of FY23 increased 1.4 percent, and their value increased 5.6 percent when compared to May 2022.

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
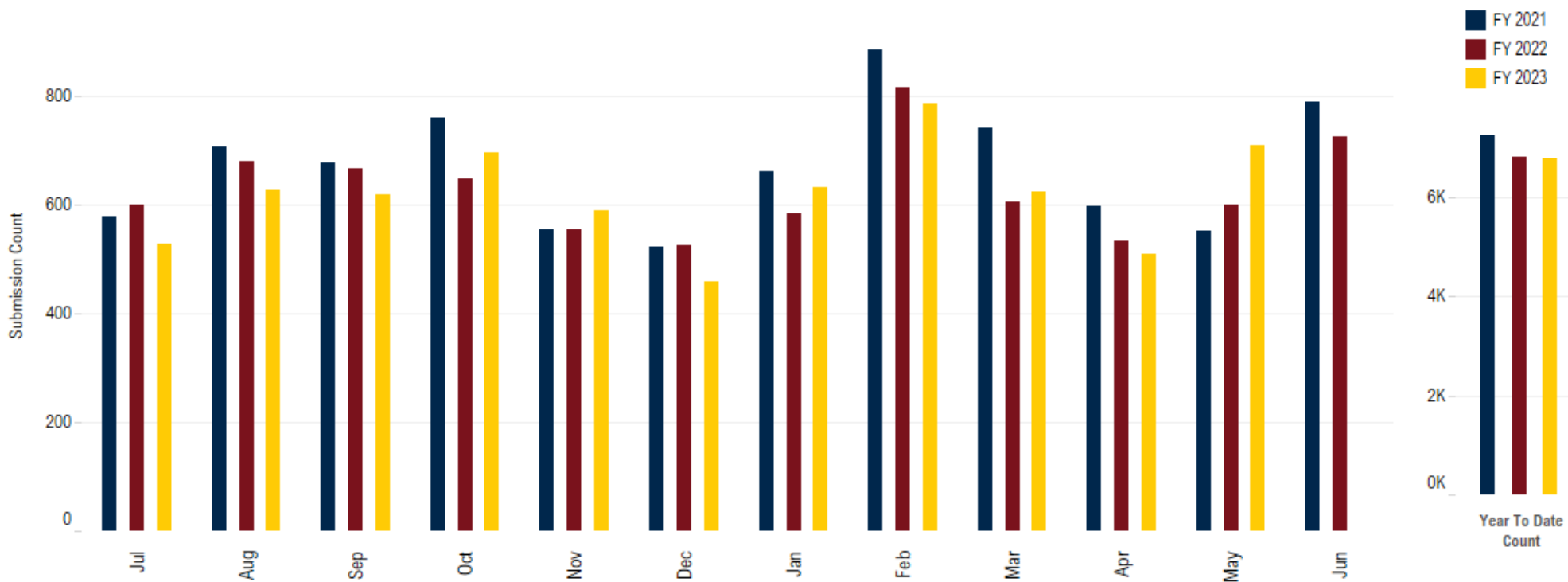
Expenditures

Year to Date

FY21: $1,391,246,982

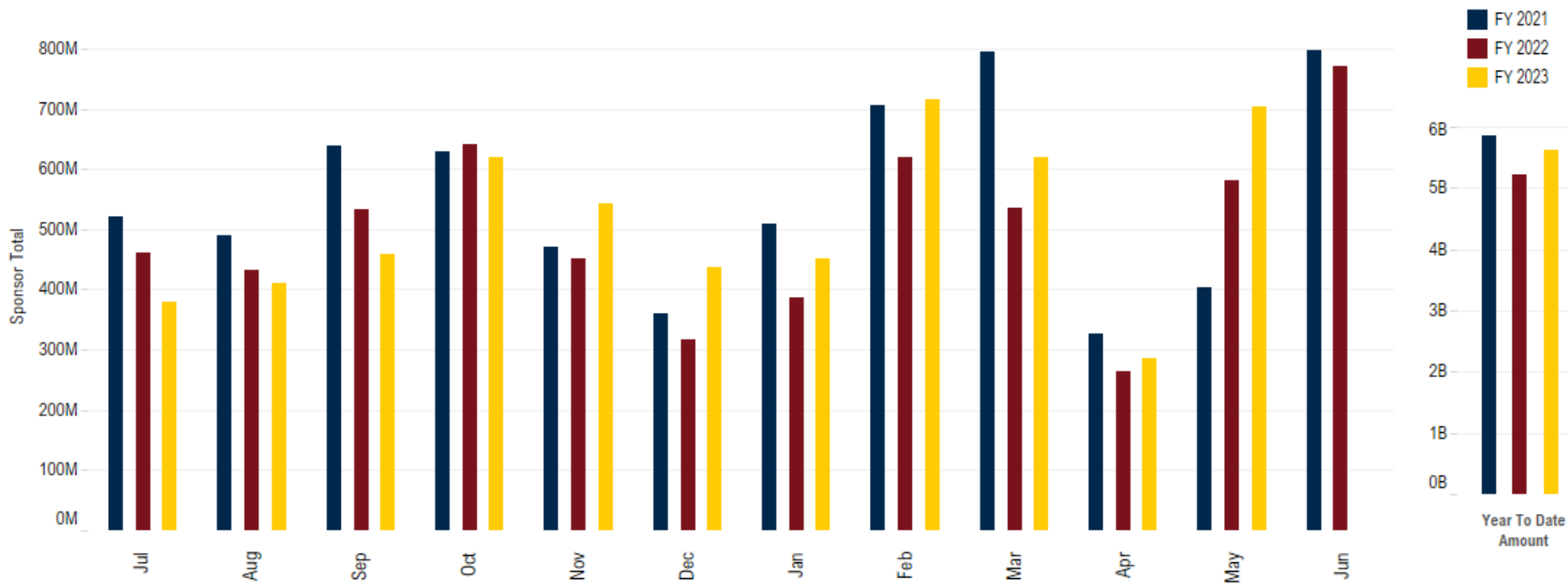FY22: $1,511,159,319

FY23: $1,638,706,952

Submissions by Count

Year to Date
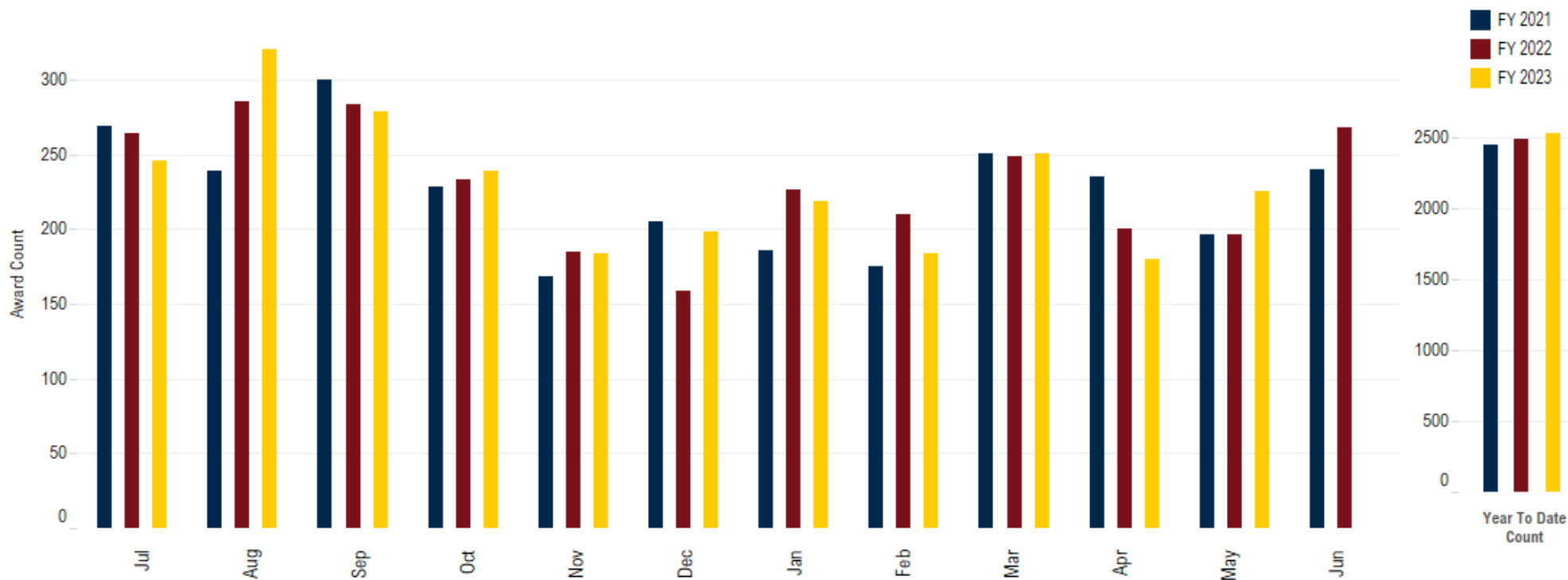
FY21: 7,232

FY22: 6,807

FY23: 6,771

Submissions by Amount

Year to Date

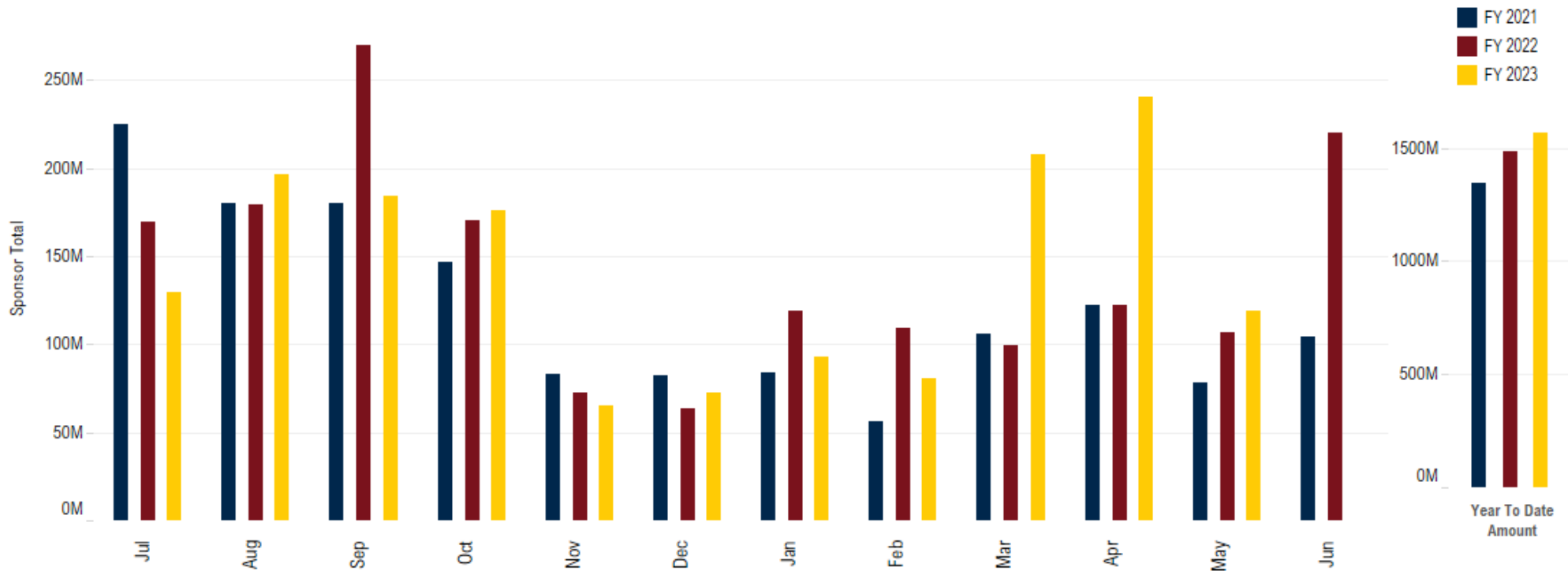FY21: $5,847,470,514

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