

U-M RESEARCH AWARD AND EXPENDITURES REPORT  
DECEMBER 2022

This report summarizes the overall trends in grant and contract activity across all three campuses of the University of Michigan through the fourth month of Fiscal Year 2023, which ended October 31.

Total research expenditures through the fourth month of FY23 totaled \$603 million, which is up 8.2 percent when compared to the fourth month of FY22.

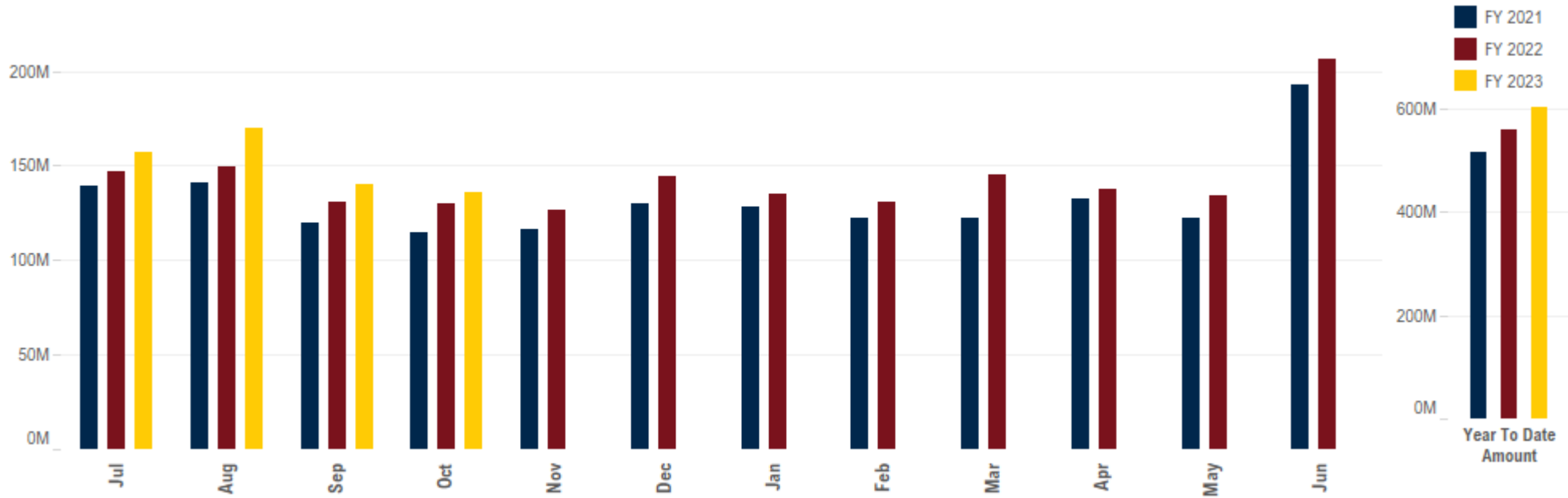
The number of research submissions through the fourth month of FY23 was down 4.9 percent, and the value of those submissions decreased 9.3 percent when compared to October 2021.

The number of new research awards from external sponsors through the fourth month of FY23 increased 2 percent, but their value decreased 15 percent when compared to October 2021.

Rebecca Cunningham, Vice President for Research

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

## Expenditures



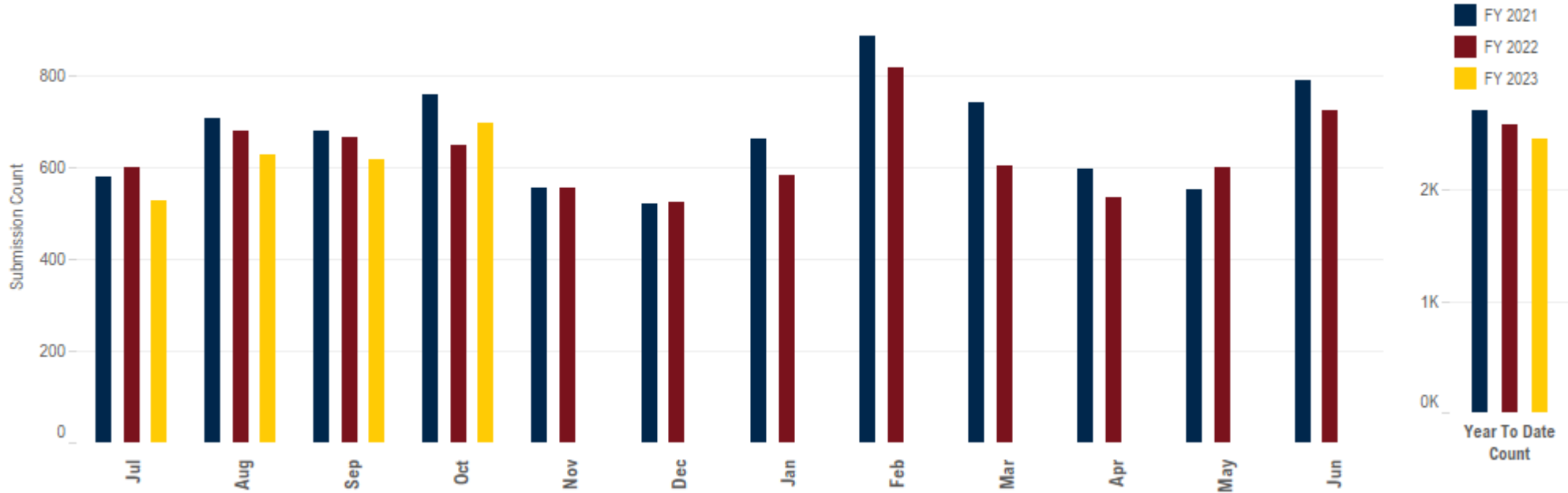
### Year to Date

FY21: \$515,218,265

FY22: \$557,282,984

FY23: \$603,113,714

## Submissions by Count



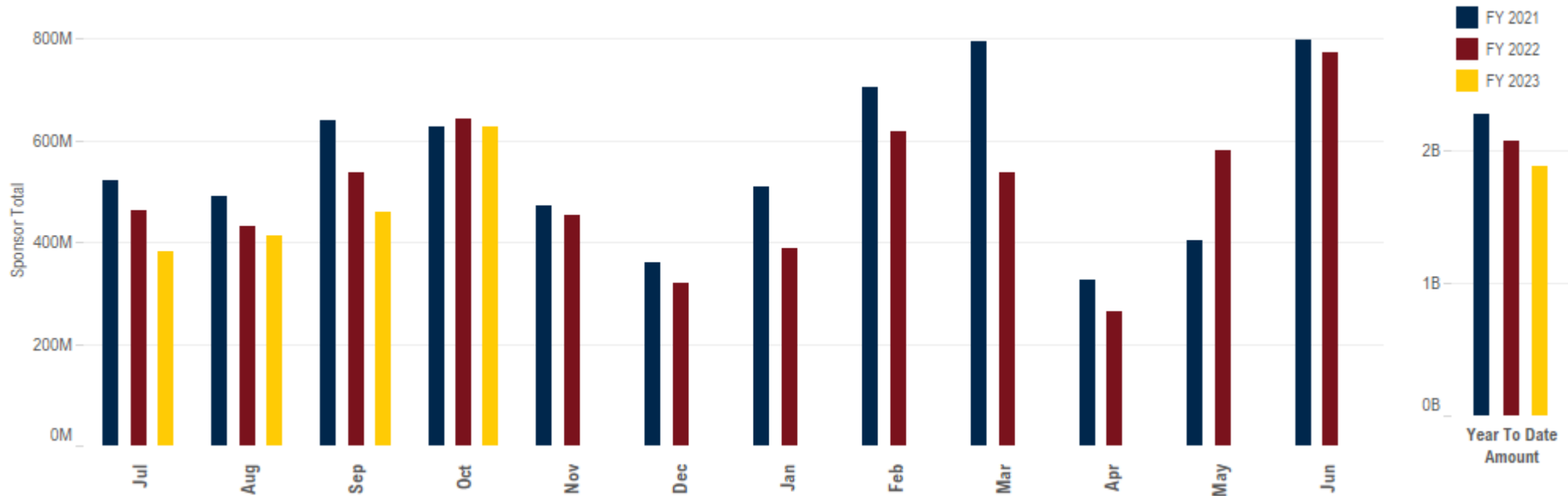
### Year to Date

FY21: 2,722

FY22: 2,592

FY23: 2,466

## Submissions by Amount



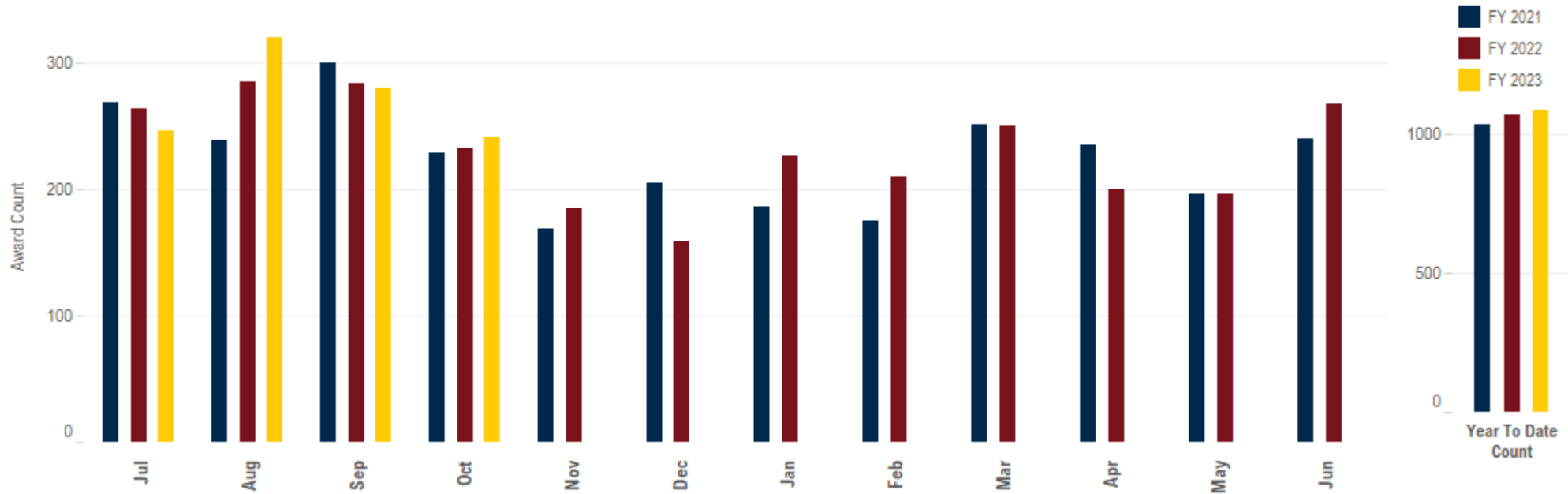
### Year to Date

FY21: \$2,277,715,361

FY22: \$2,071,826,745

FY23: \$1,880,134,602

### Awards by Count



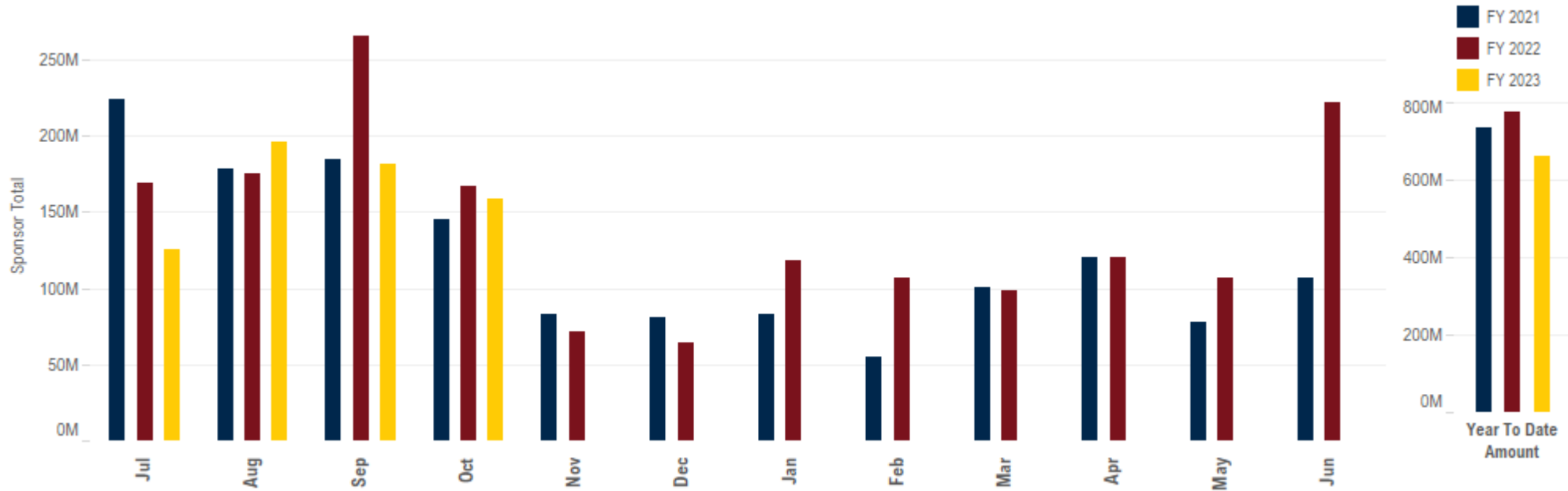
### Year to Date

FY21: 1,037

FY22: 1,067

FY23: 1,088

## Awards by Amount



### Year to Date

FY21: \$732,598,418

FY22: \$776,585,846

FY23: \$660,441,808

# Top Monthly Awards

## National Science Foundation

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
White, Nina	LSA Mathematics	The MaCSS Scholars Program at University of Michigan	National Science Foundation	\$1,500,000	6.0
Scruggs, Jeffrey	Civil & Environmental Engr	CPS: Medium: Autonomous Control of Self-Powered Critical Infrastructures	National Science Foundation	\$650,084	3.0
Zuo, Lei	Naval Arch & Marine Dept	INFEWS US-China: Creating Ocean Wave Powered Resilient FEW Systems in Saline Coastal Regions	National Science Foundation	\$310,344	0.9

## National Institutes of Health

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Kretzler, Matthias	MM Int Med-Nephrology	KPMP Kidney Mapping and Atlas Project (KMAP)	Health and Human Services, Department of-National Institutes of Health	\$9,799,998	4.8
Carter, Patrick	OVPR Inst for Firearm Inj Prev	University of Michigan Multi-disciplinary Coordinating Center for the Community Firearm Injury Prevention Network	Health and Human Services, Department of-National Institutes of Health	\$5,532,208	3.0
Chinnaiyan, Arul	MM Ctr fr Translational Path.	Michigan-VUMC Biomarker Characterization Center	Health and Human Services, Department of-National Institutes of Health	\$4,502,680	5.0

# Top Monthly Awards

## Department of Defense

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Forger, Daniel	LSA Mathematics	Understanding and Predicting Cognitive Fatigue across Multiple Timescales, Distinct Aspects of Cognition, and Different Individuals with Multiscale Whole Cortex Models	Defense, Department of-Army, Department of the	\$3,750,000	3.0
Glotzer, Sharon	Chemical Engineering Dept	3D Nanomaterial Architectures with Programmable Reconfiguration States and Functions	Defense, Department of-Army, Department of the-Subcontracts	\$900,000	5.2
Sodano, Henry	Aerospace Engineering	Interlaminar Behavior of Multifunctional Graphene Reinforced Composites	Defense, Department of-Army, Department of the	\$549,637	4.0

## Department of Energy

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Sakamoto, Jeff	Mechanical Engineering	Mechano-Chemical Understanding of Solid Ion Conductors (MUSIC)	Energy, Department of	\$10,321,730	4.0
Allen, Todd	Nuclear Eng & Radiological Sci	IRP-22-27979;Advancing Diffusion Bonding for Compact Heat Exchangers: Development of Enabling Fabrication Technology for Compact Heat Exchangers for Advanced Reactors	Energy, Department of	\$3,600,000	3.0
Lenert, Andrej	Chemical Engineering Dept	Design and Manufacturing of Transparent Refractory Insulation for Next-Generation Receivers	Energy, Department of	\$3,082,852	3.0





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# Top Monthly Awards

## Industry

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Reed, Matt	UMTRI-Biosciences	US Child Anthropometry Survey: Laboratory Pilot	Meta Platforms, Inc. (META)	\$1,958,706	1.5
Ghosh, Monalisa	MM Int Med-Hematology/Oncology	A Phase 2, Open-label, Multicenter Study of the Safety and Efficacy of TAK-007 in Adult Patients With Relapsed or Refractory B-cell Non-Hodgkin Lymphoma	Takeda Pharmaceutical Company Ltd	\$1,411,797	12.0
Mi, Zetian	COE EECS - ECE - SSEL	Core-Shell Photonic Crystal LED Structures for Enhanced Efficiency	NS Nanotech Inc.	\$950,000	1.2

## Nonprofits

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Durat (years)
Weeks, Brian	Sch for Environ and Sustain	Climate change adaptation: From pattern to process and prioritization	Packard, David and Lucile, Foundation	\$875,000	5.0
Zeoli, April	Health Management and Policy	Joyce Foundation - Grant Transfer	Joyce Foundation	\$421,500	2.5
Zeoli, April	Health Management and Policy	Domestic violence restraining order firearm restrictions: Do they improve restraining order petitioner safety in Minnesota?- Project#2	Joyce Foundation	\$250,102	2.5