

This report summarizes the overall trends in grant and contract activity across all three campuses of the University of Michigan through April 30, 2018. Figure 1 shows that total research expenditures through the first ten months of fiscal year 2018 are ahead of the previous year by 4.3 percent. It is important to note that total research expenditures for fiscal year 2017, which closed on June 30, 2017, reached a record high of \$1.48 billion.

The number of research submissions in April was up from April 2017, as shown in Figure 2, and total submissions for the year remain 3.5 percent ahead of our pace from the previous year. Figure 3 shows the value of those submissions is down 14.6 percent year to date compared to the first ten months of fiscal year 2017.

Figures 4 and 5 show the number of new research awards from external sponsors are up 4.2 percent, and their value has increased by 7 percent when compared to the previous fiscal year—led in April by a 5-year, \$6.7 million award to study the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes.

S. Jack Hu, Vice President for Research

Daryl Weinert, Associate Vice President for Research, Business Operations

Figure 1

Expenditures

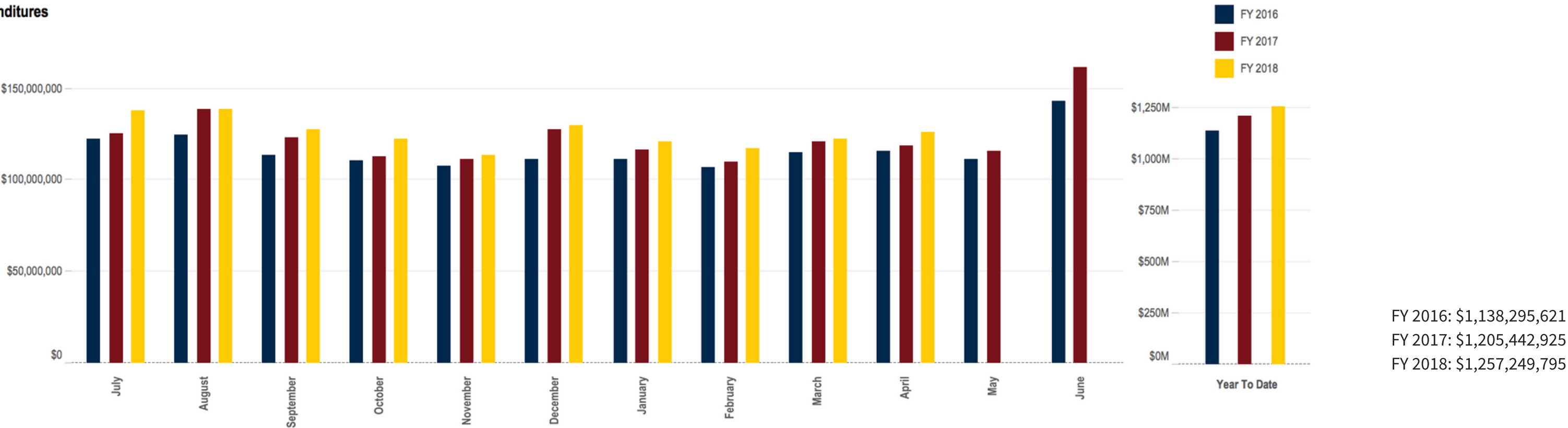


Figure 2

Submissions By Count

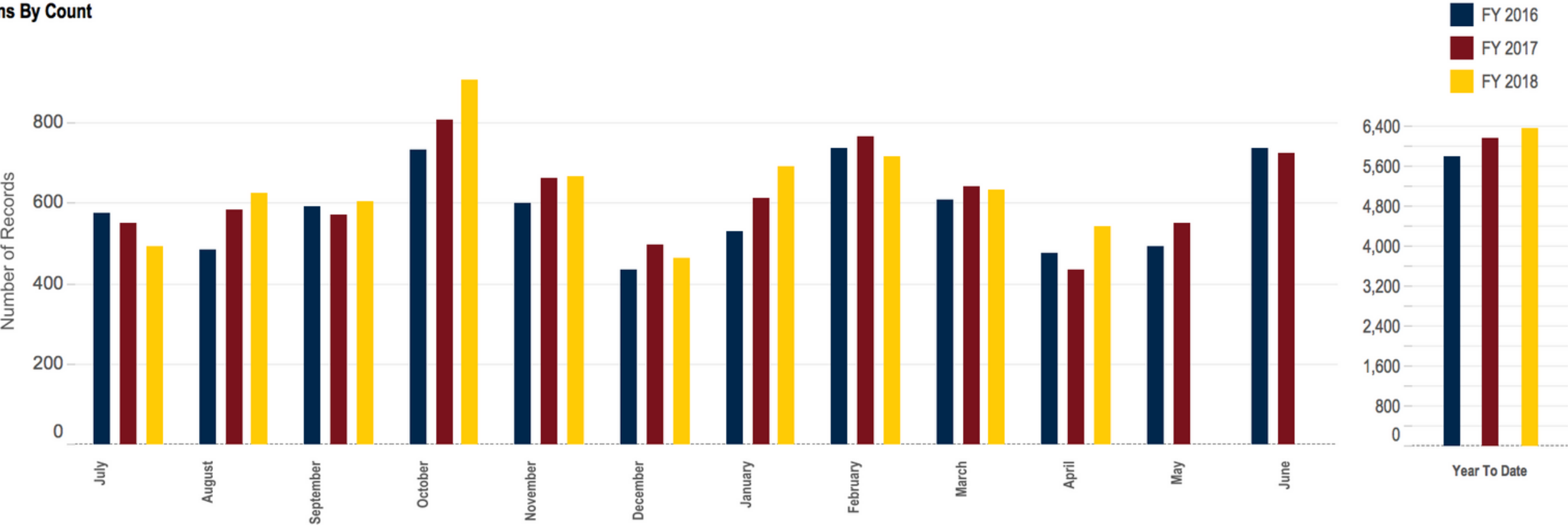


Figure 3

Submissions By Amount

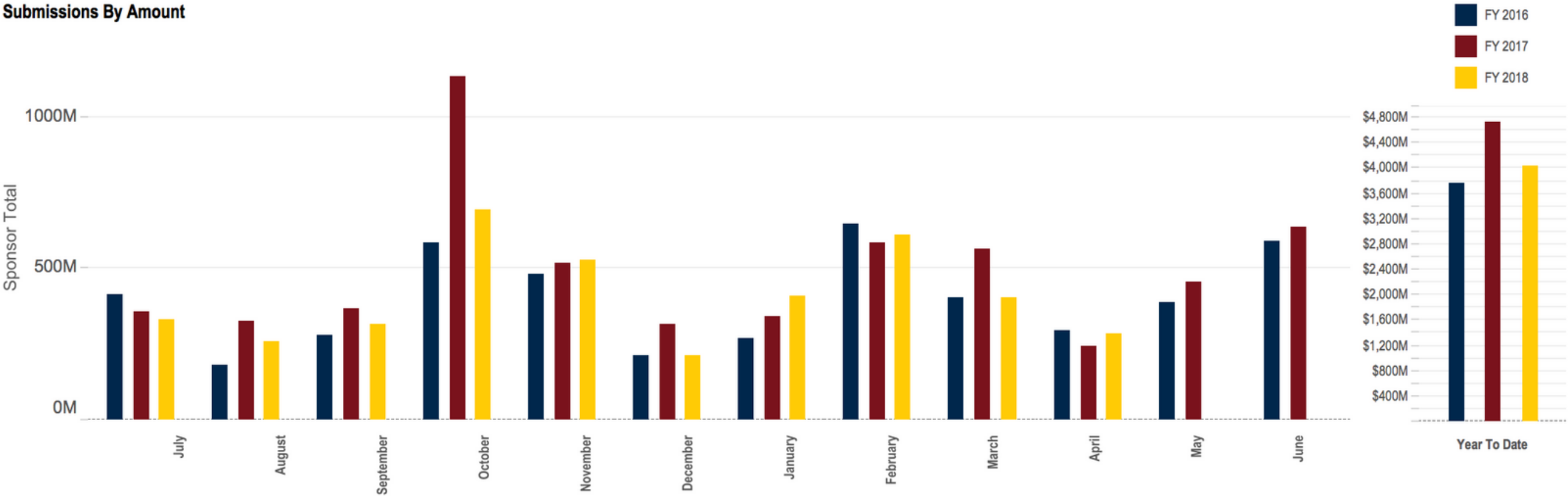


Figure 4

Awards By Count

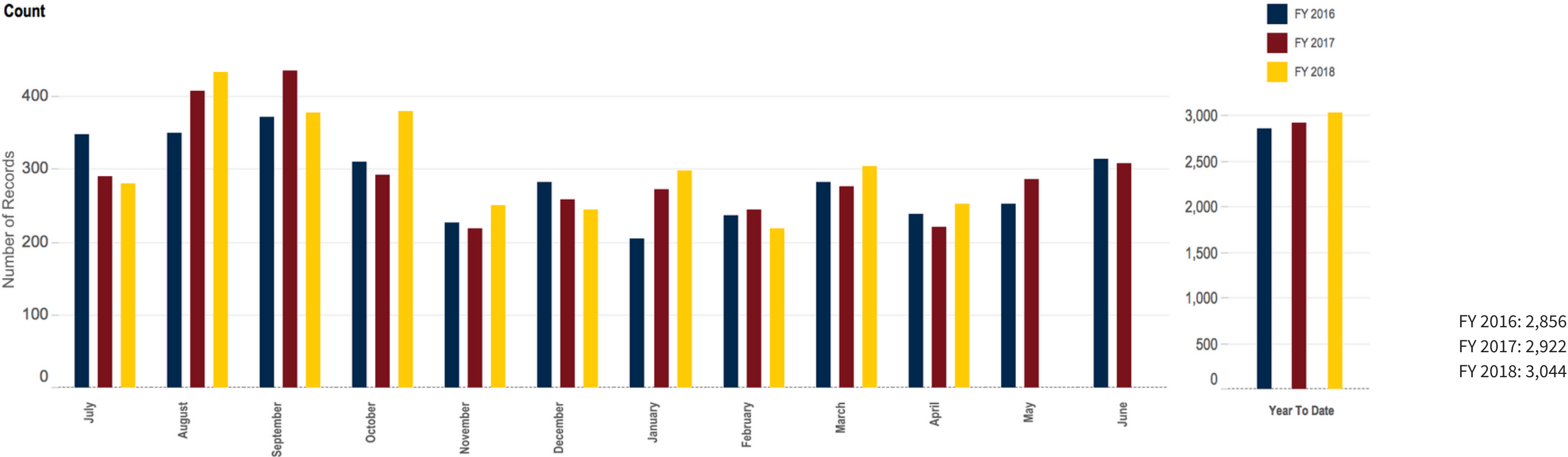


Figure 5

Awards By Amount

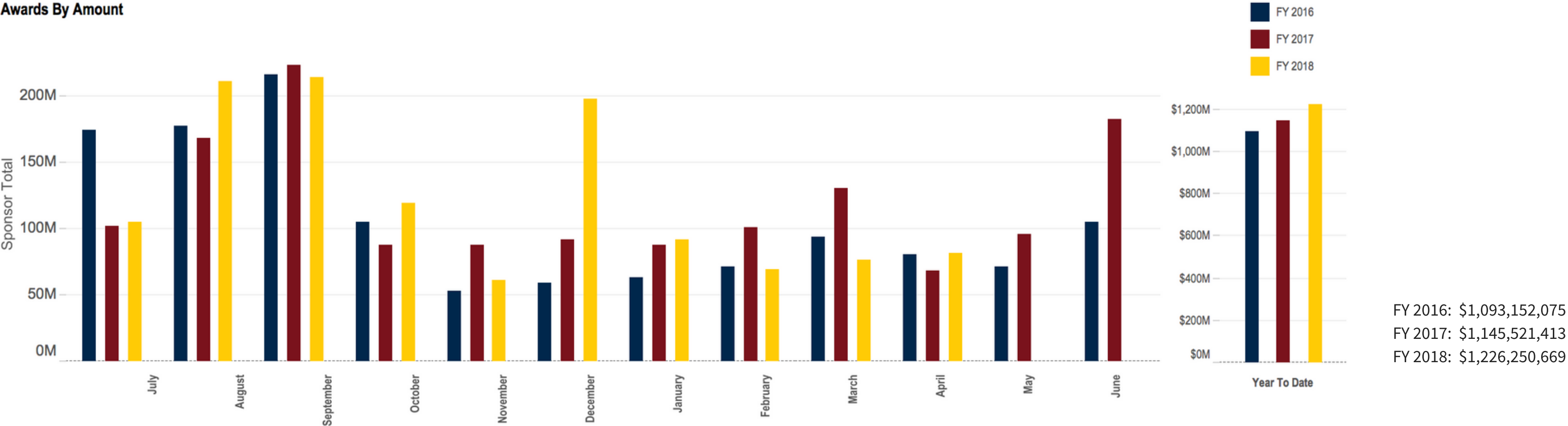


Figure 620 Largest Project Awards: April 2018

For a complete list, visit  
orsp.umich.edu/saw.

Principal Investigator	Department	Proposal Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Broglio, Steven	School of Kinesiology	CARE 2.0: A prospective, longitudinal study of the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes..	National Collegiate Athletic Association	\$6,661,720	5.4
Abecasis, Goncalo	Biostatistics Department	Trans-Omics for Precision Medicine (TOPMed) Informatics Research Center (IRC)	Health and Human Services, Department of-National Institutes of Health	\$5,974,904	5.0
Yang, Bo	Cardiac Surgery	Define the mechanisms of aortopathy in bicuspid aortic valve patients	Health and Human Services, Department of-National Institutes of Health	\$3,482,643	5.0
Martin, Andrew	LSA Social Solutions Center	Our Compelling Interests at the University of Michigan's Center for Social Solutions: Book Series on the Value of Diversity for Democracy and a Prosperous Society	Mellon, Andrew W., Foundation	\$3,000,000	5.2
Miller, Richard	Institute of Gerontology	The Paul F. Glenn Laboratories for Biology of Aging Research at the University of Michigan	Glenn Foundation for Medical Research	\$3,000,000	3.0
Ward, Kevin	Emergency Medicine Research	Development and Testing of New Noninvasive Monitoring Tools for Prolonged Field Care Goal Directed Therapy	Defense, Department of-Army, Department of the	\$2,998,209	3.0
Smrcka, Alan	Pharmacology Department	Understanding and Manipulating Phospholipase C and G Protein $\beta\gamma$ subunit Signaling Networks	Health and Human Services, Department of-National Institutes of Health	\$2,596,010	5.0
Leopold, Judith	Department of Radiology	Development of a Dual and Selective Small Molecule Inhibitor of EGFR and PI3 Kinase to Treat BRAF Mutant Colorectal Cancer	Health and Human Services, Department of-National Institutes of Health	\$2,295,752	5.0
Castro, Maria	Neurosurgery	Interactions between the tumor cells and the neuro-immune microenvironment in mutant IDH1 gliomas: implications for therapeutics	Health and Human Services, Department of-National Institutes of Health	\$2,090,235	4.9
Lukacs, Nicholas	Pathology Department	Lung Immunopathology Training	Health and Human Services, Department of-National Institutes of Health	\$1,948,418	5.0
Boulton, Matthew	Epidemiology Department	Preventive Medicine Residency- HRSA 2018	Health and Human Services, Department of-Health Resources and Services Administration	\$1,797,432	5.0
Segal, Benjamin	Neurology Department	A novel inflammatory cell with neuroprotective and neuroregenerative properties	Health and Human Services, Department of-National Institutes of Health	\$1,559,503	5.0
Espinoza-Fonseca, Lennane Michel	Int Med-Cardiology	Molecular mechanisms and regulation of the calcium pump in the heart	Health and Human Services, Department of-National Institutes of Health	\$1,076,200	3.3
Sun, Jing	Naval Arch & Marine Dept	Integrated Approach for Model-based Adaptation and Data-drive Learning for Ship Power Network Health Monitoring and Prognosis	Defense, Department of-Navy, Department of the	\$1,017,483	5.0
Jin, Judy	Industrial & Operations Engin	Provide Services for UM-JITRI Collaborative Program	Jiangsu Industrial Technology Research Institute (JITRI)	\$1,000,000	5.0
Watkinson, Charles	Library Publishing Dept Group	Sustaining and Expanding the Fulcrum Platform for Long-Form Digital Scholarship	Mellon, Andrew W., Foundation	\$1,000,000	2.0
Peng, Huei	Mcity	LG Electronics Leadership Circle Membership with Mcity	Lg Electronics, Inc.	\$999,999	3.0
Gadgeel, Shirish	Int Med-Hematology/ Oncology	First-in-human, open label, dose-escalation trial with expansion cohorts to evaluate safety of Axl-specific antibody-drug conjugate (HuMax®-AXL-ADC) in patients ..	Genmab	\$972,033	3.0
Laird, John	EECS - CSE - AI/IS	Interactive Task Learning	Defense, Department of-Air Force, Department of the	\$934,586	5.0
Abcouwer, Steven	Ophthalmology & Visual Science	Mouse Retinal Ischemia/Reperfusion Model for Drug and Biomarker Discovery"	F. Hoffmann-La Roche AG	\$888,868	3.0