

This report summarizes the overall trends in grant and contract activity across all three campuses of the University of Michigan through the first ten months of Fiscal Year 2019, which ended April 30, 2019.

Figure 1 shows that total research expenditures through the first ten months of FY 2019 are ahead of the previous year by 4.1 percent. It is important to note that total research expenditures for FY 2018, which closed on June 30, 2018, reached a record high of \$1.55 billion.

The number of research submissions through April was down 3.4 percent when compared to last year, as shown in Figure 2. Figure 3, however, shows the value of those submissions is up 7.3 percent when compared to FY 2018.

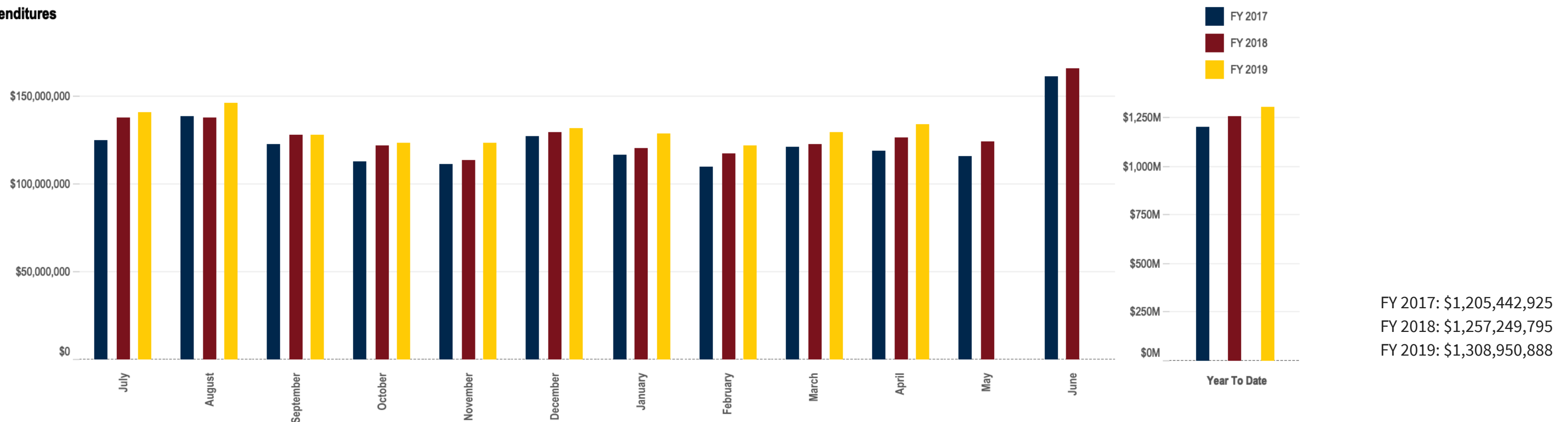
Figures 4 and 5 show the number of new research awards from external sponsors match the total from FY 2018, but their value increased by 10.1 percent when compared to the previous fiscal year — led in this reporting period by a \$15.9 million award to support the National Addiction & HIV Data Archive Program.

Rebecca Cunningham, Interim Vice President for Research

Craig Reynolds, Executive Director, Office of Research and Sponsored Projects

Figure 1

Expenditures



FY 2017: \$1,205,442,925  
 FY 2018: \$1,257,249,795  
 FY 2019: \$1,308,950,888

Figure 2

Submissions By Count

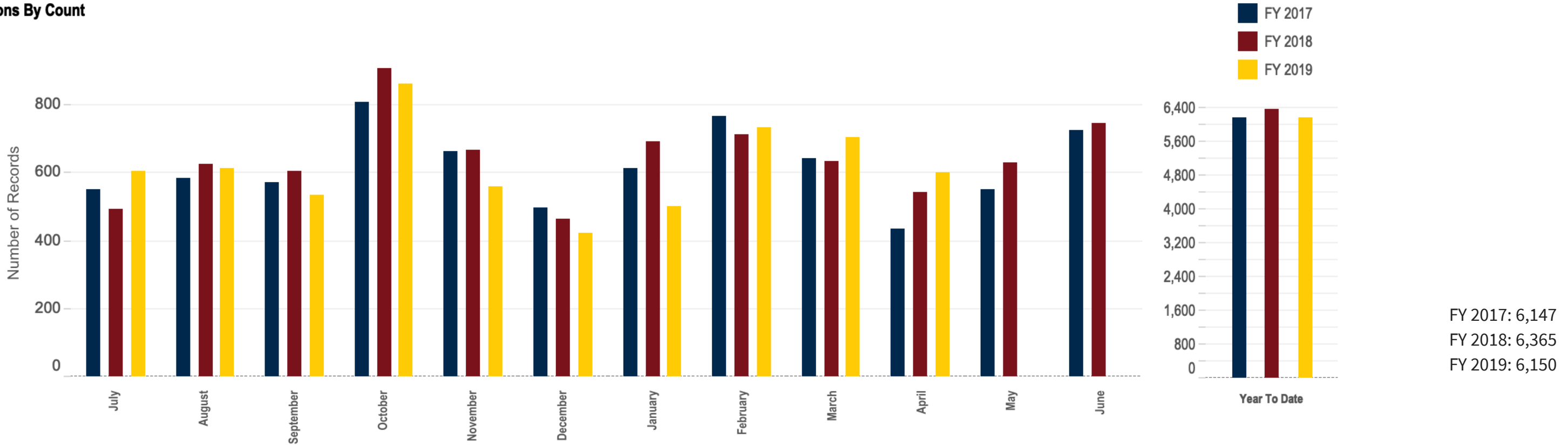


Figure 3

Submissions By Amount

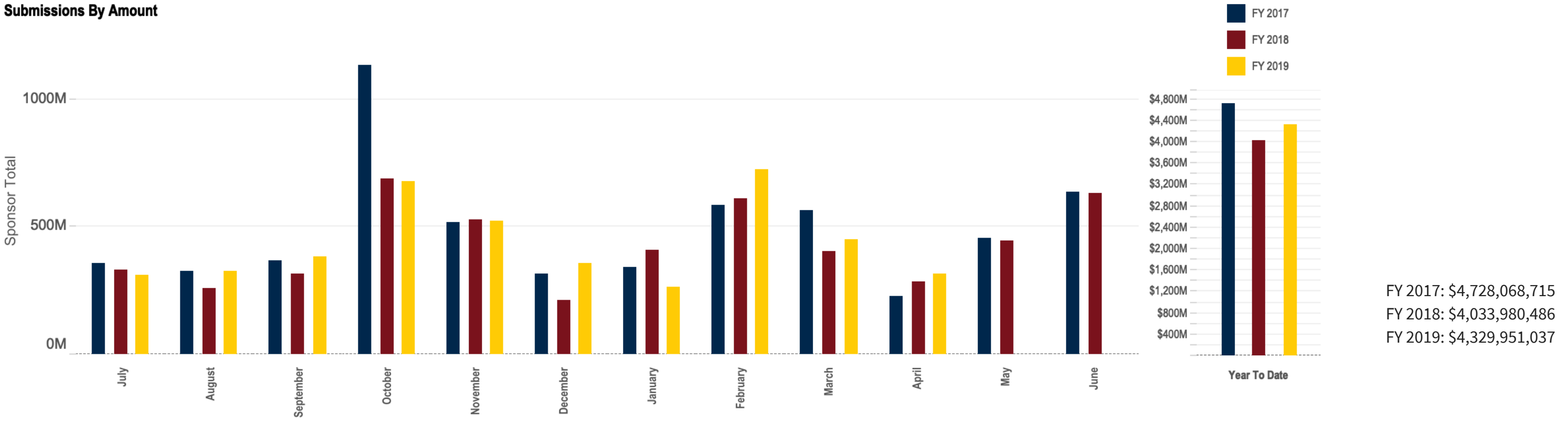


Figure 4

Awards By Count

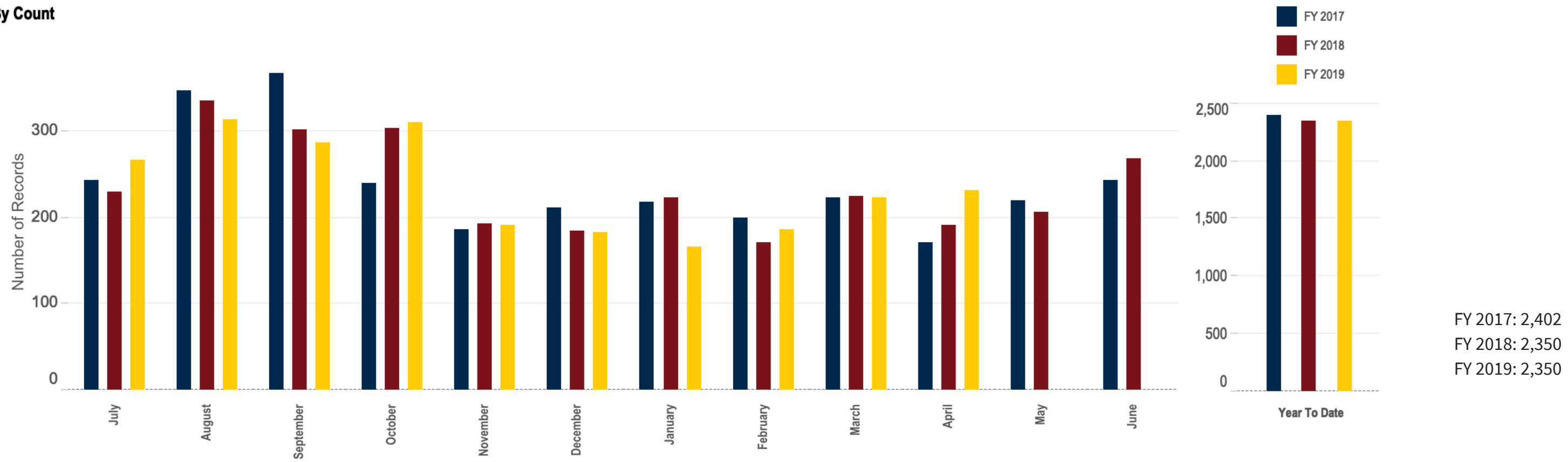


Figure 5

Awards By Amount

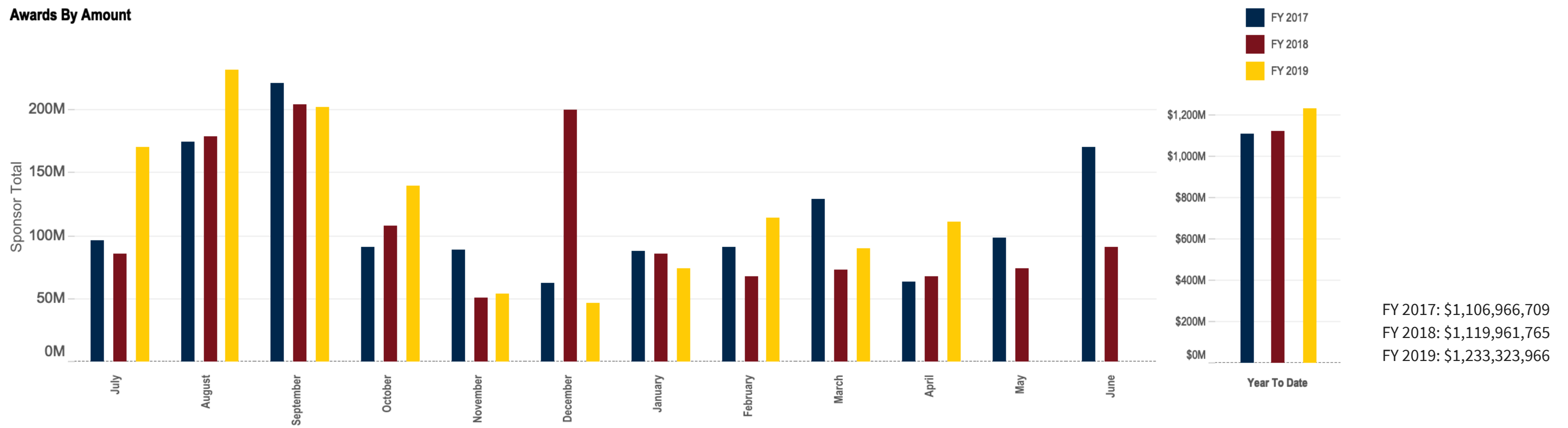


Figure 6

## 20 Largest Project Awards: April 2019

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Pienta, Amy	ICPSR - Membership Archives	National Addiction and HIV Data Archive Program	Health and Human Services, Department of-National Institutes of Health	\$15,978,151	5.0
Peters-Golden, Marc	Int Med-Pulm./Critical Care	Novel Functions of Lung Macrophages and Fibroblasts in Pulmonary Inflammation and Fibrosis	Health and Human Services, Department of-National Institutes of Health	\$6,521,512	6.9
Klionsky, Daniel	Life Sciences Institute-Admin	The mechanism and regulation of autophagy	Health and Human Services, Department of-National Institutes of Health	\$3,831,774	5.0
Zalupski, Mark	Int Med-Hematology/Oncology	UM LAPs -UG1 Grant	Health and Human Services, Department of-National Institutes of Health	\$3,802,320	6.0
Lisabeth, Lynda	Epidemiology Department	Improving Post-acute Care to Reduce Ethnic Stroke Disparities	Health and Human Services, Department of-National Institutes of Health	\$3,319,947	5.0
Carter, Patrick	Emergency Medicine Research	Using Re-enforcement Learning to Automatically Adapt a Remote Therapy Intervention (RTI) for Reducing Adolescent Violence Involvement.	Health and Human Services, Department of-National Institutes of Health	\$3,181,587	5.0
Holoshitz, Joseph	Int Med-Rheumatology	Gene-environment interaction pathways in rheumatoid arthritis	Health and Human Services, Department of-National Institutes of Health	\$2,671,070	5.0
Moravek, Molly	Obstetrics and Gynecology Dept	Reproductive Consequences of Steroid Hormone Administration	Health and Human Services, Department of-National Institutes of Health	\$2,619,984	5.0
Hammoud, Saher	Human Genetics Department	Towards the future of fertility: defining building blocks and establishing new methods for in vitro gametogenesis	Open Philanthropy Project	\$2,500,000	4.0
Mahajan, Prashant	Emergency Medicine Research	Improving Diagnosis in Emergency and Acute Care: A Learning Laboratory (IDEA-LL)	Health and Human Services, Department of-Agency for Healthcare Research and Quality	\$2,476,657	3.8
Shavit, Jordan	Pediatrics-Hematology/Oncology	Boxer Training Program in Molecular and Translational Hematology	Health and Human Services, Department of-National Institutes of Health	\$2,468,869	5.0
Burant, Charles	Metabolism, Endo & Diabetes	Diabetes Progression with Metabolomic Profiling in Starr County Mexican Americans	Health and Human Services, Department of-National Institutes of Health-Subcontracts	\$2,151,332	4.9
Akaaboune, Mohammed	LSA Molec./Cell./Develop. Bio	The effect of muscle-specific anchoring protein on the biology of the Neuromuscular system.	Health and Human Services, Department of-National Institutes of Health	\$2,119,827	5.0
Sexton, Jonathan	Int Med-Gastroenterology	Small molecules for expansion of islet beta-cell mass in diabetes	Health and Human Services, Department of-National Institutes of Health	\$2,016,421	2.8
Shore, Susan	Kresge Hearing Research Inst	Sensory Mechanisms and Disorders	Health and Human Services, Department of-National Institutes of Health	\$2,001,681	5.0
Boehman, Andre	Mechanical Engineering	TAILORED BIOBLENDSTOCKS WITH LOW ENVIRONMENTAL IMPACT TO OPTIMIZE MCCI ENGINES	Energy, Department of	\$2,000,000	3.3
Drake, R Paul	COE Climate & Space	Collaborative Research in Hydrodynamics and Radiation Hydrodynamics at High Energy Density	Energy, Department of-Subcontracts	\$1,985,382	5.0
Pletcher, Scott	Molec & Integrative Physiology	Mechanisms of Sensory Modulation of Aging	Health and Human Services, Department of-National Institutes of Health	\$1,930,166	16.5
Pletcher, Scott	Molec & Integrative Physiology	The role of neural signaling pathways in costs of reproduction on aging	Health and Human Services, Department of-National Institutes of Health	\$1,904,626	5.0
Cartee, Gregory	School of Kinesiology	Aging, Calorie Restriction and Insulin Sensitivity	Health and Human Services, Department of-National Institutes of Health	\$1,862,237	4.8