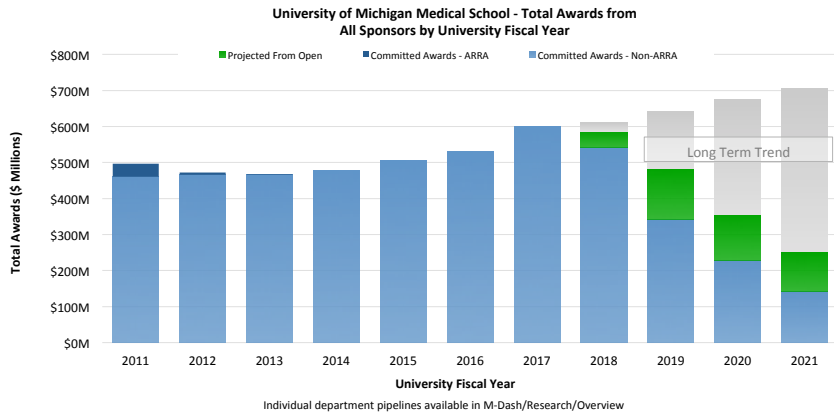
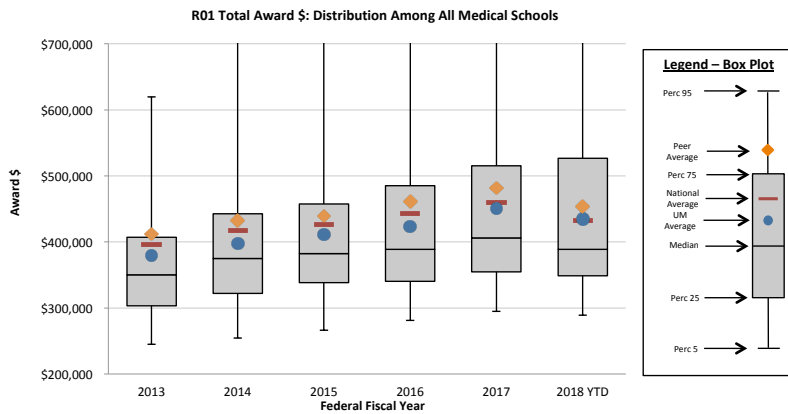


State of Research

UMMS Externally Funded Awards & Pipeline (4/16/2018)



External Benchmarking (4/2/2018)



*Peers institutions are determined by FFY 2016 rank bands based on total award \$ (excluding contracts).

Success Rates and Submissions (4/16/18)

	2013	2014	2015	2016	2017	2018 YTD
Submissions to Start in Univ. FY	2,465	2,570	2,663	2,690	2,809	2,835
Submissions (All Sponsors)	2,465	2,570	2,663	2,690	2,809	2,835
Success Rate (All Sponsors)	39%	39%	41%	42%	42%	31%
NIH Submissions (All Activity)	826	810	870	855	900	956
NIH Success Rate (All Activity)	21%	23%	23%	26%	25%	20%
R01 Submissions	417	363	432	406	444	461
R01 Success Rate	19%	20%	19%	24%	22%	18%

*Submissions are sorted into University Fiscal Year by actual budget award date or proposed anticipated start date.

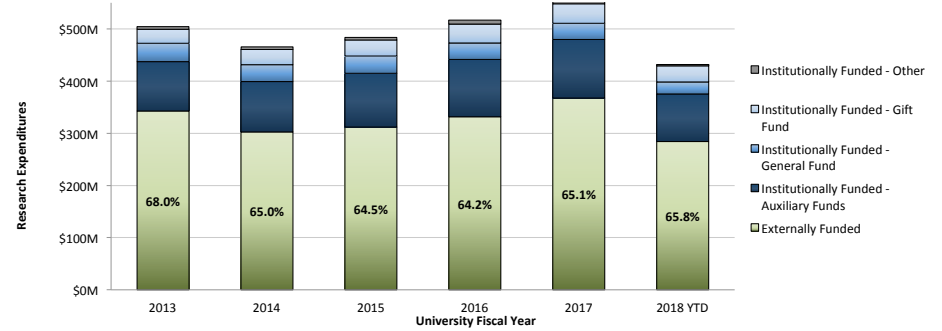
Output, Influence, and Recognition

Publications (Scopus; Latest Data Download 3/20/2018)

Calendar Year	2013	2014	2015	2016	2017	2018 YTD
Publications	6,926	7,233	6,842	6,136	5,894	984

Additional metrics for the Office of Research units available at: <http://www.med.umich.edu/medschool/research/state-of-research>
 Looking for aggregate department metrics? Log on to M-Dash: <https://www.umms.med.umich.edu/mdash/login-disolay.do>
 Looking for detailed metrics by department & individual? Log on to M-Stat: <https://www.umms.med.umich.edu/mstat/stat.htm>

UMMS Direct Research Expenditures (excluding Transfers & Distributions Expenditures; 3/31/2018)

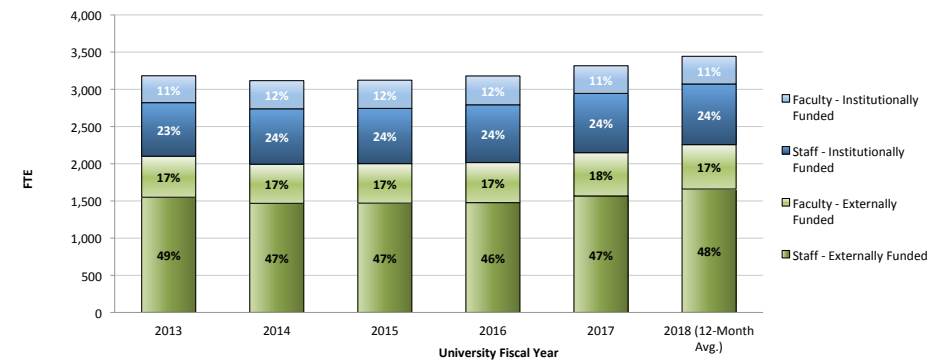


*Externally Sponsored Research Expenditures defined by all expenditures made in fund codes 20000 & 25000

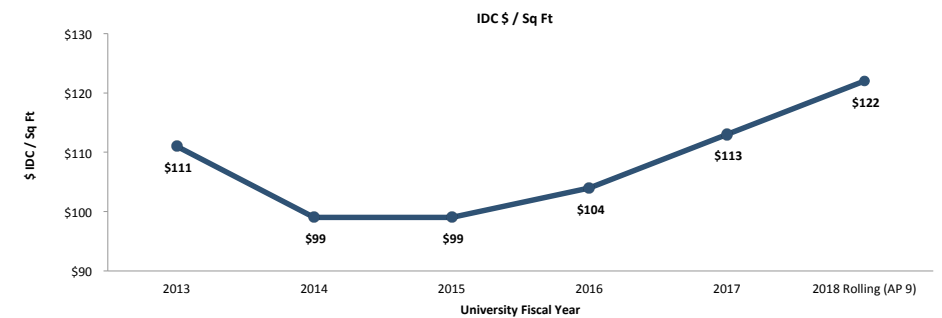
**Institutionally Funded Research Expenditures defined by expenditures made in class codes: 21000, 22000, 22100, 22200, & 31200 and all fund codes not equal to 20000 & 25000.

***Institutionally Funded - Other Expenditures include expenditures made in : Designated, Consolidated, Department Equipment, and Agency Funds.

UMMS Research Mission FTEs (3/31/2018)



UMMS Space Productivity (3/31/2018)



	2013	2014	2015	2016	2017	2018 Rolling (AP 9)
IDC Expenditure \$ in Research Space	\$98,485,160	\$89,966,644	\$92,856,108	\$98,027,014	\$105,984,412	\$112,927,886
12-Month Avg Sq Ft (Research Space)	884,311	912,681	939,863	938,103	934,468	925,794

State of Research - View by Department

Output, Influence, and Recognition

Leading Indicators of Financial Performance

Lagging Indicators of Financial Performance

Basic Science Departments

	Publications (Scopus Count)				Awards (\$ Millions)			
	2015	2016	2017 CYTD	2012-2016	2016	2017	2018 YTD	2013-2017
Biological Chemistry	77	70	11		5.8	4.1	4.9	
Biomedical Engineering	51	52	7		1.4	2.6	2.4	
Cell and Developmental Biology	101	92	14		7.4	9.9	7.6	
DCMB	167	147	20		5.3	6.8	5.1	
Human Genetics	87	60	9		7.0	4.8	6.7	
Microbiology and Immunology	126	90	12		15.7	15.4	15.9	
Molec & Integrative Physiology	208	165	29		18.7	22.1	22.0	
Pharmacology	96	101	17		9.9	10.8	9.5	

Clinical Departments

Anesthesiology	306	258	51		6.1	11.2	7.5	
Cardiac Surgery	168	116	45		4.9	4.5	3.4	
Dermatology	114	144	26		4.6	5.6	5.1	
Emergency Medicine	210	252	43		7.2	18.1	15.7	
Family Medicine	164	171	23		3.5	3.7	3.1	
Internal Medicine	2750	2990	447		176.8	195.8	178.1	
Neurology	279	273	46		22.6	25.6	24.9	
Neurosurgery	247	171	40		4.6	3.5	2.5	
Obstetrics/Gynecology	266	245	36		11.2	15.6	10.2	
Ophthalmology	284	255	46		10.3	9.8	10.0	
Orthopaedics	223	206	37		3.0	3.9	3.6	
Otolaryngology	292	243	57		7.7	7.4	6.2	
Pathology	654	608	114		31.4	29.6	29.2	
Pediatrics	605	588	106		24.2	26.0	26.6	
Physical Medicine and Rehab	125	119	15		5.3	3.9	5.9	
Psychiatry	580	548	140		28.3	31.2	30.5	
Radiation Oncology	346	347	124		9.4	10.2	7.7	
Radiology	623	739	157		13.1	14.7	12.6	
Surgery	901	959	186		28.7	34.0	34.3	
Urology	396	397	101		7.4	8.5	7.0	

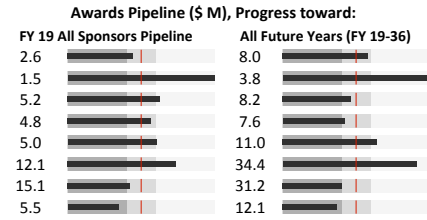
Other Med School Departments

Cancer Center*	0	0	0		16.7	3.2	3.1	
Division of Anatomical Science	0	1	0		0.3	0.3	0.9	
IHPI	0	0	0		0.1	0.3	0.3	
Department of Learning Health	103	84	13		2.2	2.5	1.5	
MBNI*	11	4	1		10.4	11.3	10.8	

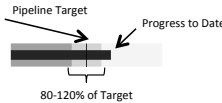
Research Oversight Units

BRCF Roll-Up	0	0	0		1.5	2.2	1.4	
Ctr for History of Medicine	0	0	0		0.0	0.0	0.0	
Ctr for Organogenesis	0	0	0		0.4	0.0	0.0	
Food Allergy Center	0	0	0		0.4	0.1	0.4	
MI Nanotechnology Institute	1	3	0		0.9	1.5	0.1	
MICHR Roll-up	0	0	2		10.5	11.6	12.2	
ULAM	31	31	3		1.2	0.7	0.6	
Med. Sch. Total (Incl. MSA, Other)	6136	5894	984		530.6	599.5	542.1	

Department award pipelines available in M-Dash/Research/Overview



*Non-Fed Pipeline has been removed. It will be replaced with a new management metric in Q1.



The Awards Pipeline is a forward-looking measure of all awards committed to the Department in future FY. The pipeline metrics reflect the Department's ability to maintain promised funding levels for one or all fiscal years. Targets are defined:

- **FY columns:** the Department's committed budget awards that are assigned to be available to support research in the next FY
- **All Future Years column:** the Department's committed budget awards that are assigned for all future FYs to support research
- **Pipeline Target:** the Department's set goal based on the previous FY's pipeline commitments + a 5% increase

	Space Productivity (IDC\$/Sq Ft)			
	2016	2017	2018 R	2013-2018 R
Biological Chemistry	51	48	55	
Biomedical Engineering	53	37	72	
Cell and Developmental Biology	85	106	119	
DCMB	123	153	153	
Human Genetics	75	54	55	
Microbiology and Immunology	116	112	102	
Molec & Integrative Physiology	111	131	142	
Pharmacology	66	83	96	

Anesthesiology	115	144	167	
Cardiac Surgery	82	63	53	
Dermatology	112	118	131	
Emergency Medicine	174	148	216	
Family Medicine	115	157	131	
Internal Medicine	152	154	163	
Neurology	115	147	162	
Neurosurgery	118	133	121	
Obstetrics/Gynecology	129	87	103	
Ophthalmology	88	73	72	
Orthopaedics	78	116	109	
Otolaryngology	89	89	89	
Pathology	113	125	129	
Pediatrics	129	133	171	
Physical Medicine and Rehab	331	416	550	
Psychiatry	305	324	349	
Radiation Oncology	110	146	163	
Radiology	93	111	109	
Surgery	120	153	173	
Urology	177	205	182	

Department space productivity available in M-Dash/Space/Productivity

Notes:

*Count of unique publications are attributed only to a faculty member's current administrative appointment as defined in M-Pathways HR Records; Department publication totals do not reflect publications by faculty with secondary appointments; Department totals do not add up to the School total due to co-authorships counting in multiple departments; Source: Scopus; Effective 3/20/18.