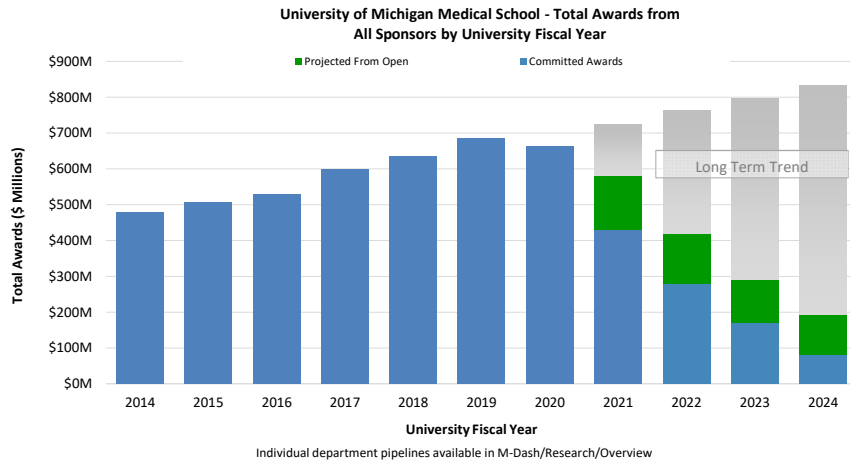
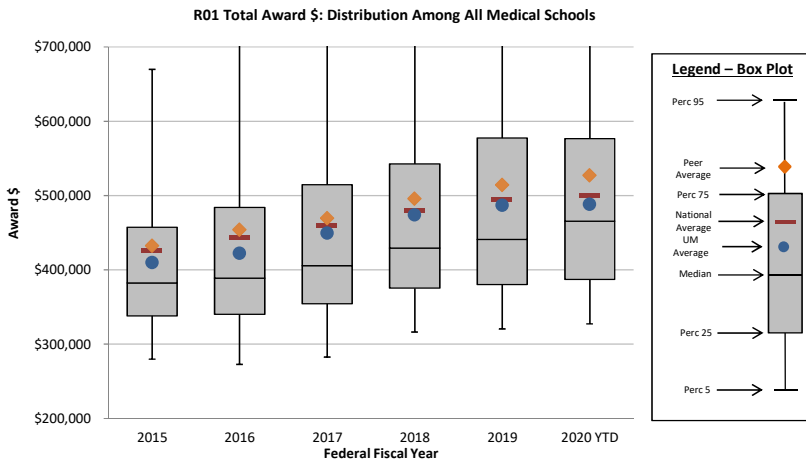


State of Research

UMMS Externally Funded Awards & Pipeline (7/20/2020)



External Benchmarking (7/20/2020)



*Peers institutions are determined by FFY 2019 rank bands based on total award \$ (excluding contracts).

Success Rates and Submissions (7/20/2020)

Submissions to Start in Univ. FY	2015	2016	2017	2018	2019	2020
Submissions (All Sponsors)	2,662	2,683	2,792	2,876	2,941	2,879
Success Rate (All Sponsors)	41%	42%	42%	42%	42%	37%
NIH Submissions (All Activity)	870	853	900	922	939	919
NIH Success Rate (All Activity)	23%	26%	25%	25%	28%	25%
R01 Submissions	432	406	444	445	456	473
R01 Success Rate	19%	24%	22%	22%	22%	20%

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

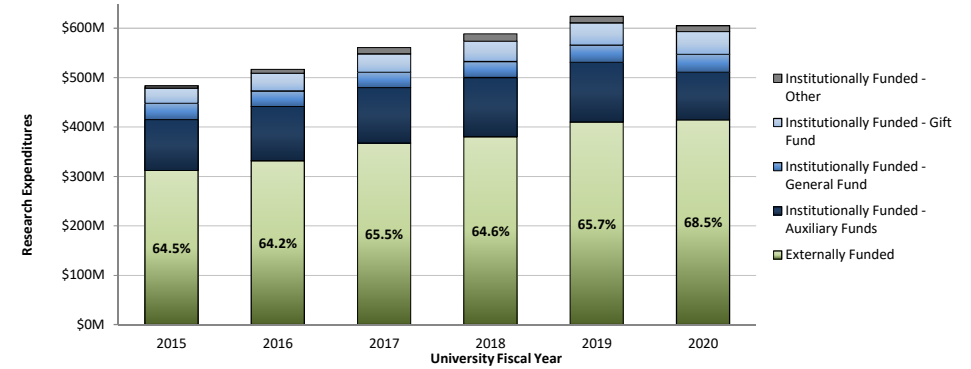
Output, Influence, and Recognition

Publications (Michigan Research Experts; 7/27/2020)

Calendar Year	2015	2016	2017	2018	2019	2020 CYTD
Publications	6,869	6,159	5,876	6,577	6,923	4,670

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-display.do>
 Looking for detailed metrics by department & individual? Log on to M-Stat: <https://www.umms.med.umich.edu/mstat/start.htm>

UMMS Direct Research Expenditures (excluding Transfers & Distributions Expenditures; 6/30/2020)

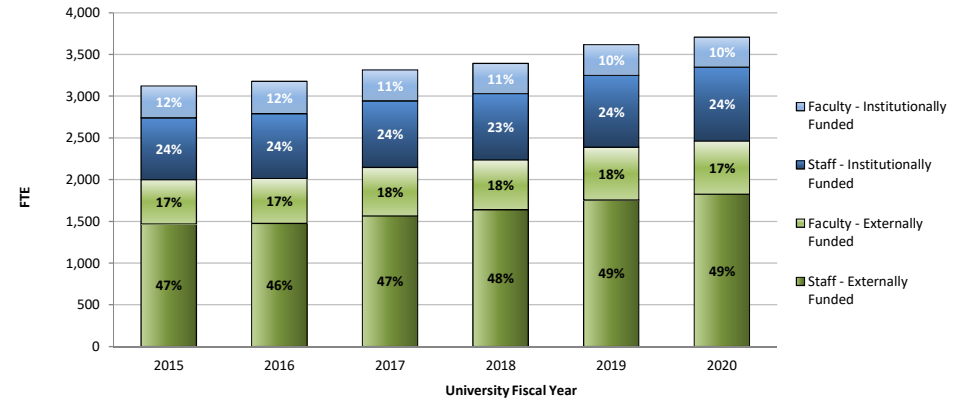


*Externally Sponsored Research Expenditures defined by all expenditures made in fund codes 20000 & 25000

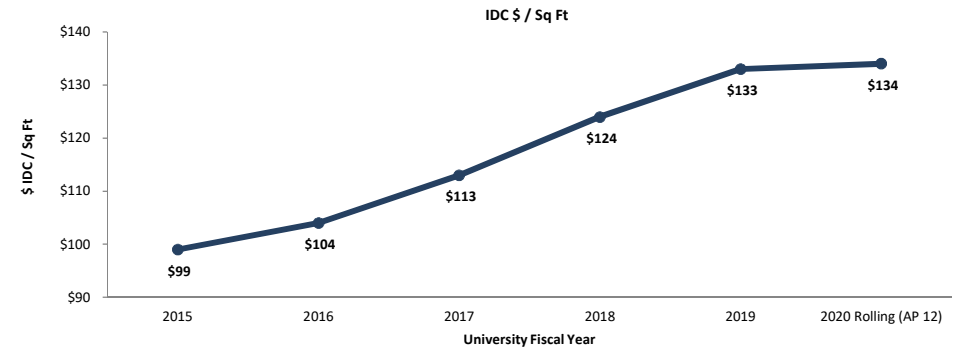
**Institutionally Funded Research Expenditures defined by expenditures made in class codes: 21000, 22000, 22100, 22200, & 31200 and all fund codes not equal to 20000 & 25000.

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

UMMS Research Mission FTEs (6/30/2020)



UMMS Space Productivity (6/30/2020)



	2015	2016	2017	2018	2019	2020 Rolling (AP 12)
IDC Expenditure \$ in Research Space	\$92,835,429	\$98,010,090	\$105,959,500	\$114,525,308	\$123,138,581	\$124,140,683
12-Month Avg Sq Ft (Research Space)	939,773	938,072	934,451	927,019	928,679	925,625

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)				Awards Pipeline (\$ M), Progress toward:		Space Productivity (IDC \$/Sq Ft)			
	2018	2019	2020 CTYD	2015-2019	2018	2019	2020	2015-2019	FY 21 All Sponsors Pipeline	All Future Years (FY 21-36)	2018	2019	2020 R	2015-2020 R
Biological Chemistry	174	137	91		15.1	6.5	7.2		4.5	10.9	58	77	85	
Biomedical Engineering	337	315	194		2.6	2.3	3.5		2.4	5.4	82	93	90	
Cell and Developmental Biology	165	130	88		8.5	8.2	12.3		8.3	22.9	126	104	122	
DCMB	320	311	181		6.6	10.9	9.8		6.3	12.4	151	161	217	
Department of Learning Health	152	174	145		4.6	5.0	4.7		0.7	0.7	188	289	334	
Human Genetics	123	150	105		7.3	10.7	8.3		6.6	14.7	64	108	103	
Microbiology and Immunology	222	192	138		16.0	19.4	19.1		12.6	25.3	108	129	140	
Molec & Integrative Physiology	333	351	208		23.6	26.4	23.5		15.6	34.5	147	147	133	
Pharmacology	248	173	211		11.1	9.9	11.6		7.6	16.9	95	71	93	

Clinical Departments

Anesthesiology	178	217	155		8.0	25.5	21.1		12.9	23.8	173	346	322	
Cardiac Surgery	170	144	148		4.1	4.1	5.9		4.8	16.5	54	53	87	
Dermatology	88	111	86		4.7	6.4	6.3		4.7	10.7	138	145	144	
Emergency Medicine	223	202	170		20.5	26.6	19.0		11.5	31.4	288	333	323	
Family Medicine	154	159	86		4.1	5.2	5.6		1.2	1.9	139	248	507	
Internal Medicine	2275	2375	1693		206.7	198.5	203.4		130.7	325.0	165	174	169	
Neurology	330	383	215		28.9	41.6	26.2		26.0	48.1	177	199	195	
Neurosurgery	208	191	155		3.8	5.0	5.2		3.9	13.5	117	147	136	
Obstetrics/Gynecology	327	365	241		10.5	5.5	6.4		5.4	14.7	86	136	187	
Ophthalmology	191	176	107		12.3	12.9	14.9		9.0	19.7	73	87	96	
Orthopaedics	193	251	181		4.3	5.7	5.4		3.1	6.7	100	148	111	
Otolaryngology	201	170	131		7.8	7.6	8.3		5.3	12.4	89	88	70	
Pathology	485	553	274		30.6	33.2	35.6		23.6	52.2	130	134	136	
Pediatrics	585	676	497		32.0	34.3	32.1		19.2	48.9	176	188	191	
Physical Medicine and Rehab	118	128	70		6.2	5.4	5.1		2.8	8.3	525	506	593	
Psychiatry	466	475	298		35.8	37.5	40.0		19.4	52.2	336	433	783	
Radiation Oncology	272	306	167		9.0	7.9	9.7		5.0	17.1	151	141	125	
Radiology	565	495	344		14.7	16.9	18.4		12.3	27.9	108	105	108	
Surgery	675	727	536		41.6	36.3	39.2		23.1	51.7	174	176	176	
Urology	345	361	211		9.7	6.3	5.9		5.0	14.0	166	172	186	

Other Med School Departments

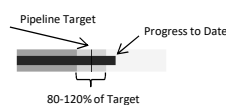
Cancer Center*	0	1894	1293		3.1	17.5	8.8		8.9	21.9	191	258	265	
Division of Anatomical Science	1	2	1		0.9	0.0	0.0		0.0	0.0	19	15	8	
IHPI	0	3104	2033		0.3	0.3	0.3		0.0	0.0	3	16	27	
MNI*	63	57	38		11.4	12.0	11.9		9.5	12.7	74	73	70	

Research Oversight Units

BRCF Roll-Up	0	0	0		1.6	3.9	3.5		2.9	4.4	23	29	33	
Ctr for History of Medicine	0	0	0		0.0	0.0	0.0		0.0	0.0	0	0	0	
Ctr for Organogenesis	0	0	0		0.0	0.0	0.0		0.0	0.0	156	0	0	
Food Allergy Center	32	34	21		1.2	2.5	2.2		1.3	2.7	10	133	153	
MI Nanotechnology Institute	0	0	0		0.2	0.8	0.1		0.0	0.0	38	34	17	
MICHR Roll-up	0	0	0		13.2	14.7	12.9		12.6	13.5	527	421	386	
ULAM	0	42	26		0.7	0.5	0.6		0.0	0.0	20	20	15	

Med. Sch. Total (Incl. MSA, Other)	6577	6923	4670		633.0	684.2	662.0		431.4	1000.9	124	133	134	
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Department award pipelines available in M-Dash/Research/Overview



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: Michigan Research Experts (2018 and later); Effective 7/27/20.

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