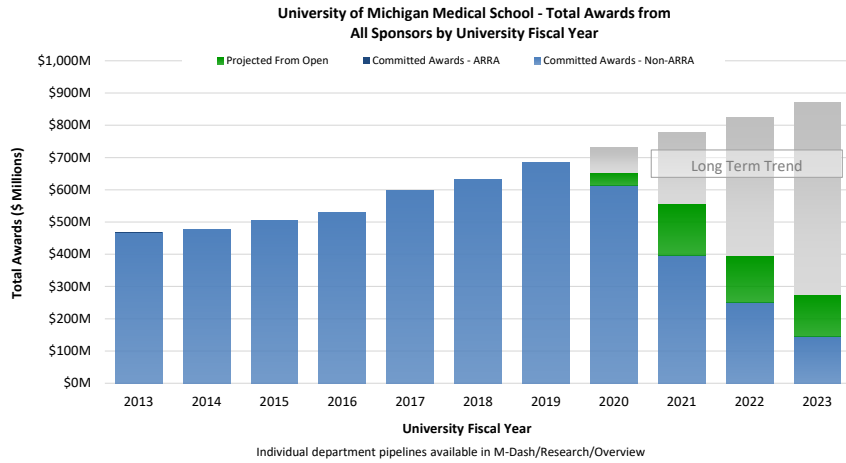
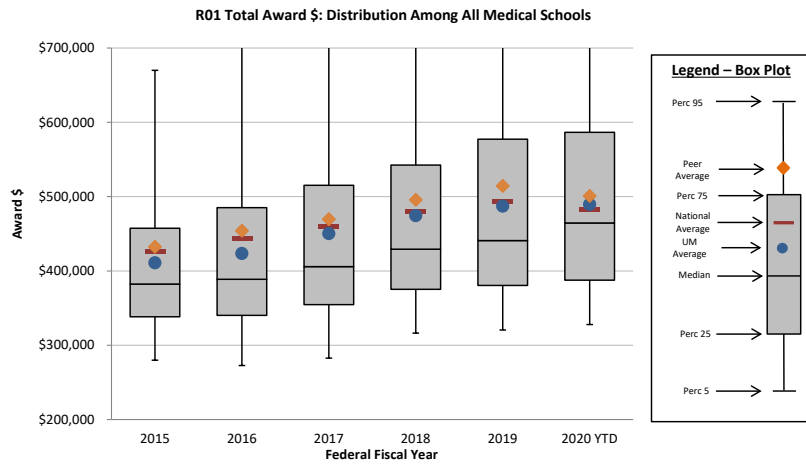


State of Research

UMMS Externally Funded Awards & Pipeline (4/20/2020)



External Benchmarking (4/8/2020)



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

Success Rates and Submissions (4/20/2020)

Submissions to Start in Univ. FY	2015	2016	2017	2018	2019	2020 YTD
Submissions (All Sponsors)	2,662	2,686	2,792	2,876	2,938	2,791
Success Rate (All Sponsors)	41%	42%	42%	42%	42%	31%
NIH Submissions (All Activity)	869	855	900	922	938	919
NIH Success Rate (All Activity)	23%	26%	25%	25%	28%	21%
R01 Submissions	432	406	444	445	456	467
R01 Success Rate	19%	24%	22%	22%	22%	16%

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

Output, Influence, and Recognition

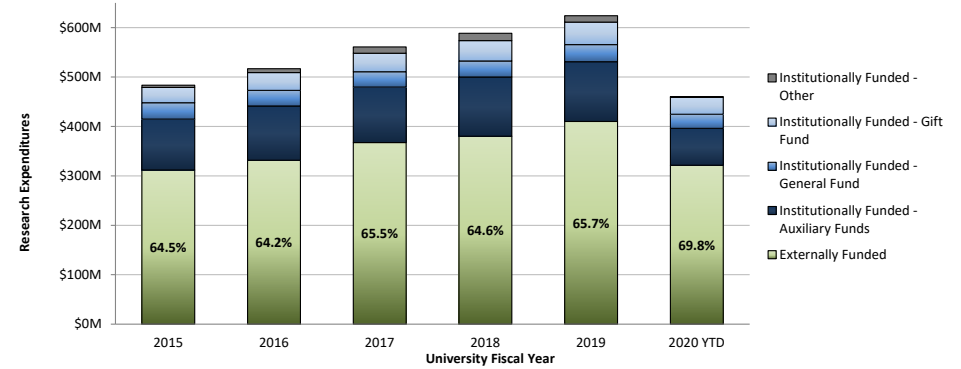
Publications (Michigan Research Experts; 4/20/2020)

Calendar Year	2015	2016	2017	2018	2019	2020 YTD
Publications	6,869	6,159	5,876	6,577	6,923	2,201

Effective 4/20/20

Additional metrics for the Office of Research units available at: <http://www.med.umich.edu/u/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; 3/31/2020)

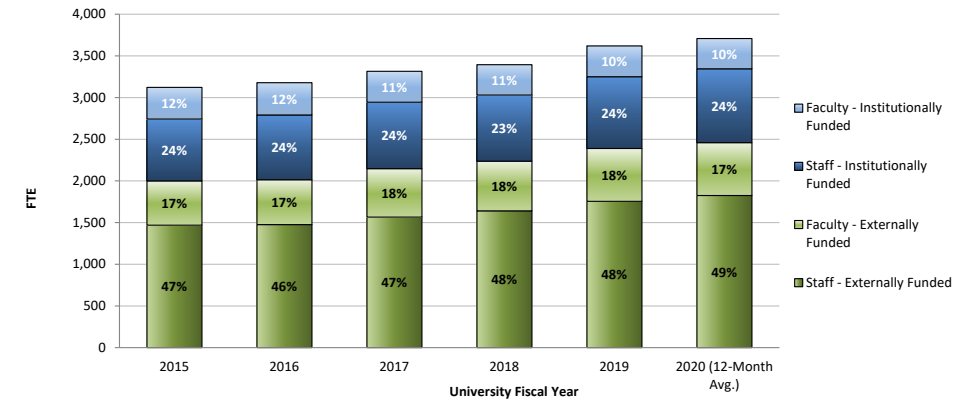


*Externally Sponsored Research Expenditures defined by all expenditures made in fund codes 20000 & 25000

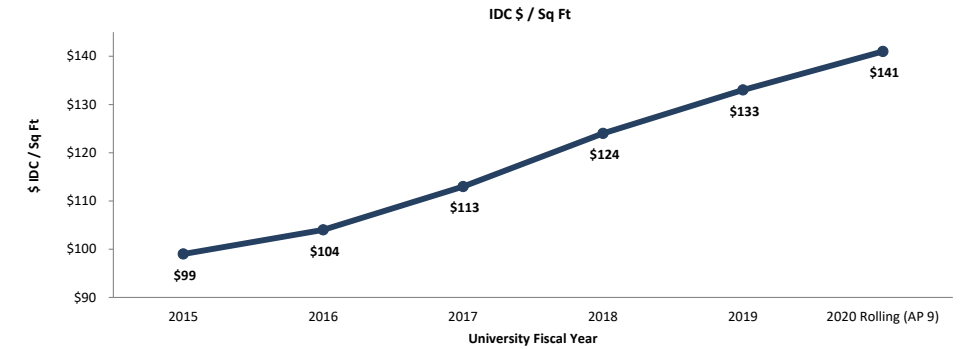
**Institutionally Funded Research Expenditures defined by expenditures made in class codes: 21000, 22000, 22100, 22200, & 31200 and all fund codes not equal to 20000 & 25000.

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

UMMS Research Mission FTEs (3/31/2020)



UMMS Space Productivity (3/31/2020)



	2015	2016	2017	2018	2019	2020 Rolling (AP 9)
IDC Expenditure \$ in Research Space	\$92,835,429	\$98,010,090	\$105,959,500	\$114,525,308	\$123,138,581	\$130,811,843
12-Month Avg Sq Ft (Research Space)	939,773	938,072	934,451	927,019	928,679	926,712

ssica MSA/gsa (msgrants@umich.edu)

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 CYTD	2015-2019	2018	2019	2020 YTD	2015-2019	FY 21 All Sponsors Pipeline	All Future Years (FY 21-36)	2018	2019	2020 R	2015-2020 R
Biological Chemistry	174	137	44		15.1	6.6	7.0		4.5	10.9	58	77	86	
Biomedical Engineering	337	315	106		2.6	2.4	3.5		1.8	4.7	82	93	90	
Cell and Developmental Biology	165	130	48		8.5	8.2	12.3		7.3	20.8	126	104	122	
DCMB	320	311	71		6.6	10.9	8.4		5.9	12.0	151	161	211	
Department of Learning Health	152	174	56		4.6	4.3	3.9		0.0	0.0	188	289	305	
Human Genetics	123	150	54		7.3	10.7	7.9		6.0	12.6	64	108	111	
Microbiology and Immunology	222	192	59		16.0	19.4	18.5		12.4	25.1	108	129	145	
Molec & Integrative Physiology	333	351	109		23.6	26.4	23.4		14.4	28.8	147	147	145	
Pharmacology	248	173	58		11.1	9.9	9.4		5.2	10.6	95	71	94	

Clinical Departments

Anesthesiology	178	217	75		8.0	25.5	20.2		12.7	23.4	173	346	384	
Cardiac Surgery	170	144	71		4.1	4.2	4.4		3.3	11.2	54	53	71	
Dermatology	88	111	37		4.7	6.4	6.2		4.4	10.4	138	145	157	
Emergency Medicine	223	202	53		20.5	28.1	16.8		11.5	31.3	288	333	339	
Family Medicine	154	159	49		4.1	5.2	4.5		1.1	1.6	139	248	440	
Internal Medicine	2275	2375	738		206.7	198.2	184.4		119.2	284.6	165	174	178	
Neurology	330	383	110		28.9	41.8	25.4		26.0	48.4	177	199	213	
Neurosurgery	208	191	63		3.8	5.0	4.2		2.7	5.9	117	147	149	
Obstetrics/Gynecology	327	365	132		10.5	5.5	6.4		4.6	11.5	86	136	210	
Ophthalmology	191	176	50		12.4	13.1	14.1		7.4	16.3	73	87	95	
Orthopaedics	193	251	94		4.3	5.7	5.3		3.1	6.7	100	148	121	
Otolaryngology	201	170	64		7.8	7.6	7.1		4.4	8.6	89	88	75	
Pathology	485	553	141		30.7	33.2	34.7		24.5	53.9	130	134	150	
Pediatrics	585	676	235		32.0	34.2	28.3		16.9	41.2	176	188	195	
Physical Medicine and Rehab	118	128	42		6.2	5.4	5.0		2.8	8.3	525	506	618	
Psychiatry	466	475	150		35.8	38.2	35.9		16.3	33.8	336	433	708	
Radiation Oncology	272	306	90		9.0	7.9	9.0		5.4	18.5	151	141	129	
Radiology	565	495	143		14.7	16.9	16.9		10.1	22.6	108	105	116	
Surgery	675	727	281		41.6	36.3	36.8		22.2	47.2	174	176	185	
Urology	345	361	113		9.7	6.3	5.5		4.5	13.0	166	172	196	

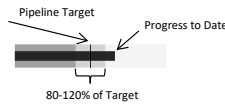
Other Med School Departments

Cancer Center*	0	1894	590		3.1	17.5	8.8		8.9	21.9	191	258	270	
Division of Anatomical Science	1	2	1		0.9	0.0	0.0		0.0	0.0	19	15	16	
IHPI	0	3104	996		0.3	0.4	0.3		0.0	0.0	3	16	31	
MNI*	63	57	14		11.4	12.0	11.8		8.7	10.3	74	73	77	

Research Oversight Units

BRCF Roll-Up	0	0	0		1.6	3.9	3.5		2.9	4.4	23	29	40	
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	9		1.2	2.5	2.2		1.3	2.7	10	133	148	
MI Nanotechnology Institute	0	0	0		0.2	0.8	0.0		0.0	0.0	38	34	21	
MICHR Roll-up	0	0	0		13.2	14.7	12.9		12.6	13.5	527	421	393	
ULAM	0	42	15		0.7	0.5	0.6		0.0	0.0	20	20	17	
Med. Sch. Total (Incl. MSA, Other)	6577	6923	2201		633.2	685.9	613.7		397.2	880.5	124	133	141	

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 4/20/20.

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