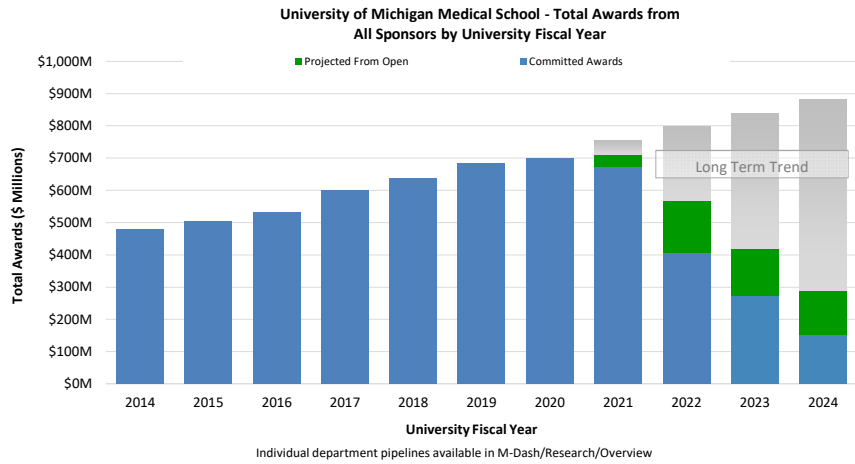
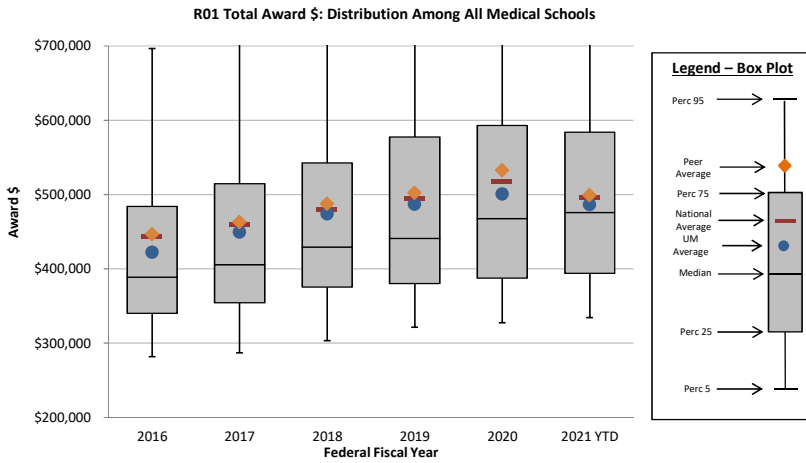


# State of Research

## UMMS Externally Funded Awards & Pipeline (4/19/2021)



## External Benchmarking (4/5/2021)



\*Peers institutions are determined by FFY 2020 rank bands based on total award \$ (excluding contracts).

## Success Rates and Submissions (4/19/2021)

	2016	2017	2018	2019	2020	2021 YTD
Submissions to Start in Univ. FY	2,683	2,792	2,876	2,938	2,827	2,939
Submissions (All Sponsors)	42%	42%	42%	43%	42%	30%
Success Rate (All Sponsors)	852	900	922	941	888	1,009
NIH Submissions (All Activity)	26%	25%	25%	28%	26%	20%
NIH Success Rate (All Activity)	405	444	444	457	461	470
R01 Submissions	24%	22%	22%	22%	21%	14%
R01 Success Rate						

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

## Output, Influence, and Recognition

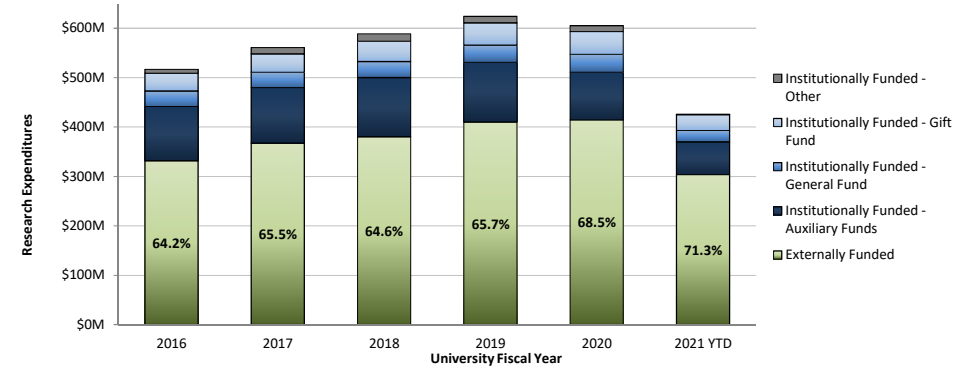
### Publications (Michigan Research Experts; 4/20/2021)

Calendar Year	2016	2017	2018	2019	2020	2021 CYTD
Publications	6,159	5,876	6,577	6,923	8,463	2,781

Effective 4/19/21

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; 3/31/2021)

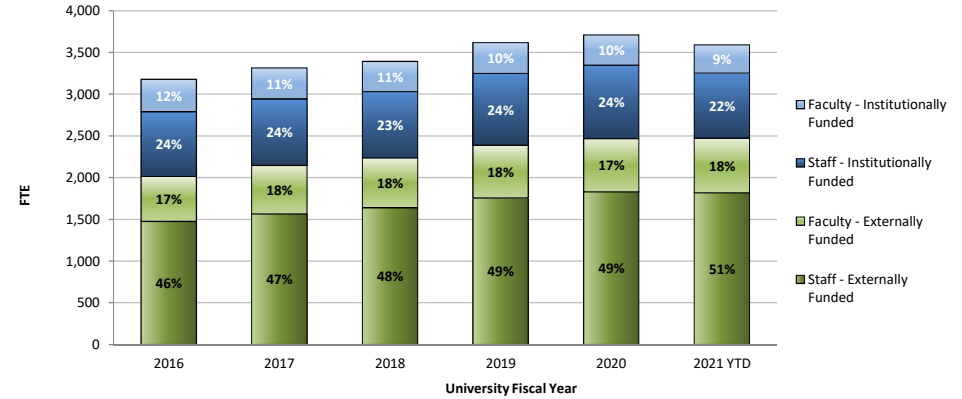


\*Externally Sponsored Research Expenditures defined by all expenditures made in fund codes 20000 & 25000

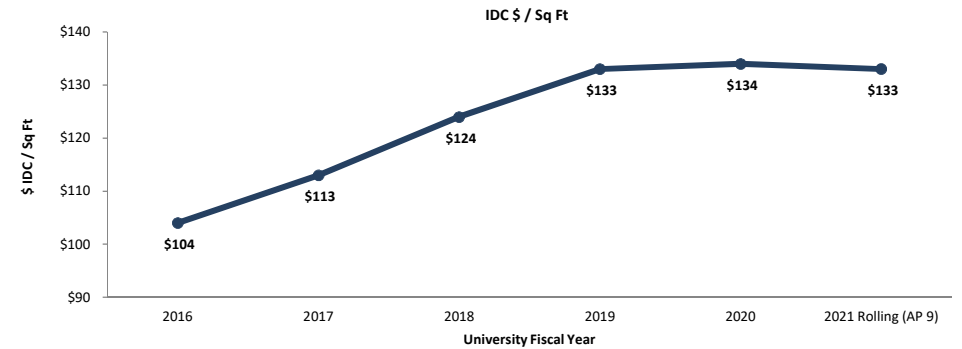
\*\*Institutionally Funded Research Expenditures defined by expenditures made in class codes: 21000, 22000, 22100, 22200, & 31200 and all fund codes not equal to 20000 & 25000.

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

## UMMS Research Mission FTEs (3/31/2021)



## UMMS Space Productivity (3/31/2021)



	2016	2017	2018	2019	2020	2021 Rolling (AP 9)
IDC Expenditure \$ in Research Space	\$98,010,090	\$105,959,500	\$114,525,308	\$123,138,581	\$124,140,683	\$122,968,173
12-Month Avg Sq Ft (Research Space)	938,072	934,451	927,019	928,679	925,625	926,468

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)			
	2019	2020	2021 CTYD	2016-2020	2019	2020	2021 YTD	2016-2020	FY 22 All Sponsors Pipeline	All Future Years (FY 22-36)	2019	2020	2021 R	2016-2021 R
Biological Chemistry	137	136	44		6.6	7.8	10.0		4.9	11.8	77	85	84	
Biomedical Engineering	315	406	129		2.3	4.3	5.1		3.5	8.2	93	90	83	
Cell and Developmental Biology	130	184	44		8.2	12.7	12.0		10.6	20.9	104	122	119	
DCMB	311	388	135		10.9	10.0	11.5		5.8	13.4	161	217	210	
Department of Learning Health	174	222	69		5.0	4.8	1.1		0.2	0.2	289	334	326	
Human Genetics	150	211	69		10.7	8.6	9.0		6.8	13.8	108	103	91	
Microbiology and Immunology	192	265	67		19.4	19.3	18.8		15.0	29.2	129	140	120	
Molec & Integrative Physiology	351	379	106		26.0	23.8	18.7		9.6	19.2	147	133	115	
Pharmacology	173	352	52		9.9	11.8	12.9		9.5	25.1	71	93	95	

### Clinical Departments

Anesthesiology	217	299	100		25.5	21.4	25.8		11.4	21.5	346	322	321	
Cardiac Surgery	144	224	81		4.2	5.9	5.3		5.2	14.2	53	87	138	
Dermatology	111	153	53		6.4	6.6	7.6		3.1	6.6	145	144	126	
Emergency Medicine	202	296	103		26.6	24.9	24.8		18.4	41.5	333	323	378	
Family Medicine	159	185	55		5.2	6.1	2.2		1.0	1.2	248	507	512	
Internal Medicine	2375	3040	912		198.5	217.2	210.2		135.6	326.9	174	169	174	
Neurology	383	446	150		39.4	28.2	38.3		21.6	37.4	199	195	188	
Neurosurgery	191	273	82		5.0	5.3	3.9		3.7	9.9	147	136	133	
Obstetrics/Gynecology	365	441	156		5.5	6.5	6.5		4.5	11.4	136	187	187	
Ophthalmology	176	205	96		13.3	15.7	16.0		9.8	25.0	87	96	106	
Orthopaedics	251	295	94		5.7	5.6	4.2		1.2	2.4	148	111	92	
Otolaryngology	170	234	97		7.6	8.6	6.8		3.9	9.1	88	70	67	
Pathology	553	583	195		33.5	35.8	29.8		17.0	37.8	134	136	141	
Pediatrics	676	817	287		34.3	31.6	29.5		18.1	42.3	188	191	200	
Physical Medicine and Rehab	128	125	46		5.3	5.3	4.9		3.5	8.0	506	593	944	
Psychiatry	475	535	182		37.4	40.4	43.6		16.7	43.0	433	783	1089	
Radiation Oncology	306	329	117		7.9	10.1	6.7		5.0	18.3	141	125	117	
Radiology	495	662	244		16.9	21.4	14.4		11.1	19.3	105	108	110	
Surgery	727	860	315		36.1	41.2	32.1		19.0	45.5	176	176	141	
Urology	361	392	133		6.3	6.1	9.9		6.4	16.1	172	186	204	

### Other Med School Departments

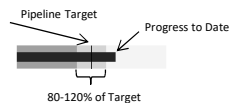
Cancer Center*	1894	2388	674		17.5	10.8	9.2		8.9	13.0	258	265	313	
Division of Anatomical Science	2	1	0		0.0	0.0	0.0		0.0	0.0	15	8	4	
IHPI	3104	3611	1242		0.3	0.3	0.3		0.3	0.3	16	27	29	
MNI*	57	75	35		12.5	12.0	10.9		3.2	6.0	73	70	68	

### Research Oversight Units

BRCF Roll-Up	0	0	0		3.9	3.5	2.9		1.6	1.6	29	33	24	
Ctr for Organogenesis	0	0	0		0.0	0.0	0.0		0.0	0.0	0	0	0	
Food Allergy Center	34	34	13		2.5	2.2	2.4		1.4	1.9	133	153	160	
MI Nanotechnology Institute	0	0	0		0.8	0.2	0.0		0.0	0.0	34	17	13	
MICHR Roll-up	0	0	0		14.7	13.3	14.4		0.9	0.9	421	386	430	
ULAM	42	42	14		0.6	0.6	0.2		0.1	0.2	20	15	11	

<b>Med. Sch. Total (Incl. MSA, Other)</b>	<b>6923</b>	<b>8463</b>	<b>2781</b>		<b>682.4</b>	<b>698.0</b>	<b>672.6</b>		<b>407.5</b>	<b>923.0</b>	<b>133</b>	<b>134</b>	<b>133</b>	
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Department award pipelines available in M-Dash/Research/Overview



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

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 4/20/21.