# AUTM 2021 Licensing Activity Survey Appendix

A Survey of Technology Licensing and Related Activity for US Academic and Nonprofit Research Institutions



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### Thank you to our sponsors





### **Message From the Chair:**

CHIPS Act Poised to Usher in New Tech Transfer Era

The recent passage of the most transformative technology transfer legislation since the Bayh-Dole Act represents an unprecedented opportunity for university research and other higher education institutions. But our ability to maximize this opportunity depends on metrics.

The bipartisan "CHIPS and Science Act" for the first time authorizes critical investment in the technology transfer infrastructure necessary to bring life-changing products and services to the public. It also contains language specifically linking this investment to commercialization metrics that will help determine program strategy and measure the funding's impact once it has been appropriated and awarded by Congress.

Thanks to AUTM's annual Licensing Activity Survey, our research institutions are prepared to track the relevant metrics. Now we need our legislators to swiftly appropriate the funds that have been authorized.

AUTM has played a key role in advocating for the aspects of this legislation that support tech transfer. Section 10391 provides for three-year, \$3 million National Science Foundation grants designed specifically to increase or establish technology transfer capacity at research and other higher education institutions. AUTM leadership worked to ensure these funds can be used to address key technology transfer office pain points, like staffing and patent cost reimbursements.

In addition, Sec. 10391 authorizes funding for the establishment of Collaborative Innovation Resource Centers, where resources from large institutions can be leveraged to support technology transfer service mechanisms across a region, including for smaller institutions without any dedicated technology transfer resources.

Going forward, AUTM's 30 years of collecting data on licensing and other measures of technology transfer impact – through Licensing Activity Surveys like this one - will be invaluable as we work with the government and relevant stakeholders to determine what the CHIPS-mandated compliance metrics will look like.

The Licensing Activity Survey, already an essential benchmarking tool for research institutions, is uniquely positioned to compile the data used by the government to quantify the impact of CHIPS-authorized funds on the nation's health, safety and economic security. If you contributed your data this year, I thank you. If you have not, it's time to start.

lan D. McClure, JD, LLM AUTM Chair





## **Executive Summary**

FY21 Metrics Demonstrate Tech Transfer's Resilience

The findings of this year's AUTM Licensing Survey confirm that some effects of the global pandemic were still being felt in fiscal year 2021, but they also provide a number of reasons to be optimistic that the technology transfer industry has the resilience needed to survive and thrive despite recent challenges.

Overall, research expenditures reported in the FY21 survey were slightly lower than for FY20, but but because there were fewer respondents in FY21, the per-institution average actually increased by about 25%. Federal funding and funding for clinical trials decreased from FY20 to FY21, which may reflect a pullback of COVID-related funding, but those declines were offset by an increase in industry funding. We will continue to monitor this trend in future surveys.

Certain metrics related to licenses and licensing revenue also are encouraging. The industry reported small increases in the total number of licenses and options, including a 10% increase in the number of exclusive licenses executed. Conversely, and perhaps indicative of aging portfolios or long-in-the-tooth technologies, numbers of active license agreements fell by 14%, licenses yielding income fell by 11%, and licenses generating running royalties fell by 18%.

Overall licensing income received has not changed significantly, but the reported 10% decline in running royalties may indicate diminishing returns on historical deals. One outlier this year was cashed-in equity with nearly \$500 million booked, more than double the previous year.

No statistic jumped out at us more than staffing: Between FY20 and FY21, licensing staff ranks were depleted by almost 12%. Every office has been feeling the pressures of new remote/hybrid work modes, as well as filling new staff positions within this new work paradigm.

Those staffing challenges likely contributed to some reported declines at the core of our business. Disclosures were down by 13% (to the lowest number reported since 2015) and new patents filed were also down by 13%—including declines of 10% for provisional filings, 14% for US utility applications and 14% for non-US patents.

Each institution's situation is unique, so I encourage everyone to review all the data from this year's survey in the STATT database to see how recent trends are impacting your institution and its peers.

The tech transfer community is demonstrating that when times get tough, we adapt as needed to press forward and continue our efforts to make the world a better place. Metrics like the ones in this survey are essential for informing and documenting that evolution.

John Miner Chair, AUTM Metrics and Surveys Portfolio

## Benchmarking

### How Does Your Institution Measure Up?

We know that survey contributors already use the historical data to see how their institutions stack up. So, using research expenditures to level the playing field, we're taking a closer look at how tech transfer operations tick for different peer groups.

### WHAT TO MEASURE

For the benchmarking report, we selected five of the most common measurements that broadly capture the overall performance of tech transfer offices. A sixth key measurement, research expenditures, was used to organize the data into peer groups.

- Invention Disclosures
- New Patent Applications
- Licenses and Options
- Gross Licensing Income
- Startups Formed

### SELECTING PEER GROUPS

Another important consideration in cross-institution benchmarking is identifying appropriate peers. Each year the National Science Foundation (NSF) conducts the comprehensive Higher Education Research and Development (HERD) Survey. We use the HERD report to divide the population into categories based on research funding. This annual census collects information on R&D expenditures from more than 900 degree-granting institutions that spent at least \$150,000 in R&D during the fiscal year. These institutions accounted for more than 99% of the total R&D expenditures reported.

	Peer Groups			ntion sures	New Patent Applications		Licens Opti			icensing ome	Startups Formed	
HERD Rank	Total Research Expenditures	Group Size	Average	Median	Average	Median	Average	Median	Average	Median	Average	Median
1	More than \$469,682,000	56	295.3	258	206.8	148	123.2	97	\$36,409,573	\$14,511,537	12.8	9
2	\$212,823,000 to \$469,682,000	44	107.0	94	66.8	52	31.9	27	\$7,064,366	\$2,752,489	4.2	4
3	\$102,823,000 to \$212,823,000	22	51.5	46	36.3	27	19.9	13	\$7,939,112	\$1,070,938	2.5	2
4	\$46,253,000 to \$102,823,000	18	32.1	35	10.6	9	11.7	8	\$3,074,728	\$202,594	0.9	1
5	\$24,194,000 to \$46,253,000	8	23.6	15	21.6	19	4.6	2	\$266,092	\$126,357	2.0	2
6	\$8,011,000 to \$24,194,000	5	27.2	30	18.8	8	4.0	5	\$14,474	\$11,000	1.6	2
	Overall	153	152.1	92	103.1	51	47.8	29	\$16,875,653	\$2,952,592	6.5	4

## Peer Group Comparison

1	NSTITUTION			KEY METRICS								<b>OTHER BENCHMARKS</b>				
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Total Licenses	Total Options	Gross License Income	Disclosures	New Patent Applications	Startups	Active Licenses and Options	Issued Patents	Running Royalties	Adjusted Gross Income		
Albert Einstein College of Medicine, Inc.	University	1985	4	\$201,856,459	27	2	\$2,965,240	39	35	1		25	\$102,253			
Arizona State University	University	1985	9.04	\$677,303,000	36	43	\$903,221	301	214	21	343	157	\$54,921	\$900,549		
Auburn University	University	1988	2.9	\$266,374,000	15	4	\$2,033,840	73	51	2	99	21	\$1,337,945	\$2,033,840		
Augusta University	University	2001	2	\$116,480,000	8	0	\$1,035,257	20	39	0	63	12	\$611,056	\$1,035,257		
Baylor College of Medicine	University	1983	6	\$614,340,396	65	4	\$12,002,204	92	42	2		12				
Beth Israel Deaconess Medical Center	Hospital / Research Institution	1997	5	\$233,984,950	25	4	\$4,708,679	73	169	5	20	20	\$2,122,248	\$4,623,947		
Boston Children's Hospital	Hospital / Research Institution	1991	7	\$426,609,000	43	9	\$11,796,365	250	54		447	55	\$7,550,939	\$11,391,662		
Boston University	University	1976	8	\$680,888,627	26	9	\$2,520,826	72	180	3		46	\$1,342,069	\$2,452,363		
Bowling Green State University	University	2001	0	\$18,619,000	0	2	\$11,000	10	3	0	6	0	\$11,000	\$11,000		
Brandeis University	University	1998	3	\$66,386,000	8	0	\$3,968,859	40	9	1	40	15	\$3,683,042	\$3,908,044		
Brigham Young University	University	1986	3	\$37,402,000	10		\$1,468,349	70	123	5	72	2	\$868,790	\$1,414,634		
California Institute of Technology	University	1995	10	\$499,000,000	42	15	\$6,417,502	188	187	8	482	167	\$1,873,013	\$6,394,784		
Carnegie Mellon University	University	1992	8.7	\$359,693,104	44	2	\$14,148,513	347	293	4	617	52	\$2,371,185	\$14,141,182		
Case Western Reserve University	University	1986	5.8	\$322,918,053	46	17	\$3,224,976	102	53	5		93	\$801,748	\$3,037,258		
Cedars-Sinai Medical Center	Hospital / Research Institution	1991		\$213,500,000	14	1	\$17,200,000	65	182	3						
Children's Hospital of Philadelphia	Hospital / Research Institution	1991	5	\$521,595,273	26	2	\$2,114,343	81	27	5	135	19	\$1,257,343	\$1,965,901		
Children's Hospital, Cincinnati	Hospital / Research Institution	1997	9	\$405,446,000	30	2	\$1,900,000	132	46	1	241	29	\$1,300,000	\$1,900,000		
Clemson University	University	1987	3	\$237,485,000	13	1	\$239,074	44	12	1	71	18	\$21,623	\$236,824		
Cleveland Clinic	Hospital / Research Institution	1989	11	\$330,000,000	27	6	\$8,524,448	176	96	2	359	178	\$5,197,669	\$8,436,733		
Cold Spring Harbor Laboratory	Hospital / Research Institution	1985	4	\$148,415,495	9	1	\$2,763,300	5	9	1	191	9	\$1,158,735	\$2,696,472		
Colorado School of Mines	University	2005	1	\$74,000,000	7	2	\$91,300	42	24	3	45	15				
Colorado State University	University	1970	3	\$447,197,282	26	7	\$3,957,111	96	80	5	259	22	\$2,048,874	\$3,937,111		
Columbia University	University	1982	12.5	\$972,900,132	89	31	\$79,097,662	375	274	27		105	\$16,633,004	\$71,263,171		
Cornell University	University	1979	12	\$1,220,000,000	80	14	\$16,070,680	436	184	18	1019	126	\$9,118,231	\$14,636,987		
Dana-Farber Cancer Institute	Hospital / Research Institution	1981	22.5	\$391,553,882	51	3	\$46,077,174	148	85	7	531	96	\$8,570,138	\$45,357,797		
Drexel University	University	1995	3	\$179,937,401	8	6	\$918,497	43	29	3	75	21	\$631,511	\$868,497		
Duke University	University	1986	13.4	\$1,083,994,000	92	25	\$91,310,987	374	179	13	826	95	\$61,938,372	\$90,910,683		



IN	ISTITUTION					KEY	METRICS				<b>OTHER BENCHMARKS</b>				
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Total Licenses	Total Options	Gross License Income	Disclosures	New Patent Applications	Startups	Active Licenses and Options	Issued Patents	Running Royalties	Adjusted Gross Income	
East Carolina University	University	1995	2	\$51,662,000	8	0	\$74,024	53	2	2	37	6	\$52,274	\$74,024	
Emory University	University	1985	9	\$724,508,234	31	2	\$18,132,394	213	96	9	315	43	\$7,922,817	\$15,836,647	
Florida Atlantic University	University	2001	1	\$55,922,262	0	2	\$108,747	40	9	0	14	2	\$56,247	\$108,747	
Florida State University	University	1996	4	\$328,604,765	18	5	\$396,606	58	20	2		46			
Fox Chase Cancer Center	Hospital / Research Institution	1984	3	\$46,438,464	10	0	\$797,445	14	9		210	7	\$198,595	\$797,445	
Fred Hutchinson Cancer Research Center	Hospital / Research Institution	1988	8	\$754,542,657	23	7	\$39,623,573	210	36	1	355	24	\$1,889,645	\$39,498,175	
George Washington University	University	2003	2	\$266,107,453	5	4	\$2,788,848	52	30	3	18	19	\$443,348	\$2,788,848	
Georgetown University	University	1993	6	\$279,590,691	7	1	\$354,224	39	50	0	74	21	\$242,139	\$354,224	
Georgia Institute of Technology	University	1990	5	\$1,200,000,000	15	10	\$2,678,048	244		8	374	74	\$2,228,845	\$2,647,279	
H. Lee Moffitt Cancer Center & Research Institute	Hospital / Research Institution	2003		\$240,276,176	9	1	\$1,653,749	54	61	1			\$6,327	\$1,402,934	
Harvard University	University	1977	11	\$913,000,000	98	54	\$106,047,639	383	180	27	1179	193	\$10,802,551	\$100,771,657	
Indiana University	University	1991	7	\$428,364,941	21	6	\$9,308,000	139	165	7	124	63	\$4,920,800	\$5,633,000	
Iowa State University	University	1935	7.9	\$394,487,595	34	13	\$2,906,665	179	51	8	376	50	\$2,775,239	\$2,906,665	
Jackson State University	University	2010	0	\$63,067,157	1	2	\$0	10	3	2	4	1	\$0	\$0	
Johns Hopkins University	University	1973	22.13	\$1,776,957,620	106	21	\$38,952,906	401	253	18	987	167	\$6,654,648	\$36,349,692	
Johns Hopkins University Applied Physics Laboratory	University	1999	6	\$1,819,199,565	65	8	\$936,297	478	100	1	302	25	\$367,284	\$853,529	
Kansas State University Research Foundation	University	1942	5.42	\$203,846,000	22	3	\$4,111,751	61	33	0	168	17	\$1,547,817	\$4,068,877	
Louisiana State University System	University	1986	9.5	\$360,823,580	34	5	\$10,214,896	169	76	6	255	48	\$8,907,539	\$10,005,020	
Louisiana Tech University	University	2000	1	\$27,416,579	0	0	\$152,670	13	7	0	14		\$140,000	\$146,295	
Marquette University	University	1999	1.5	\$37,087,000	1	1	\$2,000	13	17	2	15	5	\$2,000	\$2,000	
Massachusetts Institute of Technology	University	1940	26	\$1,877,697,000	103	36	\$87,400,000	734	388	24	1417	437	\$12,900,000		
Mayo Foundation for Medical Education and Research	Hospital / Research Institution	1986	26.94	\$1,013,000,000	157	11	\$112,999,963	663	132	16	1190	92	\$80,931,955	\$106,575,248	
Medical College of Wisconsin Research Foundation	University	1984	2	\$316,486,000	8	0	\$958,000	34	29	2	64	14	\$133,000	\$710,000	
Medical University of South Carolina	University	1994	4	\$523,137,982	13	10	\$1,093,386	101	34	4	108	15	\$994,586	\$1,093,386	



I	INSTITUTION					KEY	METRICS	<b>OTHER BENCHMARKS</b>						
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Total Licenses	Total Options	Gross License Income	Disclosures	New Patent Applications	Startups	Active Licenses and Options	Issued Patents	Running Royalties	Adjusted Gross Income
Memorial Sloan Kettering Cancer Center	Hospital / Research Institution	1981	22	\$855,000,000	152	4	\$124,995,114	153	148	2		66	\$23,079,418	\$124,714,022
Michigan State University	University	1992	9	\$710,178,000	31	9	\$3,995,268	120	71	3	391	41	\$3,351,888	\$3,959,561
Michigan Technological University	University	1988	1	\$81,715,393	13	1	\$121,965	23	7	1	209	5	\$0	\$121,965
Mississippi State University	University	1995	5	\$275,143,000	17	3	\$183,000	23	28	1	58	8	\$125,000	\$183,000
Montana State University	University	1980	2.4	\$193,000,000	7	6	\$535,435	14	13	3	220	6	\$467,360	\$535,435
Morgan State University	University	2016	2	\$20,627,968	2	5	\$500	30	28	2	9	6	\$0	\$500
Mount Sinai School of Medicine	University	1991	13.57	\$679,200,010	43	17	\$15,987,404	160	67	7	330	25	\$9,871,670	\$13,035,727
Nationwide Children's Hospital	Hospital / Research Institution	2008	5	\$177,841,737	11	7	\$69,850,747	72	37	2	89	11	\$25,110,373	\$68,965,531
New York University	University	1989		\$819,889,000	66	6	\$19,204,798	194	103	17	722	62	\$11,818,212	\$17,954,798
North Carolina State University	University	1984	6	\$547,118,000	121	82	\$5,892,445	270	88	20	1591	52	\$3,448,385	
Northeastern University	University	2000	1	\$166,376,400	10	4	\$807,833	129	243	14	49	40	\$300	\$807,833
Northwestern University	University	1990	10.9	\$707,657,523	92	19	\$16,814,768	235	165	16	428	111	\$12,858,201	\$4,861,624
Ohio State University	University	1990	7.5	\$1,236,110,895	48	16	\$3,234,878	306	137	14	269	60	\$550,724	\$3,231,521
Ohio University	University	1991	2	\$49,764,000	4	2	\$250,165	21	14	3	12	8	\$200,165	\$250,165
Oklahoma State University	University	1995	4	\$387,556,013	17	4	\$2,829,623	45	28	4	89	11	\$2,563,491	\$2,659,633
Oregon Health & Science University	University	1989	5.58	\$459,225,793	103	17	\$3,672,407	100	38	6	565	28	\$1,016,782	\$3,478,001
Oregon State University	University	1980	4	\$276,955,000	40	6	\$3,552,376	76	20	3	549	15	\$2,832,959	\$3,552,376
Penn State University	University	1989	6.5	\$993,136,000	12	2	\$5,575,139	204	85	3	169	47	\$1,153,953	\$5,515,279
Princeton University	University	1986	5	\$389,690,353	14	7	\$12,954,210	106	87	9	84	57	\$12,388,995	\$5,374,535
Puerto Rico Science, Technology and Research Trust	University	2017	2.75	\$112,943,000	2	2	\$80,164	26	9	0	5	3	\$0	
Purdue Research Foundation	University	1988	17	\$687,624,000	159	51	\$5,712,376	394	234	13		187		
Rice University	University	1998	3	\$158,902,825	9	2	\$1,330,323	73	40	5	57	28	\$12,953	\$1,167,305
Rowan University	University	2013	2	\$46,053,017	1	0	\$180,847	23	16	1	8	3	\$68,825	\$180,847
Rutgers, The State University of New Jersey	University	1989	14.6	\$672,951,000	142	5	\$47,426,780	166	65	5	1,241	67	\$14,119,513	\$46,016,123
Research Foundation of the City University of New York	University	2006	3		1		\$59,159	29	6			8		\$59,159
San Diego State University	University	1997	2	\$56,566,281	8	0	\$521,456	45	13	0		7		



Taxas AAM University SystemUniversity <th< th=""><th>I</th><th>NSTITUTION</th><th></th><th></th><th colspan="8">KEY METRICS</th><th colspan="5"><b>OTHER BENCHMARKS</b></th></th<>	I	NSTITUTION			KEY METRICS								<b>OTHER BENCHMARKS</b>				
Sharkod University   University <th< th=""><th>Institution Name</th><th>Institution Type</th><th>-</th><th>Full-Time</th><th></th><th></th><th></th><th>Gross License Income</th><th>Disclosures</th><th></th><th>Startups</th><th>Licenses and</th><th>Issued Patents</th><th>Running Royalties</th><th>Adjusted Gross Income</th></th<>	Institution Name	Institution Type	-	Full-Time				Gross License Income	Disclosures		Startups	Licenses and	Issued Patents	Running Royalties	Adjusted Gross Income		
Bases AAM University System   University	St. Jude Children's Research Hospital	University	1995	3	\$520,687,000	8	0	\$13,035,670	48	19	0	271	16	\$11,597,241	\$12,813,948		
Interactive function for fields   University   University <td>Stanford University</td> <td>University</td> <td>1970</td> <td>25</td> <td>\$1,662,160,828</td> <td>123</td> <td>41</td> <td>\$117,910,895</td> <td>475</td> <td>391</td> <td>23</td> <td>1311</td> <td>224</td> <td>\$40,173,097</td> <td>\$114,517,932</td>	Stanford University	University	1970	25	\$1,662,160,828	123	41	\$117,910,895	475	391	23	1311	224	\$40,173,097	\$114,517,932		
The Back Instruction for The Skill   Inventity	Texas A&M University System	University	1992	2	\$1,147,719,561	51	23	\$5,922,652	231	132	5	445	50	\$290,963,651	\$5,731,265		
University of New YorkOffwardOffwardOffwardSSS	Texas Tech University System	University	1998	2	\$246,816,300	7	13	\$564,450	103	34	4	71	19	\$316,836	\$564,450		
Turks Linkversky Linkversky 1978 7 \$28,29,1,413 9 4 \$8,777,400 50 44 107 25 \$1,90,557 \$8,877,74,000 50 94,41,088 51 64,08 51 64 51 64 51 64 51 64 51 64 51 64 51 64 51 64 51	The Research Foundation for The State University of New York	University	1979	16.8	\$1,311,567,752	55	17	\$6,444,336	335	185	13	473	85	\$3,238,799	\$6,405,359		
University of Akron University 1995 \$17,34,000 5 0 \$41,698 31 48 3 44 31 \$41,698 \$41,698   University of Akbana in Huntsville University 1999 1 \$12,840,0378 2 6 \$202,459 54 12 0 10 14 \$202,459 \$202,459   University of Akbana in Huntsville University 1998 12 \$313,857,684 2 6 \$202,459 2 0 0 0 \$41,688 \$41,688   University of Akbanas for Medical Science University 1998 2 \$377,031,000 2 6 \$31,857,61 41 17,7 6 6 6 6 5 6 7 6 <t< td=""><td>The Salk Institute for Biological Studies</td><td>Hospital / Research Institution</td><td>1982</td><td>4</td><td>\$124,553,000</td><td>13</td><td>2</td><td>\$7,635,519</td><td>29</td><td>12</td><td>2</td><td>203</td><td>11</td><td>\$4,154,354</td><td>\$6,792,558</td></t<>	The Salk Institute for Biological Studies	Hospital / Research Institution	1982	4	\$124,553,000	13	2	\$7,635,519	29	12	2	203	11	\$4,154,354	\$6,792,558		
University of Akabama in HuntsvilleUniversity19991\$126,403,97826\$202,459541201014\$202,459\$202,459University of Akabama in HuntsvilleUniversity201111\$135,688,0002058,600,002828200058,700,788\$202,459\$58,700,788\$58,700,788\$58,700,788\$58,680,2082715317456100\$5,70,788\$58,680,208\$58,700,788\$58,900,788 <td< td=""><td>Tufts University</td><td>University</td><td>1978</td><td>7</td><td>\$209,514,413</td><td>9</td><td>4</td><td>\$8,777,946</td><td>80</td><td>54</td><td>4</td><td>107</td><td>25</td><td>\$1,990,557</td><td>\$8,772,716</td></td<>	Tufts University	University	1978	7	\$209,514,413	9	4	\$8,777,946	80	54	4	107	25	\$1,990,557	\$8,772,716		
University of Alaska Fairbanks   University   2011   1.2   \$\$135,588,00   2   0   0     University of Arizona   University   1988   8.26   \$770,031,000   94   30   \$8,603,693   274   153   177   456   100   \$6,750,788   \$8,6468,923     University of Arkanas for Medical   University   1994   1994   1   6   \$3,129,723   65   47   5   319   28   \$2,848,255   \$3,129,248     University of Arkanass, Fayetteville   University   1999   7   \$164,400,000   28   67   \$13,5170,000   1628   905   80   -   620   \$28,948,25   \$3,129,248     University of Chrintal System   University   1995   45   \$52,050,000,000   28   67   \$13,5170,000   1628   905   80   -   620   \$28,948,02   \$27,437,000   101   142   \$65,01,000   \$12,24,37,000   101   142   \$61,003,00   \$12,24,75,95   165   72   43   5	University of Akron	University	1995		\$17,340,000	5	0	\$41,698	31	48	3	44	31	\$41,698	\$41,698		
University of Arkanasa for Medical UniversityUniversity19888.8 $577,0.31,000$ 9430 $58,60,693$ 27415377 $456$ 100 $86,750,788$ $58,468,923$ University of Arkanasa for Medical UniversityUniversity19947 $5113,957,684$ 30 $$11,06,618$ 411726218 $$3899,400$ $$11090,686$ University of Arkanasa, FayettevilleUniversity199077 $$164,400,000$ 416 $$3,129,723$ 6547531928 $$28,284,255$ $$3,129,248$ University of California SystemUniversity199549657,50,000,00028667 $$135,170,00$ 1629056014264 $$1,009,736$ $$22,743,700$ University of California SystemUniversity198557 $$21,69,89,000$ 189 $$22,716,100$ 11167014264 $$1,009,736$ $$21,743,700$ University of California SystemUniversity198551313 $$22,020,000$ 14615628261452828,78228,782University of California SystemUniversity19834.6 $$227,863,613$ 147 $$22,689,452$ 26744325417530\$22,782\$242,513University of ColoradoUniversity19834.6 $$30,232,900$ 47 $$1,121,166$ 9152511530\$36,098,402	University of Alabama in Huntsville	University	1999	1	\$126,403,978	2	6	\$202,459	54	12	0	10	14	\$202,459	\$202,459		
University of Arkanasas for Medical Sciences   University   1994   \$\$113,957,684   3   0   \$\$11,06,718   4.1   17   62   18   \$\$869,00   \$\$11,090,786     University of Arkanasas, Fayettaville   University   1990   7   \$\$164,000,000   41   6   \$\$3,129,223   65   47   5   20   26   \$\$2,848,255   \$\$127,470,000   100 versity   \$\$100,0000   1628   98   6   650,18,000   \$\$127,470,000   100 versity   100 versity   1985   \$\$219,596,000   18   9   \$\$2,716,130   111   57   0   142   64   \$\$10,09,730   \$\$22,716,503   14   7   \$\$20,250,000   146   136   5   382   42   \$\$10,80,000   \$\$13,320,000   146   136   5   382   42   \$\$10,90,000   \$\$127,470,000   141   14   7   \$\$20,557   165   72   4   200   28   \$\$25,782   \$\$42,5613     University of Colorado   University   1993   11 <t< td=""><td>University of Alaska Fairbanks</td><td>University</td><td>2011</td><td>1.2</td><td>\$135,588,000</td><td>2</td><td>0</td><td>\$6,500</td><td>28</td><td>2</td><td>0</td><td>0</td><td></td><td></td><td></td></t<>	University of Alaska Fairbanks	University	2011	1.2	\$135,588,000	2	0	\$6,500	28	2	0	0					
Sciences   Differences   Offerences   Offerences <thofferences< th="">   Offerences   Ofference</thofferences<>	University of Arizona	University	1988	8.25	\$770,031,000	94	30	\$8,603,693	274	153	17	456	100	\$6,750,788	\$8,468,923		
University of California SystemUniversity197998.6\$7,500,000,00028667\$135,170,000162890580620\$60\$127,437,000University of Central FloridaUniversity19855\$218,596,000189\$2,716,13011157014264\$1,009,736\$2,27,15,555University of ChicagoUniversity198613\$436,115,566313\$2,202,00014613658242\$10,600,000\$19,320,000University of ChicagoUniversity19834.6\$272,560,631147\$520,55716572432547545\$242,563,999University of ColoradoUniversity199311\$1,214,789,7828524\$22,689,4522674432544545\$742,705\$22,553,999University of ColoradoUniversity19874.2\$302,329,00047\$1,121,1669152511530\$35,733\$1,091,812University of FloridaUniversity19874.2\$302,329,00047\$1,121,166915.247140\$36,098,02\$44,48,135University of GeorgiaUniversity19874\$292,097,000102\$267,5247218214711\$148,239\$250,886\$46,60,476University of HawaiiUniversity19874\$29,097,0001113\$66,06,	•	University	1994		\$113,957,684	3	0	\$1,106,618	41	17	2	62	18	\$869,400	\$1,090,868		
University of Central FloridaUniversity19855\$278,596,000189\$2,716,13011157014264\$1,009,736\$2,715,557University of ChicagoUniversity198613\$436,115,586313\$22,020,000146136538242\$10,600,000\$19,320,000University of ChicagoUniversity19834.6\$272,560,6311477\$520,557165724420028\$25,782\$425,639University of ColoradoUniversity199311\$1,21,789,7828524\$22,689,4522674432547545\$742,705\$22,553,999University of ColoradoUniversity19874.2\$302,329,000477\$1,121,1669152511530\$357,733\$1,013,181University of FloridaUniversity19874.2\$302,329,000477\$41,002,0213154397140\$36,098,802\$40,488,135University of FloridaUniversity19877\$493,944,00011833\$1,086,604152447142636\$9,953,858\$8,650,042University of HavaiiUniversity19874\$292,097,00102\$267,5247218214711\$148,239\$250,869University of HousonUniversity19866\$203,100,001113\$66,068,7677 <td>University of Arkansas, Fayetteville</td> <td>University</td> <td>1990</td> <td>7</td> <td>\$164,400,000</td> <td>41</td> <td>6</td> <td>\$3,129,723</td> <td>65</td> <td>47</td> <td>5</td> <td>319</td> <td>28</td> <td>\$2,848,255</td> <td>\$3,129,248</td>	University of Arkansas, Fayetteville	University	1990	7	\$164,400,000	41	6	\$3,129,723	65	47	5	319	28	\$2,848,255	\$3,129,248		
University of ChicagoUniversity198613\$436,115,586313\$22,202,000146136538242\$10,600,000\$19,320,000University of ChicanatiUniversity19834.6\$272,560,631147\$\$20,557165724420028\$\$25,782\$425,633University of ChicanatiUniversity198311\$1,21,789,7828524\$22,689,4522674432547545\$742,705\$22,53,990University of ChicanatiUniversity19874.2\$302,322,00047\$1,121,16691525130\$357,733\$1,01,18University of FloridaUniversity19837\$\$59,966,82321857\$41,002,0213154397140\$36,988,802\$40,488,165University of GeorgiaUniversity19877\$493,944,00011833\$10,865,604152447140\$36,988,802\$40,488,165University of HunotiUniversity19874\$292,097,0001113\$66,06,876776945726\$65,254,782\$66,06,876University of HunotiUniversity198114.5\$1,161,126,0008126\$65776945726\$65,254,782\$66,06,876University of Luiona-University198114.5\$1,161,126,0008126\$65,64,71035246 <t< td=""><td>University of California System</td><td>University</td><td>1979</td><td>89.5</td><td>\$7,500,000,000</td><td>286</td><td>67</td><td>\$135,170,000</td><td>1628</td><td>905</td><td>80</td><td></td><td>620</td><td>\$65,018,000</td><td>\$127,437,000</td></t<>	University of California System	University	1979	89.5	\$7,500,000,000	286	67	\$135,170,000	1628	905	80		620	\$65,018,000	\$127,437,000		
University of CloinantiUniversity19834.6\$272,560,6311.47\$520,5571.657.24.42.002.8\$25,782\$425,613\$42University of CloiradoUniversity199311\$1,214,789,7828524\$22,689,4522.674.43254.754.54.5\$742,705\$22,553,999University of ConnecticutUniversity19674.2\$302,329,00047\$1,121,166915251.1530\$357,733\$1,091,812University of FloridaUniversity19837\$559,966,8232.1857\$41,002,0213.154.3974.06\$36,098,002\$40,488,135University of GeorgiaUniversity19977\$493,94,0001.183.3\$10,865,6041.524.471.4236\$9,953,858\$8,660,042University of HawaiiUniversity19874\$292,097,0001.02\$267,5247.21.821.471.1\$148,239\$250,808University of HoustonUniversity19866\$203,100,0001.11.3\$66,006,8767.76.94572.6\$65,254,782\$66,006,876University of Illinois at Urbana- ChampaignUniversity19811.4.5\$1,111,26,0008.12.6\$45,649,1703.551.5086.671.03\$34,683,608\$45,542,622University of Illinois at Urbana- Champaign	University of Central Florida	University	1985	5	\$218,596,000	18	9	\$2,716,130	111	57	0	142	64	\$1,009,736	\$2,715,555		
University of ColoradoUniversity199311 $\$1,214,769,782$ 8524 $\$22,689,452$ 2674432547545 $\$742,705$ $\$22,553,999$ University of ConnecticutUniversity19874.2 $\$302,329,000$ 47 $\$1,121,166$ 9152511530 $\$357,733$ $\$1,091,812$ University of FloridaUniversity19837 $\$959,966,823$ 21857 $\$41,002,021$ 315439740 $\$36,098,802$ $\$40,488,135$ University of GeorgiaUniversity19797 $\$493,944,000$ 11833 $\$10,865,604$ 152447142636 $\$9,953,858$ $\$8,650,042$ University of HoustonUniversity19874 $\$292,097,000$ 102 $\$267,524$ 7218214711 $\$148,239$ $\$250,809$ University of HoustonUniversity19866 $\$203,100,000$ 1113 $\$66,006,876$ 776945726 $\$65,254,782$ $\$66,006,876$ University of Illinois at Urbana- ChampaignUniversity198114.5 $\$1,161,126,000$ 8126 $\$45,649,170$ 3551508667103 $\$34,683,608$ $\$45,542,622$ University of low a Research FoundatioUniversity19753 $\$532,015,218$ 389 $\$1,812,303$ 101335224629 $\$1,028,992$ $\$1,113,769,762$	University of Chicago	University	1986	13	\$436,115,586	31	3	\$22,020,000	146	136	5	382	42	\$10,600,000	\$19,320,000		
University of ConnecticutUniversity19874.2\$302,329,00047\$1,121,669152511530\$357,733\$1,091,61University of FloridaUniversity19837\$959,966,82321857\$41,002,0213154397140\$36,098,002\$40,488,135University of GeorgiaUniversity19797\$493,944,00011833\$10,865,604152447142636\$9,953,658\$86,60,042University of HawaiiUniversity19874\$292,097,000102\$267,5247218214711\$148,239\$250,809University of HoustonUniversity19866\$203,100,0001113\$66,006,876776945726\$65,254,782\$66,006,876University of Illinois at Urbana- ChampaignUniversity198114.5\$1,161,126,0008126\$45,649,1703551508667103\$34,683,608\$45,542,622University of UniversityUniversity19753\$523,015,218389\$1,812,30310133524629\$1,028,929\$1,811,313	University of Cincinnati	University	1983	4.6	\$272,560,631	14	7	\$520,557	165	72	4	200	28	\$25,782	\$425,613		
University of FloridaUniversity19837\$959,966,82321857\$41,002,0213154397140\$36,098,802\$40,488,135University of GeorgiaUniversity19077\$493,944,00011833\$10,865,604152447142636\$9,953,858\$8,650,042University of HawaiiUniversity1987495292,097,000102\$267,5247218214711\$148,239\$250,808University of HoustonUniversity19966\$203,100,0001113\$66,006,876776945726\$65,254,782\$66,006,876University of Illinois at Urbana- ChampaignUniversity198114.5\$1,161,126,0008126\$45,649,1703551508667103\$34,683,608\$45,542,622University of Illinois at Urbana- ChampaignUniversity19753\$523,015,218389\$1,812,30310133524629\$1,028,992\$1,811,373	University of Colorado	University	1993	11	\$1,214,789,782	85	24	\$22,689,452	267	443	25	475	45	\$742,705	\$22,553,999		
University of GeorgiaUniversity19797\$493,944,00011833\$10,865,604152447142636\$9,953,858\$8,650,42University of HawaiiUniversity19874\$292,097,000102\$267,5247218214711\$148,239\$250,809University of HoustonUniversity19966\$203,100,0001113\$66,006,876776945726\$65,254,782\$66,006,876University of Illinois at Urbana- ChampaignUniversity198114.5\$1,161,126,0008126\$45,649,1703551508667103\$34,683,608\$45,542,622University of Illinois at Urbana- ChampaignUniversity19753\$38,500,121389\$1,812,30310133524629\$1,028,992\$1,811,375	University of Connecticut	University	1987	4.2	\$302,329,000	4	7	\$1,121,166	91	52	5	115	30	\$357,733	\$1,091,812		
University of HawaiiUniversity19874\$292,097,000102\$267,5247218214711\$148,239\$250,809University of HoustonUniversityUniversity19966\$203,100,0001113\$66,006,876776945726\$65,254,782\$66,006,876University of Illinois at Urbana- ChampaignUniversity198114.5\$1,161,126,0008126\$45,649,1703551508667103\$34,683,608\$45,542,622University of Illinois at Urbana- ChampaignUniversity198114.5\$32,015,218389\$1,812,30310133524629\$1,028,992\$1,811,375	University of Florida	University	1983	7	\$959,966,823	218	57	\$41,002,021	315	439	7		140	\$36,098,802	\$40,488,135		
University of HoustonUniversity19966\$203,100,0001113\$66,006,876776945726\$65,254,782\$66,006,876University of Illinois at Urbana- ChampaignUniversity198114.5\$1,161,126,0008126\$45,649,1703551508667103\$34,683,608\$45,542,622University of Illinois at Urbana- ChampaignUniversity19753\$522,015,218389\$1,812,30310133524629\$1,028,992\$1,811,375	University of Georgia	University	1979	7	\$493,944,000	118	33	\$10,865,604	152	44	7	1426	36	\$9,953,858	\$8,650,042		
University of Illinois at Urbana- Champaign University 1981 14.5 \$1,161,126,000 81 26 \$45,649,170 355 150 8 667 103 \$34,683,608 \$45,542,622   University of lowa Research Foundation University 1975 3 \$852,015,218 38 9 \$1,812,303 101 33 5 246 29 \$1,028,992 \$1,811,375	University of Hawaii	University	1987	4	\$292,097,000	10	2	\$267,524	72	18	2	147	11	\$148,239	\$250,809		
Champaign Oniversity 1981 14.5 \$1,161,126,000 81 26 \$45,649,170 355 150 8 667 103 \$54,663,008 \$45,942,622   University of lowa Research Foundation University 1975 3 \$532,015,218 38 9 \$1,812,303 101 33 5 246 29 \$1,028,992 \$1,811,375	University of Houston	University	1996	6	\$203,100,000	11	13	\$66,006,876	77	69	4	57	26	\$65,254,782	\$66,006,876		
	University of Illinois at Urbana- Champaign	University	1981	14.5	\$1,161,126,000	81	26	\$45,649,170	355	150	8	667	103	\$34,683,608	\$45,542,622		
University of Kansas University 1994 5 \$292,575,520 34 2 \$6,743,677 61 43 5 134 40 \$5,338,461 \$6,735,449	University of Iowa Research Foundation	University	1975	3	\$532,015,218	38	9	\$1,812,303	101	33	5	246	29	\$1,028,992	\$1,811,375		
	University of Kansas	University	1994	5	\$292,575,520	34	2	\$6,743,677	61	43	5	134	40	\$5,338,461	\$6,735,449		



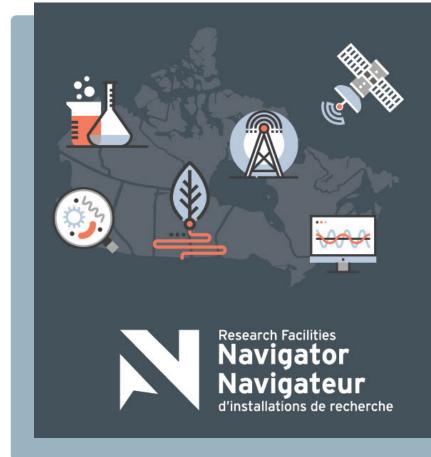
1	NSTITUTION		KEY METRICS								<b>OTHER BENCHMARKS</b>					
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Total Licenses	Total Options	Gross License Income	Disclosures	New Patent Applications	Startups	Active Licenses and Options	Issued Patents	Running Royalties	Adjusted Gross Income		
University of Kentucky Research Foundation	University	1984	10	\$466,458,444	27	13	\$2,652,832	99	67	6	179	22	\$1,437,854	\$2,632,933		
University of Louisville	University	1996	2.75	\$200,362,000	15	2	\$833,311	77	44	2	79	37	\$181,697	\$833,311		
University of Massachusetts System	University	1995	10	\$751,862,000	31	10	\$33,572,828	152	84	6	331	118	\$15,666,068	\$33,019,467		
University of Miami	University	1989	3.2	\$375,600,000	22	8	\$20,283,521	133		7	212		\$12,840,405			
University of Michigan	University	1982	18	\$1,584,463,008	251	46	\$42,930,724	502	188	23	805	169	\$14,421,662	\$40,534,536		
University of Minnesota	University	1957	21.5	\$1,098,424,000	188	48	\$17,356,853	332	136	20	831	142	\$10,551,234	\$16,933,881		
University of Mississippi	University	1992	2.5	\$63,749,280	1	0	\$318,069	20	4	0	17	4	\$120,364	\$273,069		
University of Missouri, all campuses	University	1987	6.9	\$491,758,866	66	10	\$5,990,163	172	61	3	448	36	\$2,702,300	\$5,600,502		
University of Nebraska	University	1992	8.73	\$498,766,506	52	13	\$8,628,260	197	239	8	311	55	\$6,176,598	\$8,371,062		
University of Nevada at Reno	University	2000	1	\$175,386,000	6	1	\$472,299	34	25	2	35	4	\$317,427	\$470,979		
University of New Hampshire	University	1997	2.5	\$138,000,000	138	0	\$1,385,366	106	1	1	736	7	\$244,939	\$1,374,944		
University of New Mexico/Sci. & Tech. Corp.	University	1995	5	\$332,565,903	18	25	\$54,521,482	81	64	6	86	54	\$227,372	\$54,446,632		
University of North Carolina, Chapel Hill	University	1985	10	\$908,207,588	78	8	\$31,518,615	149	81	12	550	58	\$3,274,844	\$30,969,876		
University of North Carolina, Charlotte	University	1993	2	\$45,689,727	5	4	\$100,044	16	46	3	21	13	\$71,793	\$100,044		
University of North Florida	University	2010	0.5	\$15,782,000	0	0	\$357	0	7	0	7	6	\$357	\$357		
University of North Texas Denton	University	2015	2	\$81,100,000	34	1	\$155,023	45	25	0	44	8	\$0	\$153,560		
University of North Texas Health Science Center	University	1999	1.4	\$53,338,710	3		\$105,718	17	6		35	3	\$2,718	\$98,218		
University of Northern Iowa	University	2002	0.1	\$46,500,000	2	2	\$38,000	12	2	1	13	2	\$35,000	\$38,000		
University of Notre Dame	University	1999	3	\$222,708,801	14	1	\$863,007	67	69	6	118	24	\$387,768	\$856,939		
University of Oklahoma, all campuses	University	1984	4	\$288,382,012	6	1	\$490,607	56	32	2	64	26	\$300,607	\$416,612		
University of Oregon	University	1992	4.25	\$90,700,000	1349	2	\$9,183,710	41	7	1	1613	12	\$906,758	\$9,036,980		
University of Pennsylvania	University	1986	18	\$1,121,058,790	233	56	\$310,163,188	328	141	24	1208	142	\$199,467,750	\$308,814,313		
University of Pittsburgh	University	1992	7.8	\$953,965,000	86	23	\$9,068,196	315	117	17	625	124	\$4,643,259	\$8,740,365		
University of Rochester	University	1980	4	\$417,976,000	39	10	\$2,257,111	101	49	3	191	38	\$784,463	\$2,174,699		
University of South Carolina	University	1993	1	\$215,374,000	2	4	\$102,828	63	58	5	15	39	\$8,408	\$102,828		
University of South Florida	University	1990	8	\$405,000,000	69	29	\$2,256,524	192	119	11						



1	INSTITUTION						METRICS	<b>OTHER BENCHMARKS</b>						
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Total Licenses	Total Options	Gross License Income	Disclosures	New Patent Applications	Startups	Active Licenses and Options	Issued Patents	Running Royalties	Adjusted Gross Income
University of Southern California	University	1971	12	\$955,565,000	53	6	\$5,910,688	249	97	11	373	69	\$4,858,578	\$5,797,453
University of Tennessee	University	1983	5	\$437,228,552	44	7	\$1,074,900	175	51	5	262	32	\$200,067	\$1,002,116
University of Texas System	University	1985	56.67	\$3,523,588,592	323	46	\$127,836,794	755	406	26	1775	253	\$31,256,389	\$112,625,154
University of Toledo	University	1994	3	\$53,169,000	7	4	\$1,204,490	49	13	1	102	25	\$774,385	\$1,204,456
University of Utah	University	1968	20	\$624,737,000	32	5	\$34,283,595	265	79	15	231	56	\$32,652,109	\$34,127,498
University of Virginia Patent Foundation	University	1977	5.5	\$611,312,910	72	20	\$11,787,784	172	115	4	696	44	\$1,158,799	\$11,744,472
University of Washington	University	1983	9.89	\$1,890,000,000	402	11	\$23,683,812	277	163	9	1569	88	\$4,486,878	\$22,496,805
University of Wisconsin-Madison/ Wisconsin Alumni Research Foundation	University	1925		\$1,380,075,000	50	18	\$17,820,000	359	114	3	704	170	\$9,620,000	\$17,649,000
University System of Maryland	University	1987	10.5	\$1,143,455,058	56	25	\$2,922,208	313	200	22	530	134	\$1,489,466	
University Wisconsin-Milwaukee Research Foundation	University	2000	3	\$54,949,031	7	1	\$22,591	30	9	2	52	8	\$9,091	\$22,591
Vanderbilt University	University	1990	12.25	\$1,019,273,243	84	15	\$11,415,330	173	124	8	773	76	\$2,724,693	\$10,863,083
Virginia Commonwealth University	University	1994	3	\$364,096,198	18	6	\$3,755,301	160	170	7	260	29	\$1,955,957	\$3,712,176
Virginia Tech Intellectual Properties, Inc.	University	1985	3	\$542,045,000	25	2	\$1,448,966	142	145	7	277	36	\$1,448,966	\$1,198,763
Wake Forest University	University	1985	5	\$225,992,619	7	1	\$926,853	38	35	1	67	10	\$771,953	\$926,853
Washington State University	University	1985	7	\$227,717,556	37	30	\$9,492,215	61	48	3	362	24	\$8,775,720	\$9,476,975
Washington University in St. Louis	University	1986	10	\$953,000,000	154	9	\$58,227,731	241	187	6	733	70	\$3,046,775	\$58,013,277
Wayne State University	University	1988	3	\$235,519,000	8	5	\$355,058	33	16	2	62	23	\$94,023	
West Virginia University	University	1999	1	\$105,732,972	2	6	\$163,301	49	20	2	24	16	\$2,201	\$163,301
Whitehead Institute for Biomedical Research	Hospital / Research Institution	1987	5	\$48,766,000	7	1	\$33,339,550	14	7	0	120	5	\$27,034,430	\$323,566,361
Wistar Institute	Hospital / Research Institution	1991	1	\$68,226,000	54	6	\$5,044,000	61	28	0	161	6	\$2,772,000	\$4,989,069
WiSys Technology Foundation	University	2005	4	\$119,392	5	1	\$18,816	65	8	3	13	10	\$8,016	\$18,816
Worcester Polytechnic Institute	University	2012	1	\$38,425,000	12	2	\$217,500	42	33	5	33	17	\$0	\$217,500
Wright State University	University	2001	0	\$26,259,000	0	0	\$2,324	3	0	0	4	2	\$2,324	\$2,324
Yale University	University	1983	6	\$876,937,000	144	19	\$10,303,436	221	592	14	690	73	\$5,689,820	\$9,872,126



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# INVENTION DISCLOSURE

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### **E**DITOR

**Justin Kok** Delft University of Technology, Delft, Netherlands

*Invention Disclosure* is an open-access journal that provides an outlet for inventors, researchers, and technology transfer professionals to easily share and advertise inventions.

The journal aims to publish invention disclosure forms that:

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- Make inventions easier to find by potential investors, collaborators, licensing experts and patent examiners, opening up doors for new collaborations
- Increase traffic towards associated research articles and data, leading to more citations
- Bridge the gap between the scientific discovery process and the commercialisation of research.

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## Invention Disclosure

Elements



## Research Elements

### **About the Survey**

AUTM invited 312 US institutions — universities and colleges, hospitals and research institutions, national laboratories and third-party technology investment firms — to participate in the AUTM 2021 US Licensing Activity Survey. AUTM received 155 completed surveys, for a response rate of 50%. The numbers from these institutions reflect the significant role played by technology transfer in today's innovation economy.

Most of the data collected in this survey is also available in AUTM's Statistics Access for Technology Transfer (STATT) Database. To access this searchable database of 30 years of academic licensing data, visit <u>www.autm.net/statt</u>.

### **Suggested Citation**

AUTM report titled AUTM US Licensing Activity Survey: 2021, A Survey Report of Technology Licensing (and Related) Activity for US Academic and Nonprofit Institutions and Technology Investment Firms can also be referenced by its abbreviated title, AUTM US Licensing Activity Survey: 2021, editors John Miner, Stephen Susalka, Paul Stark and Jordana Bieze Foster.

### **About AUTM**

AUTM is the nonprofit leader in efforts to educate, promote and inspire professionals to support the development of academic research that changes the world and drives innovation forward. Our community comprises more than 3,000 members who work in more than 800 universities, research centers, hospitals, businesses and government organizations around the globe.



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