Top US universities, institutes for life sciences in 2012

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Using information from the Association of University Technology Managers (AUTM), *Nature Biotechnology* selected the top universities by total gross licensing revenue received over a 5-year span. We then contacted universities to discern their licensing revenue, licenses and

startups attributed solely to the life sciences (Table 1). AUTM data for biomedical research institutes is found in Table 2, using the same 5-year initial filter. Figure 1 shows that, for the universities in Table 1, life sciences are more than carrying their weight.

Table 1 US universities listed by licenses executed, licensing revenue and startups launched related to life sciences in 2012

University ^a	Licenses and/or options executed	Gross licensing revenue received (\$M)	Startups
University of California System	181	78.7	37
University of Washington/Washington Research Foundation	161	69.7	5
Columbia University	52	145	8
University of Minnesota	39	42.8	4
Northwestern University	36	121.2	3
New York University	35	178.9	5
University of Massachusetts	28	52.3	2
University of Rochester	17	37	1
Princeton University	8	124	0

See Figure 1 for further data.

^aMassachusetts Institute of Technology, Stanford University, University of Texas System and WARF/University of Wisconsin–Madison ranked high in total gross revenue but were not able to break out results for life sciences. Source: AUTM and university technology transfer offices

Table 2 US biomedical research institutes listed by licenses executed, licensing revenue and startups in 2012

Research institute	Licenses and/or options executed	Gross licensing revenue received (\$M)	Startups
Massachusetts General Hospital	196	99.7	3
Mayo Foundation for Medical Education and Research	85	28.8	5
Brigham and Women's Hospital	54	8.9	7
Memorial Sloan-Kettering Cancer Center	40	143.2	2
Cleveland Clinic	38	15.8	7
Boston Children's Hospital	30	10.3	0
Icahn School of Medicine at Mount Sinai	25	76	0
City of Hope/Beckman Research Institute	7	224.4	1
Cedars-Sinai Medical Center	7	17.2	1
Children's Hospital of Philadelphia (CHOP) ^a	7	0.469	0
Wistar Institute	6	17.8	0

^aOn April 24, 2008, The Children's Hospital Foundation (parent company to CHOP) sold its worldwide royalty interest for sales of RotaTeg from and after October 1, 2007, to Royalty Pharma for \$182 million in cash. This landed CHOP on our list. Source: AUTM

Figure 1 The life sciences account for the majority of incoming revenue, outgoing licenses and startups. (a–c) The number of both overall and life sciences gross revenue, executed licenses and startups, calculated from our list of selected universities (Table 1).

First Rounders Podcast: George Yancopoulos

Yancopoulos was the founding scientist of Regeneron. Today, he's the president of Regeneron Laboratories and the company's CSO. *Nature Biotechnology* talked to him about the scientific foundation at Regeneron, upholding the family name and giving back through teaching. <http://www.nature.com/nbt/podcast/index.html>

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