



APPENDIX TABLE 8-12

USPTO patents granted in biotechnology, by region, country, or economy: 2000–16

(Number)

Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	3,713	4,215	3,830	3,473	3,039	2,654	3,685	3,696	3,377	3,525	4,524	4,659	4,803	5,044	5,595	5,601	5,747
North America	2,522	2,791	2,614	2,304	1,985	1,709	2,345	2,377	2,109	2,248	2,784	2,771	2,885	2,982	3,229	3,230	3,301
Canada	130	142	139	102	98	69	119	125	100	110	124	132	145	135	115	131	120
Mexico	3	4	2	2	2	1	1	0	1	3	4	2	5	5	4	2	4
Puerto Rico	0	1	0	0	0	0	1	1	0	0	1	0	1	0	0	1	2
United States	2,389	2,645	2,473	2,200	1,885	1,639	2,225	2,251	2,007	2,134	2,654	2,637	2,734	2,842	3,110	3,096	3,175
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Central and South America	4	7	7	8	8	4	15	12	9	13	16	14	18	19	20	32	23
Argentina	0	1	0	0	3	0	5	2	1	4	5	3	1	2	3	4	4
Brazil	2	4	3	4	4	2	7	6	3	4	6	5	9	9	7	18	11
All others	2	2	4	3	2	2	3	4	4	4	6	6	7	9	11	10	9
Europe	747	876	736	717	622	535	674	713	670	684	914	971	1,011	1,067	1,262	1,290	1,326
EU	687	813	678	669	581	492	623	653	612	626	831	884	931	984	1,146	1,190	1,213
Austria	18	17	16	14	10	13	9	16	11	18	21	27	22	36	46	39	41
Belgium	42	39	41	32	35	23	29	42	32	37	46	46	44	49	51	50	57
Denmark	59	68	47	58	30	30	44	39	38	38	63	83	77	98	112	94	108



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	10	14	10	9	11	10	12	10	16	13	21	16	13	12	17	17	27
France	116	141	107	127	85	87	105	104	94	91	114	130	145	157	175	186	200
Germany	158	212	174	195	188	142	193	187	190	177	251	243	265	259	312	334	293
Hungary	1	5	4	5	7	3	3	3	1	1	3	2	4	1	3	5	7
Ireland	2	4	2	3	4	2	4	3	2	5	7	8	5	8	6	9	10
Italy	22	21	26	20	13	17	27	22	25	24	45	41	45	52	48	56	58
Netherlands	66	56	52	39	40	43	43	47	46	54	58	70	67	79	110	102	117
Spain	9	10	8	7	8	8	10	12	14	15	15	19	28	22	38	35	27
Sweden	27	40	40	37	36	24	28	35	34	25	32	38	45	37	53	48	44
United Kingdom	149	179	145	120	109	86	108	124	102	119	138	148	162	154	158	193	184
All others	8	9	6	2	5	5	8	9	7	10	17	13	10	21	17	21	39
Other Europe	60	63	57	48	41	43	51	60	58	58	83	87	80	83	116	99	113
Former Soviet Union	0	1	1	1	2	0	1	2	1	0	1	1	1	2	1	1	2
Norway	8	6	3	7	8	5	4	7	6	10	9	10	11	13	16	17	18
Russia	9	7	12	6	7	10	9	17	16	15	20	25	14	15	17	12	18
Switzerland	42	47	38	31	23	27	35	31	29	28	50	50	52	50	74	66	73
All others	1	2	3	3	1	2	2	3	5	4	4	1	3	3	8	3	2
Asia	361	439	377	369	360	354	548	511	507	471	683	750	731	787	899	867	908
China	6	9	13	12	13	17	26	36	29	27	46	45	59	81	100	99	129



EU = European Union; USPTO = U.S. Patent and Trademark Office.

Note(s)

Patents are allocated according to patent inventorship information. Patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. The EU includes 28 member countries. China includes Hong Kong. Patents are classified under the World Intellectual Property Organization (WIPO) classification of patents, which classifies International Patent Classification (IPC) codes under 35 technical fields. IPC reformed codes take into account changes that were made to the WIPO classification in 2006 under the eighth version of the classification and were used to prepare these data. However, because PatentsView only provides the original IPC codes as they appeared on patents and not the IPC reformed codes, current Cooperative Patent Classification codes on patents were converted back to the most recent IPC classification to prepare these statistics. Fractional counts of patents were assigned to each technological field on patents to assign the proper weight of a patent to the corresponding technological fields under the classification.

Source(s)

Science-Metrix; PatentsView and USPTO patent data, accessed April 2017.

Science and Engineering Indicators 2018