



APPENDIX TABLE 8-16

USPTO patents granted in macromolecular chemistry, 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	2,939	3,200	3,267	3,112	2,798	2,028	2,189	1,856	1,562	1,740	2,677	2,637	2,764	3,187	3,423	3,361	3,371
North America	1,410	1,501	1,553	1,414	1,199	947	994	864	738	802	1,177	1,148	1,152	1,292	1,371	1,324	1,320
Canada	38	50	62	39	43	29	31	32	29	27	47	31	37	42	49	61	55
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	1	0	1	2	1	1	0	0	2	3	1	4	2	6	3	3	3
United States	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
All others	1,371	1,450	1,490	1,373	1,155	917	963	831	707	772	1,129	1,114	1,113	1,244	1,320	1,260	1,262
Central and South America	4	2	3	2	3	2	3	1	2	3	4	5	4	3	12	8	9
Argentina	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
Brazil	3	1	2	1	2	1	1	0	1	3	3	2	3	2	9	5	8
All others	0	1	0	1	1	0	1	1	1	0	1	0	1	0	3	2	1
Europe	745	824	814	852	774	505	562	466	362	382	654	604	686	819	865	814	785
EU	701	771	767	802	737	476	538	432	337	354	611	556	630	749	811	764	717
Austria	12	13	13	9	7	5	8	5	6	7	12	7	18	18	29	21	30
Belgium	52	73	63	54	39	33	35	29	23	23	57	39	49	70	61	58	48
Denmark	3	2	5	2	3	3	2	2	2	2	3	5	3	5	10	8	10



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Finland	12	18	17	17	12	9	5	7	9	7	13	8	9	19	16	18	17
France	84	92	88	94	89	66	69	62	43	48	74	77	86	112	119	107	106
Germany	353	385	371	419	403	246	288	203	169	154	270	272	294	328	379	332	287
Hungary	1	1	0	1	0	0	0	0	0	0	1	1	0	1	1	1	1
Ireland	1	1	0	2	1	4	1	1	3	1	4	4	6	4	6	2	2
Italy	59	68	71	59	60	32	53	39	34	48	54	45	53	56	55	56	63
Netherlands	45	53	63	68	54	23	27	36	16	26	50	37	44	48	56	63	56
Spain	5	3	4	5	4	4	4	3	1	3	5	6	5	6	8	14	7
Sweden	7	9	9	11	4	6	7	6	6	5	10	5	13	23	17	19	23
United Kingdom	60	49	56	47	56	38	34	34	19	23	48	43	42	51	45	54	57
All others	8	4	8	15	5	6	5	6	7	4	8	7	8	8	9	11	10
Other Europe	45	52	47	50	37	30	24	34	25	29	44	49	56	70	54	50	67
Former Soviet Union	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	2
Norway	2	4	4	10	6	5	5	2	2	4	3	6	4	7	4	3	5
Russia	6	6	2	3	2	1	1	5	3	5	5	2	3	4	5	4	6
Switzerland	34	41	38	35	28	23	15	23	16	17	32	37	45	57	42	42	52
All others	3	1	2	2	1	0	3	4	4	2	3	3	4	1	3	1	3
Asia	764	848	869	817	801	559	611	515	451	533	823	861	895	1,043	1,127	1,166	1,214
China	8	5	10	13	10	3	8	14	13	16	22	24	40	56	64	82	93



Region, country, or economy	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
India	7	9	9	8	12	10	11	14	10	14	21	14	16	15	32	25	24
Japan	679	768	773	704	673	468	511	421	361	431	644	666	667	764	800	760	796
Malaysia	1	0	0	1	2	1	0	0	0	1	1	3	2	3	6	1	3
Singapore	1	1	3	1	2	3	4	4	1	1	4	3	5	7	9	14	10
South Korea	47	43	53	67	77	56	61	47	53	54	96	108	120	145	162	212	230
Taiwan	21	22	21	23	23	17	15	15	12	15	32	43	44	50	52	65	56
All others	1	0	0	1	2	1	1	0	0	1	2	1	1	2	3	7	1
Middle East	7	8	10	14	8	8	10	5	2	11	6	11	14	18	34	33	31
Israel	6	7	5	10	4	6	4	3	2	10	4	9	8	10	16	16	15
All others	2	1	5	4	4	2	5	1	0	1	2	3	6	8	18	17	16
Africa	1	3	5	2	1	1	0	2	1	2	1	1	1	2	1	1	1
South Africa	1	3	5	1	1	0	0	2	0	2	1	1	1	1	0	0	0
All others	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1
Australia and Oceania	6	14	11	12	12	5	9	4	6	6	11	6	11	10	12	16	10
Australia	6	12	11	11	12	5	8	3	4	5	10	5	7	10	11	15	8
New Zealand	0	1	0	0	0	0	1	1	1	0	1	1	4	0	1	1	3
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0



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

**Note(s)**

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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)**

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

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