

## U.S. biotechnology patents granted, by residence of inventor/type of ownership: Pre-1990 and 1990–2003

Variable	Total	Pre-1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All residence countries/economies...	98,869	18,630	2,251	2,631	3,137	3,604	3,402	3,516	4,514	6,133	8,758	8,779	7,932	8,769	8,746	8,067
U.S. origin.....	62,903	11,164	1,284	1,650	1,919	2,229	2,129	2,193	2,960	4,200	5,862	5,845	5,201	5,751	5,523	4,993
Foreign origin .....	35,966	7,466	967	981	1,218	1,375	1,273	1,323	1,554	1,933	2,896	2,934	2,731	3,018	3,223	3,074
Japan.....	9,033	2,401	309	308	445	456	418	399	423	436	670	603	524	593	530	518
Germany.....	5,418	1,419	165	161	175	194	163	200	217	256	348	374	359	384	477	526
United Kingdom.....	3,407	698	84	76	78	94	114	105	136	218	303	317	299	315	311	259
France.....	3,100	646	107	107	99	112	92	100	134	202	262	250	226	257	242	264
Canada.....	2,638	302	51	59	64	77	68	89	115	169	237	290	280	301	286	250
Netherlands.....	2,212	340	58	48	74	98	96	59	73	104	170	174	218	152	310	238
Denmark.....	1,235	134	12	16	20	23	36	43	62	78	136	118	131	135	162	129
Australia.....	1,023	80	14	37	25	26	36	44	50	65	111	104	86	134	116	95
Switzerland.....	1,008	276	18	26	34	54	34	39	45	67	69	62	66	87	70	61
Israel.....	975	136	21	16	38	54	33	45	47	34	89	96	70	85	99	112
Italy.....	918	224	38	32	45	52	36	37	39	53	64	77	52	52	61	56
Sweden.....	850	182	14	14	22	26	20	31	34	48	73	78	67	85	77	79
Belgium.....	809	118	10	13	13	17	26	20	41	41	87	86	85	71	85	96
South Korea.....	387	6	4	3	5	12	8	11	21	19	28	50	34	70	57	59
Austria.....	371	67	9	4	11	12	16	10	18	32	44	33	27	30	29	29
Finland.....	291	48	9	8	11	7	8	13	14	18	28	38	25	28	17	19
India.....	279	9	1	2	3	5	1	7	8	9	15	16	20	38	63	82
New Zealand.....	246	46	4	5	10	8	10	6	6	8	12	27	22	16	33	33
Taiwan.....	207	7	1	2	3	3	9	6	5	8	20	20	17	38	39	29
Hungary.....	160	82	5	8	8	6	5	4	6	2	7	2	4	8	9	4
Spain.....	155	14	3	3	8	4	6	9	10	11	12	17	11	15	18	14
Norway.....	142	20	3	10	2	6	5	5	10	8	14	19	14	9	7	10
Russian Federation.....	118	NA	NA	NA	NA	NA	1	2	10	8	22	14	17	12	21	11
China.....	104	5	2	1	1	1	2	5	2	4	9	5	10	18	19	20
USSR.....	87	61	4	7	7	NA	NA	1	2	1	1	2	NA	NA	1	NA
Costa Rica.....	80	33	NA	3	NA	4	4	6	5	NA	4	2	1	9	5	4
South Africa.....	62	16	3	NA	1	2	1	2	NA	2	6	5	4	8	6	6
Ireland.....	56	3	NA	2	3	3	1	4	3	4	3	5	7	6	8	4
Mexico.....	53	7	4	2	2	3	1	5	NA	3	3	4	7	5	4	3
Czechoslovakia.....	50	31	3	2	1	2	2	1	1	1	NA	1	3	2	NA	NA
Brazil.....	47	5	1	1	NA	3	1	2	2	2	3	1	8	3	7	8
Hong Kong.....	39	NA	NA	NA	NA	1	1	5	1	1	2	3	4	6	9	6
Singapore.....	39	NA	NA	NA	NA	NA	2	NA	2	1	8	7	5	5	2	7
Cuba.....	31	1	NA	NA	NA	1	2	NA	NA	3	5	2	3	2	7	5
Greece.....	27	1	1	NA	NA	1	2	NA	3	NA	2	1	3	4	4	5
Argentina.....	21	5	1	NA	1	NA	1	1	1	3	2	1	1	2	2	NA
Other countries (57).....	288	43	8	5	9	8	12	7	8	14	27	30	21	33	30	33
Ownership																
United States																
Corporations.....	57,634	9,855	1,181	1,473	1,740	2,049	1,903	1,964	2,669	3,862	5,486	5,385	4,940	5,347	5,170	4,610
Government.....	1,934	311	50	52	80	97	95	95	113	140	190	189	134	145	129	114
Individuals.....	6,071	1,861	153	198	188	201	217	220	247	336	422	409	339	453	425	402

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Foreign																
Corporations .....	29,356	5,621	735	771	995	1,094	1,077	1,112	1,343	1,626	2,388	2,504	2,269	2,551	2,678	2,592
Government .....	525	163	29	28	31	33	19	18	21	24	41	42	23	20	20	13
Individuals.....	3,349	819	103	109	103	130	91	107	121	145	231	250	227	253	324	336

NA = not available

SOURCE: U.S. Patent and Trademark Office, Office of Electronic Information Products, Patent Technology Monitoring Division, special tabulations (2004).

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