

U.S. biotechnology patents granted, by organization: Pre-1990 and 1990–2003

Organization	Total	Pre-1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All patents	89,448	15,950	1,995	2,324	2,846	3,273	3,094	3,189	4,146	5,652	8,104	8,120	7,366	8,063	7,997	7,329
University of California	1,585	215	12	25	20	35	43	44	84	114	162	151	171	185	166	158
U.S. Department of Health and Human Services.....	1,021	110	19	18	32	53	63	52	72	92	126	107	74	81	67	55
Merck.....	943	344	25	43	36	71	51	33	33	43	52	57	33	46	39	37
Genentech	792	64	18	21	32	36	27	26	39	76	129	53	75	63	64	69
Yoder Brothers.....	729	204	14	47	18	38	53	22	29	35	28	22	14	77	87	41
Pioneer Hi-Bred International.....	693	8	1	3	13	4	19	20	51	26	106	92	109	110	61	70
Eli Lilly.....	674	243	19	20	15	21	15	26	58	51	42	51	35	30	24	24
Abbott	654	113	15	25	39	37	39	32	42	69	59	61	39	44	26	14
Smithkline Beecham	636	0	1	2	1	7	1	4	3	13	46	126	130	183	94	25
University of Texas.....	576	52	22	30	25	37	34	28	34	40	49	46	47	47	42	43
Incyte Pharmaceuticals	572	0	0	0	4	5	4	3	5	18	106	245	146	30	4	2
Boehringer Mannheim	549	190	26	29	33	36	34	38	32	40	43	30	11	5	0	2
Isis Pharmaceuticals.....	512	0	0	0	2	2	2	3	21	38	32	70	100	90	98	54
Novo Nordisk	490	0	1	4	10	15	23	18	31	64	79	92	80	49	14	10
Chiron	484	17	2	5	16	11	7	10	16	66	79	62	62	50	48	33
Du Pont De Nemours and Company	461	88	16	15	22	24	25	21	21	21	25	18	22	41	49	53
Becton, Dickinson	427	104	16	16	17	15	19	17	30	54	43	30	21	19	13	13
Hoffmann-La Roche	426	194	9	13	17	20	20	31	35	34	22	6	7	6	6	6
U.S. Department of Agriculture.....	418	73	15	20	17	23	14	24	16	26	35	41	27	32	26	29
General Hospital Corporation	414	33	7	4	11	13	16	8	23	33	46	56	40	49	35	40
Johns Hopkins University.....	412	18	3	9	5	14	12	12	15	27	58	68	51	45	49	26
Hoechst Aktiengesellschaft	402	123	13	17	32	24	20	21	21	36	35	28	24	3	3	2
Institut Pasteur	395	47	6	14	8	12	12	5	14	30	42	50	43	47	29	36
Miles	387	267	20	10	29	30	21	7	1	2	0	0	0	0	0	0
Takeda Chemical Industries.....	387	138	14	7	22	24	14	21	23	25	17	23	21	18	11	9
Human Genome Sciences.....	355	0	0	0	0	0	0	0	4	12	28	63	47	31	86	84
Ajinomoto Company.....	349	115	5	11	9	17	15	10	20	15	25	23	22	28	18	16
Wisconsin Alumni Research Foundation.....	342	59	6	10	10	13	14	9	13	17	35	39	29	34	25	29
Bristol-Myers Squibb	339	70	10	17	15	8	11	14	22	26	39	33	21	12	18	23
Monsanto Company.....	332	74	10	20	30	17	16	13	16	17	21	31	31	29	2	5
Massachusetts Institute of Technology.....	318	95	14	12	14	18	7	4	18	22	25	22	12	22	17	16
Schering	318	60	11	16	11	9	6	12	6	20	35	32	18	31	22	29
Cornell Research Foundation	316	51	9	8	15	6	11	8	12	19	29	34	28	35	18	33
Harvard College, President and Fellows	312	51	17	6	9	9	7	9	20	19	34	27	18	22	36	28
Stanford University, Leland Junior, Board of Trustees.....	311	47	3	11	3	4	10	12	13	24	33	28	31	30	39	23
The Scripps Research Institute	310	0	0	0	8	22	19	24	18	20	48	32	30	44	24	21
Salk Institute for Biological Studies.....	308	85	5	15	11	13	10	9	18	29	25	19	17	22	17	13
American Cyanamid Company.....	307	71	5	9	17	17	21	12	21	30	30	40	15	8	8	3
Kyowa Hakko Kogyo	302	90	17	15	14	12	10	11	13	18	19	23	14	15	15	16
Millennium Pharmaceuticals.....	286	0	0	0	0	0	0	0	0	4	14	29	46	64	76	53
Ludwig Institute for Cancer Research.....	284	0	0	1	4	6	6	3	19	20	43	34	39	50	38	21
Genetics Institute.....	280	21	8	13	8	12	13	15	14	27	39	32	19	25	15	19
Amgen.....	276	15	6	4	12	4	9	10	13	25	36	37	32	39	17	17
Columbia University.....	271	24	4	2	7	10	6	9	13	16	29	33	23	33	29	33

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Eastman Kodak.....	271	120	10	20	30	27	23	23	1	3	5	2	4	2	0	1
University of Pennsylvania.....	271	5	1	3	7	8	15	10	18	34	42	32	16	34	28	18
Behringwerke Aktiengesellschaft.....	270	95	11	13	10	20	11	12	26	47	10	10	4	1	0	0
Pfizer.....	265	84	15	5	10	6	3	9	11	21	13	10	11	16	26	25
Bear Creek Gardens.....	263	9	2	15	14	13	61	29	17	4	15	29	53	2	0	0
Rockefeller University.....	251	28	1	4	7	7	9	3	6	19	34	31	40	22	30	10
Washington University.....	244	17	4	9	11	6	9	13	12	17	23	37	27	31	14	14
Zymogenetics.....	241	9	4	4	6	7	5	8	16	18	28	24	20	30	33	29
Immunex.....	240	18	4	5	6	13	10	14	15	12	21	17	22	22	24	37
Paul Ecke Ranch.....	233	9	14	7	11	25	12	16	1	14	26	12	24	31	23	8
University of Minnesota.....	233	37	7	3	13	6	8	12	12	14	21	23	25	19	17	16
Conard-Pyle.....	216	89	21	12	9	24	13	10	16	14	7	1	0	0	0	0
Thomas Jefferson University.....	214	9	3	6	3	5	6	5	11	21	20	23	23	33	26	20
Bayer Aktiengesellschaft.....	212	82	5	7	9	5	3	5	13	12	16	15	14	9	9	8
Genencor International.....	201	0	0	3	4	10	12	9	3	11	20	16	17	34	26	36
Ciba-Geigy Corporation.....	198	69	6	10	10	20	11	14	24	19	10	1	2	0	2	0
Syntex (U.S.A.).....	197	94	11	13	15	16	7	12	5	3	13	4	1	2	1	0
Akzo Nobel.....	195	0	0	0	0	0	0	5	12	38	35	30	27	18	20	10
Dana-Farber Cancer Institute.....	195	19	5	8	5	11	8	8	13	16	31	20	13	13	16	9
University of Michigan.....	195	4	1	1	1	3	4	8	6	31	20	27	31	20	20	18
Baxter International.....	190	62	8	8	4	6	7	5	9	8	17	15	12	15	5	9
Bayer Corporation.....	187	0	0	0	0	0	0	3	17	21	28	32	27	28	21	10
Yeda Research and Development.....	187	32	5	5	4	10	4	6	14	9	18	23	14	14	12	17
Hayashibara Biochemical Laboratories.....	184	36	3	5	5	3	5	7	14	12	23	31	14	13	7	6
Michigan State University.....	184	6	2	5	3	4	7	4	9	20	25	32	20	15	17	15
Cetus Corporation.....	182	100	36	18	21	3	1	0	0	3	0	0	0	0	0	0
Suntory.....	181	27	2	5	13	5	12	14	5	10	19	24	13	15	2	15
California Institute of Technology.....	178	26	3	3	4	1	7	3	4	10	27	15	15	26	10	24
Basf Aktiengesellschaft.....	177	27	5	4	6	4	5	5	8	10	19	20	14	17	16	17
Dekalb Genetics Corporation.....	176	0	0	0	0	0	0	4	10	1	8	43	39	31	31	9
Zeneca.....	175	0	0	0	0	0	4	15	27	14	27	32	22	23	8	3
Mycogen Corporation.....	174	12	5	10	14	21	18	10	7	11	11	13	15	9	4	14
Smithkline Beckman.....	173	122	2	2	3	3	3	12	9	6	7	3	0	0	1	0
American Home Products Corporation.....	172	115	2	6	0	2	4	1	1	5	8	5	7	8	7	1
Duke University.....	172	10	0	2	1	6	11	6	18	10	16	21	13	24	16	18
Novartis (Formerly Sandoz).....	171	0	0	0	0	0	0	0	0	3	10	29	40	41	30	18
Yale University.....	169	12	2	0	3	6	4	9	0	11	24	17	20	21	19	21
Gen-Probe.....	165	0	2	0	1	2	8	6	11	31	38	22	14	10	5	15
G.D. Searle.....	164	57	9	1	8	9	4	0	6	9	13	9	17	6	7	9
Upjohn Company.....	163	124	1	3	10	4	9	3	3	5	1	0	0	0	0	0
Brigham and Women's Hospital.....	162	8	2	4	5	7	11	6	6	13	17	17	13	26	14	13
Fujisawa Pharmaceutical.....	161	46	9	7	5	7	9	7	11	12	7	5	4	12	12	8
Affymetrix.....	160	0	0	0	0	0	0	0	1	2	9	12	21	44	36	35
Floris.....	160	0	6	3	0	8	15	14	11	5	7	6	3	7	57	18
New York University.....	160	17	9	2	2	8	4	6	9	16	14	19	11	17	15	11

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Mikkelsen	159	107	12	0	15	6	12	2	3	2	0	0	0	0	0	0
Sloan-Kettering Institute for Cancer Research	159	52	6	6	9	2	1	3	6	13	16	8	10	7	8	12
Council of Scientific and Industrial Research	158	0	0	0	1	0	0	1	1	3	4	5	7	20	53	63
Baylor College of Medicine	157	12	4	2	1	5	8	3	13	11	22	16	20	12	15	13
Fuji Photo Film	157	69	13	10	6	12	5	3	5	2	3	4	4	5	9	7
Jackson & Perkins	157	146	10	1	0	0	0	0	0	0	0	0	0	0	0	0
Roche Diagnostics	156	0	0	0	0	0	0	0	0	0	0	15	29	55	30	27
Incyte Genomics	154	0	0	0	0	0	0	0	0	0	0	0	4	58	67	25
Research Foundation of State University of New York	153	6	2	3	5	7	13	7	10	17	15	18	14	16	13	7
Max-Planck-Gesellschaft zur Forderung der Wissenschaften E.V.	151	39	1	3	1	4	3	5	4	7	16	21	13	9	7	18
Procter & Gamble	151	24	1	4	11	10	11	8	9	6	6	4	3	14	23	17

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

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