

SCIENCE NEWS INDEX

Vol. 135, Nos. 1-25, January-June 1989, pp. 1-400

Science Service, Washington, D.C. 20036

A	Arctic ozone 11, 37, 148	Birthmarks 118	Carandini, Andrea 20
Abortion 278	Argon lasers 118	Bishop, Charles A. 266	Carbon clusters 56
Abramczuk, Jan W. 356	Arithmetic properties 372	Bishop, David J. 197	Carbon particles 351
Accidents, automobile 318	Arko, Aloysius J. 143	Bismuth 201, 367	Carbonate rock 173
Acetaminophen 294	Armenian earthquake 43	Blackburn, Henry 250	Carbons 188, 204, 216, 217, 234, 262, 263
Acid rain 103, 165, 271, 311	Armyworm moths 46	Blacks, life span 188	Carcerands 327
Acoustic directed-energy pulse trains (ADEPTs) 38	Arnold, Bettina 171	Blair, Carl 170	Carcinogen screening tests 119
Acyclovir 4, 55, 110	Arnold, Vi. 70	Blit Manobo 280	Carcinogens 133, 199, 300
Adaptive behavior 343	Aromatic chemicals 151	Bloch, Erich 22	Cardiac Arrhythmia Suppression Trial 260
Addicts 168	Arter, David 229	Blood banks 52	Caregivers 59
Adducts, DNA 199	Asian fossils 388	Blood clot dissolvers 214	Carey, J. William 126
Adirondacks 165	Askenase, Philip 246	Blood filtering 271	Carneiro, Robert L. 281
Advanced Photon Source 22	Aspartyl protease 100	Blood proteins 359	Carney, Bruce W. 155
Aerodynamic boat tail 134	Asteroids 287	Boehm, Christopher 223	Carney, Robert M. 13
Aerosol pollutants 277	Atiyah, Michael F. 174	Bohlen, Curtis 155	Carter, Daniel C. 359
Aflatoxin 111	Atmosphere 220, 255, 326, 351	Bonadonna, Gianni 325	Carter, Neville 132
AFR index 213	Atomic force microscope 180	Bond, Howard E. 44, 155	Cassini program 22
Aftergood, Steven 260	<i>Australopithecus afarensis</i> 251	Bone marrow recovery 380	Cataracts 308
Ager, Arba L., Jr. 237	Autism 121, 349	Bone marrow transplants 348	Caterpillars 70
Aggression, physical 318	Autoimmune diseases 156	Bones, lead binding 181	Cats 111, 172
Agladze, K.I. 94	Automation 108	Bont ticks 123	Cattle 123
Agricultural biotechnology 4, 59	Avian behavior 364	<i>Boophilus microplus</i> 186	Cavaney, Red 105
Agriculture 101	Avorn, Jerry 88	Booster rockets 126	Cavitands 327
Agta 264	Avoiris, Phaedon 200	Bötes constellation 30	CD4 receptors 86, 366
AIDS 22, 23, 37, 54, 55, 86, 88, 100, 110, 166, 168, 199, 366	AZT (zidovudine) 88, 166, 382	Boran people of Kenya 172	Cell membranes 84, 110
AIDS, progression data 382	B	Boron 204	Cells 117, 150
AIDS prevention 380	Baboons 251	<i>Borrelia burgdorferi</i> 184, 259	Cellular respiration 349
AIDS testing 41, 268, 340, 357, 382, 389	Bachner, Paul 268	Bothun, Gregory D. 30	Cellulose 282
AIDS transmission 382	<i>Bacillus thuringiensis</i> 300	Bot, Raoul H. 299	Central nervous system ailments 390
AIDS treatment 382	Bacteria, photosynthetic 36	Bousera, Beni 133	Cephalosporin 237
AIDS vaccine 375	<i>Bahia Paraíso</i> ship 85	Bowler, Stephen 268	Ceramics 157, 284
Air pollution 119, 126, 204, 216, 262, 276	Baker, D. James 235	Boyce, Peter 297	Cerebral hemorrhage 250
Alanine aminotransferase (ALT) 52	Baker, Daniel N. 335	Bradley, Daniel W. 247	Cerium 143
Alar 133, 155, 311, 358	Baker, David 103	Braish, Tamime F. 124	Cess, Robert D. 6
Alcock, Charles R. 138	Baker, Victor R. 21	Breast feeding, AIDS transmission 382	Chagnon, Napoleon A. 266
Alcohol 68	Balance 54	Breast milk 71	Chaisson, Richard E. 168
Alcoholism 13, 117, 180, 309	Balloon angioplasty 148	Brecher, Kenneth 44, 100	Chamberlain, Steven C. 90
Aldering, Gregory S. 30	Baltimore, David 85, 278, 294	Brennan, Sean 77	Chandler wobble 220
Algae fossils 126	Bancel, Peter A. 149	Bretherton, Francis P. 233	Chanmugam, Prithiva 183
Allen, Donald O. 228	Bar-Yosef, Ofer 101	Brickette fertilizer 383	Chao, B. Fong 102
Allergies 246	Barnes, Joshua E. 218	Brill, Winston J. 59	Charge-coupled device (CCD) 91
Alpha-aminoisobutyric acid 356	Barnett, Timothy P. 217	Broder, Samuel 135	Chasnoff, Ira J. 198
Altman, Douglas G. 5	Barua, Arun B. 204	Brodeur, Jacques 231	Chaturvedi, Lokesh 389
Aluminosilicate 111	Baskin, Roberta 105	Bromine 116	Cheese 87
Alvarez, Luis and Walter 132	Bass, George F. 44	Bromley, D. Allan 263	Chemical reactions 7, 388
Alzheimer's disease 86, 318	<i>Bathynomus giganteus</i> 91	Brooks, James 215	Chemical systems 94
<i>Amblyomma americanum</i> 186, 259	Baucus, Max 183	Brophy, James J. 196	Chemicals, chlorine 367
Amelogenin 269	Beans 300	Brouwers, Pim 88	Chemotherapy 135, 230, 238, 269, 325, 348, 382
Amendola, Gary A. 104	Beauchamp, Benoit 215	Brown, Lester 111	Chemzymes 388
American Academy of Pediatrics 150	Becker, William 191	Brown dwarfs 399	Chen, Irvin S.Y. 284
American Psychiatric Association 120	Becher, Gary R. 349	Br, Louis E. 231	Chen, Jennifer H. 110
American Psychological Association 121	Bees 172, 231, 318	Bt insecticide 59	Chen, Lan Bo 27
Amino acids 300, 356	Begg, Colin B. 5	Buckley, Neil 124	Cheng, Ta-Pei 215
Ammerman, Albert J. 20	Behringer, Robert P. 293	Buckminsterfullerene 56	Cheng, Ta-Pei 215
Amniocentesis 132	Belli, Robert F. 134	Building design 43	Chernobyl radiation 92
Amniotic fluid 342	Belousov-Zhabotinskii (BZ) reaction 94	Bunker, Bruce 167	Chickens 213, 349
Amorphous materials 157	Belton, Michael J.S. 247	Burger, Dennis 268	Child abuse 246
Amygdala 117	Belzer, Folkert O. 69	Burgess, Elizabeth 187	Child development 325, 349
Analgesics 294	Bender, John T. 157	Burish, Thomas G. 238	Children, AIDS-infected 88
Anaphylaxis 246	Bends 188, 283	Burnette, Mark S. 326	Children, pesticide exposure 133
Anderson, Don L. 344	Benkovic, Stephen J. 28	Burrascano, Joseph 187	Children, sedatives 156
Anderson, John F. 185	Benzene 201	Burstein, David 231	Chimpanzees 155, 223, 251
Andrews, Lori B. 41	Berenbaum, May 136	Burton, C. Shepherd 262	Chimpanzees, HIV-infected 382
Andromeda galaxy 219	Berezney, Ronald 5	Bush, George 148, 375	Chiron 247
Anemia 293	Berger, C. Rainer 44	Buydens-Branchey, Laure 180	Chisolm, J. Julian 54
Angina 148	Berlin, Jesse A. 5	Byrd, Benjamin F., Jr. 213	Chitkara, Usha 278
Angiosperms 188	Bertero, Gregory C. 335	C	Chlorinated water 342
Animals, DNA fingerprinting 72	Berremann, Gerald 283	Cachectin 293	Chlorine bleaching 104
Annett, Marian 12	Best, Catherine T. 149	Calcium 36	Chlorines 116
Anorogenic magmatism 345	Bet-I antibody 295	California condors 73	Chloroamphenicol acetyl transferase (CAT) 356
Antarctic ozone hole 148, 233	Beta-carotene 348	Campbell, Donald B. 249	Chlorofluorocarbons (CFCs) 37, 94, 116, 148, 183, 216, 217, 263, 367
Antarctica 22, 85, 223, 228	Beta cells 156	Cancer, bone 230	Chloroplasts 71
Anthrax 110	Beta-hexosaminidase 167	Cancer, breast 102, 135, 213, 325	Cholesterol 183, 238, 250, 342, 349, 389
Antibodies 28, 86, 252	Betz, Fred S. 300	Cancer, cervical 166	Cholesterol gallstones 332
Antifreeze proteins 102	Bhattacharya, Amit 54	Cancer, DNA adducts 151	Chomsky, Noam 12
Antimatter plasma 154	Bilanin, Alan 134	Cancer, head and neck 348	Chorionic villus sampling 132
Antisense genetics 360	Binary star systems 13	Cancer, liver 119	Chowning, John 203
Anxiety 116	Binford, Lewis R. 264	Cancer, lung 188	Chromosome 5 359
<i>Aphidius nigripes</i> 231	Bioelectric signals 202	Cancer, pancreatic 390	Chronic fatigue syndrome 4
Aphids 231	Bioelectronics 94	Cancer, prostate 366	Chronic lymphocytic leukemia (CLL) 348
<i>Arabidopsis thaliana</i> 135	Bioengineering 376	Cancer, penile 150	Chronic myelogenous leukemia (CLM) 348
Arctic climate 126	Bioethics 40	Cancer, prostatic 228	Chudnovsky, David V. 24, 372
Arctic fossil mounds 215	Biological clock 374	Cancer prevention 85, 87	Chudnovsky, Gregory V. 24, 372
	Biological diversity 4, 22	Cancer therapy 26, 46, 228, 230, 269, 348, 360, 380	Chupp, Edward L. 260
	Bioluminescence 91	Canfield, Richard C. 391	Churchwell, Edward B. 88
	Biomuse 202	Canine distemper virus 39	Cincinnati, Louis 27
	Biosensors 117	Capon, Daniel J. 86	
	Birds 73, 172, 364	Captive breeding 72, 155	
	Birnbaum, Howard 276		
	Birnbaum, Linda S. 141		
	Birth defects 342		

Dallas, Saterios S.	249	Earth's core	319	Figus, Annalena	52	Geomagnetic field	319	Heffez, Dan S.	342
Daminex	185	Earth's magnetic field	188, 213	Finsen, John	43	Geomagnetic storms	310	Hegedus, L. Louis	271
Daminoxide	133, 155, 311, 358	Earth's wobble	220	Fires	94	Gerry, Martin	68	Heider, Karl G.	59
Davies, Katherine	105	Eastern skunk cabbage	394	Firestone, David	105	Geschwind, Norman	12	Helioseismology	87
Dawson, John M.	358	Ecosystems	311	Fish	102, 105, 300	GF11 supercomputer	24	Hematoporphyrin derivative (HpD)	26
Day length	102, 374	Eddy, John A.	232, 235	Fish and Wildlife Service (FWS)	184	Gilman, David A.	229	Hemispheric cooling	359
Deceptive behavior, children	343	EDKC	27	Fish oil	83, 237, 332, 390	Gingga satellite	260	Hemoglobin, fetal	349
Decompression sickness	188, 283	Egan, John J.	172	Fisher, Bernard	135	Glass	167, 207	Herpetic fever	292
Deep Space Network	296	Eggs	213, 349	Flecaidine	260	Glass, Gregory Gurri	292	Henningfield, Jack E.	30
Defect-diffusion mathematics	157	Eicosapentanoic acid	390	Fleischmann, Martin	196, 212, 244, 276	Glass threads	157	Hepatitis	52, 246
Defense reactor complex	22, 60	Eisen, Herman	295	Flowers	293	Glatstein, Eli	230	Herman, Judith L.	246
Dehmelt, Hans G.	38	Ekman, Paul	59	Fluid forces	378	Glavaski, Barney S.	166	Hermann, Allen M.	207
DeLaca, Ted	85	El Niño-Southern Oscillation	53, 84, 102, 221	Fluorescein	123	Global Change Research Program	22	Herpes simplex	110
Delaney, John R.	91	<i>Elaphrothrips tuberculatus</i>	110	Fluorescent microscopy	5	Global monitoring	232, 235	Herpesvirus-6	55
Delta 2 rocket	126	Elder abuse	276	Fluoride	36	Global Positioning System (GPS)	126	Herring, Thomas A.	220
Denbow, James R.	265	Elderly	181, 318	Fluorouracil	135	Global temperature	335	Hirsch, David A.	182
Denneau, M.M. (Monty)	24	Electroencephalograms (EEGs)	202	Folk medicine	60	Globalular clusters	86	Hestmark, Martin	391
Department of Defense	103	Electromyograms (EMGs)	202	Folstein, Susan E.	349	Glucuronide	204	Hewish, Anthony	296
Department of Energy	22, 60, 103, 389	Electron microscopy	5	Food and Drug Administration (FDA)	260, 268, 278, 300	Guions	215	High-density lipoprotein (HDL)	389
Depression	13, 180, 332	Electron-ozone theory	335	Food poisoning	349	GOES West satellite	77	Hillard, Bruce	255
Des Jarlais, Don C.	168	Electron spin resonance (ESR) dating	263	Foran, Jeffery A.	300	Gold	203	Hippocampus	86
Desch, Michael D.	319	Electrocyclograms (EOGs)	202	Foreign debt	62	Goldman, Alan I.	149	Hirsch, Karl F.	220
Desjardins, Anne E.	238	Elephants	72, 74	Forrest, David J.	260	Goodale, Melvin A.	12	Hirsch, Martin S.	110
Deuterium	229, 244, 341	Elings, Virgil	291	Forrester, William J.	399	Goodkin, Donald E.	245	HIV virus	55, 86, 100, 166, 168, 199, 268, 340, 357, 366
Deutsch, Martin	276	Elizalde, Manuel, Jr.	280	Forsterite	126	Goodman, Marnie	155	Ho, Paul T.P.	21
DeVita, Vincent T., Jr.	135, 238	Elkins, Charles	105	Fossil fuels	183, 217	Gordon, Robert J.	265	Hoffman, Hunter G.	134
DeVries, Arthur D.	102	Ellef Ringnes Island	215	Fossil mounds	215	Gough, Michael	282	Hoffman, Paul F.	344
Deyo, Richard A.	86	Ellis, Robert	237	Foundation on Economic Trends	68	Gould, Michael	111	Holm-Hansen, Osmund	228
Diabetes	156, 357, 383	Elison, George W.	245	Fourth dimension	328	Grainick, Steve	207	Holt, Henry E.	287
Diagnostic and Statistical Manual of Mental Disorders	120	Elrod, David W.	271	Fowler, Bruce	111	Granites	345	Home diagnostic tests	42, 268
Diamond films	261	Embrys	132, 213	Fox, Robert	283	Graphite	133	Hominids	39
Diamonds	133	Emken, Edward A.	237	Fractal time	157	Gray, Donald H.	164	<i>Homo erectus</i>	229
Diapers, disposable	141	Emlen, Stephen T.	364	Francis, Allen	121	Gray, Robert H.	297	Homosexuals	54, 168
Diaz, Henry F.	52	Emotions	59, 149	Francis, George K.	299	Great Attractor	230	Hones, Edward W.	260
Dictation systems	351	Employment discrimination	40	Frank, Curtis	7	Grebner, Eugene E.	167	Honey hunting	172
Diebold, Gerald J.	207	Enantiomers	124	Frank, scientific	85	Greece, tool site	39	Hood, Leroy	42, 284
Diet	87, 102	Encainide	260	Free radicals	87, 119, 123, 327	Greenbaum, Elias	94	Hormone-blocking drugs	366
Diet, insects	70	Encephalopathy	390	Freedman, Michael H.	70, 329	Greene, Erick	70	Hormone therapy	135
Dietary fats	390	Endangered species	72, 79, 155	Freelach, Michael	351	Greenhouse effect	52, 84, 183, 188, 216, 217, 232, 262, 367	Horowitz, Gary	174
Dingell, John	85, 294	Endothelial cells	373	Fridman, Rafael	228	Griffin, P. Bion	265	Horowitz, Paul	297
Dinosaurs	220, 261	Energy harnessing	367	Fruit	133	Griff, Jeffrey M.	165	Host-parasite relationships	231
Dioxins	104, 141, 270	English, Mary Catherine	103	Fuchs, Philip L.	124	Griffin, P. Bion	265	Hostility	60
2,5-di-t-butyl-1,4-dimethoxy benzene	125	Enkaid	260	Fuels, alternative	53	Grigg, Bill	156	Houghton, Michael	246
Dithiothreitol	123	Entomology	136	Fullerenes	126	Growth factors	380	Houpt, Katherine A.	111
DNA	53, 199, 284	Environmental bonds	62	Fungi similarity	318	Growth hormones	252	Howell, Nancy	264
DNA, foreign	356	Environmental Protection Agency (EPA)	22, 103, 183, 191, 204, 277, 300, 343, 358, 391	Furans	104, 141	Guam, birds	73	HTLV-II virus	284
DNA, synthetic	360	Enzyme inhibitors	366	Furth, Harold	244	Guenther, David B.	269	Hubble Space Telescope	15
DNA adducts	151	EOSAT	172	Fusion	196, 212, 229, 244, 276, 367	Guillet, James E.	7	Huggins, Robert A.	276
DNA fingerprinting	72, 74, 199	Epitaxial liftoff	101	Fusion energy reactors	154	Gulf of Mexico	77	Hullinger, Ronald L.	213
DNA replication	5	Epstein-Barr virus (EBV)	4	Gabelman, Warren H.	135	Gulick, Virginia C.	21	Human fossils	388
DNA research guidelines	237	Erice, Alejo	110	Gaffney, Drew	71	Gunn, James E.	218	Human genome project	22, 284
Dockery, Douglas W.	277	Eridank, Epsilon	297	Gagnon, John H.	54	Gurman, Joseph B.	213	Human sacrifice	163
Dogwoods	110	Erlank, Tony	133	Gálápagos tortoises	73	Haertel, Ursula	389	Hunter-gatherers	264, 280
Donaldson, Simon	329	Erlach, Kim S.	110	Galaxies, formation	24, 30, 155, 218, 262	Häfner, Reinhold	13	Huperzine A.	366
Dopamine receptors	6	Erwin, Robert L.	238	Galaxies, motion	230	Hague, Brian	156	Hussey, V. John	172
Doppler shifts	391	Esposito, Larry W.	249	Galileo mission	15	Haig, Susan	72	Hydrochloric acid	116
Dorfan, Jonathan	245	Etching	287	Gallium arsenide	69, 101	<i>Haliplanella luciae</i>	182	Hydrogen, compressed	327
Dorus, Walter	309	Etter, Margaret C.	166	Gallo, Robert C.	55	Halley's comet	214	Hydrogen fuels	123
Dougherty, Thomas J.	27	Eustrongylides	300	Gallstones	332, 356	Halons	116, 217, 367	Hydrogen liberation	366
Dover, George J.	349	Evans, Larry G.	223	Gamma ray bursts	118	Halperin, John J.	390	Hydroxyl radicals	119
DragonDictate system	351	Evans, William	79, 255	Gamma rays	44, 154, 260	Hameed, Sultan	220	Hydrozuzurea	349
Drake, Stephen A.	212	Evolution	10, 263, 264, 372, 376	Ganciclovir	110	Hamilton, Charles R.	11	Hyperactivity	332
Dresser, Betsy L.	172	Ewing, Andrew G.	150	Gans, Mike J.	143	Handedness, primates	10	Hypertension	60, 250, 383
Drinking water	191, 342	Ewing's sarcoma	230	Garber, Corey	268	Handyside, Alan H.	132	Hypnosis	141
Driscoll, Charles	165	Explosive Transient Camera	118	Gardner, John W.	166	Hansen, James	216, 233	ICAM-1	165
Drought	111	Export controls	197	Gardner, Phyllis	110	Hansa, Paul K.	84, 180	Ice Age	220, 374
Drug abuse	141, 168, 284, 332	Extinctions	132, 356	Garewal, Harinder	348	Hantaan virus	292	Ice cores	374
Drug design	359	Extraterrestrials	296	Gasoline	191, 204	Harbison, James P.	69	Icosahedral glass model	149
Drug research	278, 294, 362	Eye disease, diabetic	383	Gaspra asteroid	15	Hardy, Ralph W.F.	36	Ida asteroid	15
Drugs, anti-arrhythmic	260	eyewitness memory	134	Gastrointestinal illness	343	Hargett, John W.	294	IdE receptors	246
Drugs, anticancer	26, 228, 238, 325, 348, 349, 366, 373	F		Gene mapping	40, 269	Harney, Denis F.	283	lgG transmission	20
Drugs, antipsychotic	88	Facial expressions	59, 149, 343	Gene splicing	59	Harris, William	183	Illinois AIDS testing law	357
Drugs, antiviral	110, 166	Fagan, Paul J.	166	Gene transfer experiments	68	Harrison, Richard A.	331	Imagawa, David T.	340
Drugs, clot-dissolving	214	Fagot, Joel	10	General Accounting Office (GAO)	79	Harvey, Roger B.	111	Image processing	94
Drugs, psychiatric	88	Falk, Dean	11	General circulation models (GCMs)	234	Hathaway, Janet	133	Imagery, lactation	71
Drugs, resistance	348	False truffle	318	Genetic defects	349	Haverkos, Harry W.	171	Imanishi-Kari, Thereza	85, 278, 294
Drugs, stimulants	332	Fanale, Fraser P.	287	Genetic diseases	357	Hawkins, Jamison	77	Immune system	20, 59, 357
Duchenne muscular dystrophy (DMD)	30	Fare, Thomas L.	117	Genetic engineering	4, 59, 123, 135, 238, 300, 324, 356, 360, 373	Hayes, Edward B.	343	Immune tolerance	156
Dye lasers	118	Farhi, Edward H.	138	Genetic mapping	40, 269	Hazardous wastes	164, 197	Immunoadhesins	86
Dyes	26	Fatty acids	87, 183, 237	Genetic non-equivalence	313	HCFC-124	94	Immunoglobulins	20
Dystrophin	30	Fay, Robert E.	54	Genetic research	237	He, Zheng-Xu	70	Impact theory, K-T extinctions	132
Dziewonski, Adam D.	340	Feder, Ned	85	Genetic testing	40, 132, 389	Headland, Thomas N.	264, 281	<i>In vitro</i> fertilization	132, 172
E		Federal budget	22, 103, 150	Genetic variability	357	Health insurance	41	Indicator indicator	172
Eaglesham, Allan R.J.	36	Federal budget	22, 103, 150	Genetics, human	312	Health statistics	188	Infant mortality rate	188
Earth Observing System (EOS)	150, 233	Fehér, Stephen D.K.	71			Health workers	382	Infants, AIDS testing	389
Earth Radiation Budget Experiment (ERBE)	6	Feldman, Leonard C.	69			Heart attack	39, 148, 214, 250, 260	Infants	20, 149, 198
Earth system science	232	Feldman, Paul	214			Heart defects	188, 283	Infertility	182
Earthquakes	43, 220, 335, 340	<i>Felis sylvestris</i>	172			Heart disease	13, 60, 148, 183, 188, 250, 389	Influenza	325

<i>Paranthropus</i>	251	co-2-vinylnaphthalene)	7	Reproductive versatility	110	Schooley, Robert T.	4	Solar winds	119, 319
Parasites	231, 343	Polyunsaturated fatty acids		Research, federal policy	23, 255	Schouten, Hans	295	Solter, Davor	313
Pariza, Michael W.	87	(PUFAs)	87	Research, federal spending	22	Schramm, David N.	262	Sopori, Mohan L.	255
Parkinson's disease	6	Polyvinylidene fluoride (PVDF)	79	Research, fraud	85, 278, 294	Schrire, Carmel	265	Southard, James H.	69
Parks	94, 103	Polys, B. Stanley	196, 212, 244, 276, 311, 341	Research, publication bias	5	Schulman, Howard	110	Soviet Union, AIDS testing	382
Particle accelerators	38, 154, 245	Pope, C. Arden III	277	Research, U.S.-Soviet cooperation	62	Schultz, Peter G.	28, 252	Soviet Union, research	62
Particle physics	207, 215	Porphyryns	27	Research and development (R&D)	103	Schulze, Terry L.	185	Space shuttle	71, 126, 213, 292
Particle traps	279	Port-wine stains	118	Research and experimentation tax credit	103	Schwartz, Richard	213	Space station	23
Passamani, Eugene R.	148	Positron annihilation	44	Respiratory diseases	277	Schweizer, François	218	Spatial ability, diabetics	383
Passive smoking	166	Positron emission tomography (PET)	116	Rhinoviruses	36	Science adviser, White House	23, 103	Spectral lines	57
Passner, Albert	154	Pregnancy	68, 198, 278	Rhizobia, photosynthetic	136	Science education	136	Speech-recognition system	351
Patent foramen ovale	188, 283	Premelting	77	Rhodopsin	90	Science Service, Inc.	151	Spermi cells	356
Pathogens	246	Premenstrual syndrome (PMS)	122	Rholytics	345	Science Talent Search	55, 151	Sphere eversion	299
Patt, Joseph M.	394	Premier cigarette	30	Ribeiro, Jose M.C.	186	Scratchpad II program	24	Spider webs	330
Pattinson, Jonathan K.	132	Prendergast, Kevin H.	24	Ribozymes	362, 372	Scuba divers	188, 283	Spielman, Andrew	185
Patton, John	72	Prescriptions	237	Rich, Charles L.	332	Sea anemones	182	Spina bifida	342
Pauling, Linus	124, 276	Presidential Commission on the HIV Epidemic	169	Rifkin, Jeremy	68	Sea Beam	295	Spinal taps	390
Payload specialists	71	Press, Frank	23	Riggs, B. Lawrence	36	Sea of Galilee	44	Spitzer, Robert L.	121
PeCDF	141	Price, Richard W.	199	Rimicaris exoculata	90	Sea water	366	Springer, Timothy A.	165
Peebles, P. James E.	262	Primates, handedness	10	Rind, David	262	Seaborg, Glenn T.	196, 244	Squire, Larry R.	167
Peel, David A.	374	Prince, Thomas A.	44	Rizvi, Syed S.H.	238, 300	Seafloor explosions	77	Squyres, Steven W.	223
Peery, Paul S.	101	Prince Patrick Island	215	Robertson, James D.	308	Seafloor spreading	295	Sri Lanka cave	388
Pentamidine	382	Prior, David B.	77	Robinson, Ralph G.	373	Seafloor vents	90, 215	St. Clair, David	359
Peralta, Jesus T.	281	<i>Prochlorothrix</i>	71	Rocky Flats, Colorado	391	Seals	39	Stable Solar Analyzer	87
Pereira, Glenn	108	Procha, Richard L.	167	Rome	20	Sealworms	300	Stack, Robert J.	46
Perkins, Courtland	150	Project Ozma	297	Ronk, Richard J.	105	Search for extraterrestrial intelligence (SETI)	296	Stamler, Jeremiah	250
Perkins, Kenneth A.	214	Propranolol	156	Ropelewski, Chester	53, 84	Sedatives	156	Stanford Linear Collider	245
Peroxisome-proliferating chemicals (PPCs)	119	Proteins, blood	359	Rose, Christopher	143	Seismic waves	335	Stansberry, John A.	191
Peroxonitrite	266	Proton therapy, tumors	46	Rosen, John F.	111	Selective catalytic reduction	271	Starches	282
Personality disorders	121, 122, 246	Proton's spin	215	Rosen, Richard	102, 220	Selenium	111	Stars	13, 24, 88, 291, 324
Pertatataka, Australia site	126	Pryor, William A.	123	Rosenberg, Steven A.	68, 324	Self-defeating personality disorder	122	Steere, Allen C.	184
Pesticidal plants	300	Pseudomonas cepacia	4	Rosenblatt, Joseph D.	284	Semiconductors	101, 231	Steinfeld, Jeffrey	92
Pesticides	133, 358	PSR 2127+11 pulsar	86	Ross, James C.	134	Semiconductors, III-V	295	Steinhart, Paul J.	149
Peters, Michael	12	Psychiatric diagnosis	120	Rothbart, Mary K.	149	Serotonin	180	Steinkeller, Piotr	198
Petroff, Pierre M.	69	Public Health Service	188	Rothstein, Mark	41	Serum albumin, human	359	Steinway pianos	108
PG 1550 + 131 star	13	Publication bias	5	Roush, Ted L.	173	Serum albumin, plant	238	Stellar eclipse	13
Phasons	149	Pulsars	86, 100, 138, 296	Rovet, Joanne F.	383	SETI Microwave Observing Project	296	Stephens, Peter W.	149
Phenacetin	294	Purdy, Graham M.	295	Rubin, Emanuel	117	Shah, Shirish C.	156	Stewart, Walter	85
Phenylacetate	28	Quantum chromodynamics	139	Ruddiman, William F.	309	Shanidar skull	229	Stishovite	132
Pheromone	46	Quantum-well wires	69	Rudick, Richard A.	245	Shanks, Roger D.	123	Stolow, Robert	125
Phillips, Anthony	299	Quark-gluon plasma	139	Rugar, Daniel	180	Shannon, Robert E.	284	Stone, Elizabeth C.	198
Phinney, S.A.	191	Quark nuggets	138	Runnels, Curtis	39	Shapiro, Art	231	Stone blades	101
Phobos 2 mission	119, 223, 245, 287	Quarks	215, 245	Rust, David M.	87	Shapiro, Martin F.	278	Strange matter	138
Phobos 1 satellite	87	Quasi-Biennial Oscillation (QBO)	102	Rutile	284	Sharer, Leroy R.	199	Strategic Defense Initiative (SDI)	22, 260
<i>Phocanema decipiens</i>	300	Quasi-crystals	149	Ryde, Oliver	73	Sharp, Robert	43	Straus, Stephen E.	4
Phosphatidylethanol	13	Quate, Calvin F.	180	Ryle, Martin	297	Shaw, Gordon L.	139	Strassguth, Ann P.	68
Photodynamic therapy	26	Queen, Heidi I.	149	Saftlas, Audrey F.	213	Shelding, Michael F.	157	Streptokinase	214
Photofrin II	26	Quetzalcoatl Pyramid	163	Salazar, Zeus	281	Shofam, Moshe	108	Stress	59
Photon acceleration	358	Racaniello, Vincent R.	165	Salicylic acid	351	Shrimp	90	Stridulation	137
<i>Photorhizobium thompsonum</i>	36	Radar maps, Mars	75	Salk, Jonas	375	Sickle cell anemia	349	String theory	174
Photosynthesis	71, 94	Radice, Peter F.	79	Salmeron, Miquel B.	53	Suicide	180, 332	Stringer, Christopher B.	263
Photosynthetic membranes	366	Radio interference	119	<i>Salmonella typhimurium</i>	349	Suillus	318	Stroke	60, 250
Photozymes	7	Radioactive cancer drugs	373	Sand, flow patterns	293	Sullivan, Louis W.	188	Strong, Alan E.	247
Physical aggression	318	Radioactive contamination	391	Sandler, Dale P.	283	Sun	87, 269	Strong, Keith T.	358
Phytochrome	23	Radiotelescopes	88, 269, 296	Sanduka	283	Sunlight	300	Strum, Shirley C.	251
Pi calculation	372	Radiowave emissions	13	Santamar, Frank S.	110	Sunspots	35	Sturhan, Nancy	259
Piccione, Carlo	141	Rafonogenes	361	Sarokin, David	204	Sunspots	35	Sturges, Robert	349
Pierik, Lauren	268	Rak, Yoel	229	Satellites	6, 77, 126, 172, 232, 247, 260, 319	Sunspots	35	Sugars	46, 349
Piezoelectric materials	79	Ramanathan, V.	6	Satellites, GLONAS	298	Suicide	180, 332	Suicidal plants	300
Pillemer, Karl	276	Randerath, Kurt and Erika	151	Satellites, Small Explorer	229	Suillus	318	Sulfuric acid	104
Pioneer Venus Orbiter	119, 248	Rapidly Moving Telescope	118	Saturn X-ray generator	279	Sullivan, Louis W.	188	Sulfuric acid, silicon carbide	351
Pittenger, Richard F.	255	Plastics	252, 282	Sauer, John	186	Sun, Samuel	300	Silk threads	157
Placenta	20	Plate tectonics	159, 335, 340, 344	Scanning ion-conductance microscope (SICM)	84	Sunlight	351	Silver, Eli	188
Planetary atmosphere	326	Plateaus	309	Scanning probe microscope	180	Supernovas	7, 391	Supernovas	44, 100, 155
Plankton	335	Plattner, Ronald D.	238	Scanning tunneling microscope	53, 63, 200, 291	Supernovas	7, 391	Supernovas	44, 100, 155
Plant bacteria	36	Plumb, Robert C.	266	Scapolite	173	Superconducting film	294	Superconducting Super Collider	22, 303
Plant tumors	23	Pluto	326	Scaramella, R.	230	Superconductivity	46, 143	Superconductors	197, 201, 207, 294, 367
Plants, flowering	188, 392	Poaching	74	Scaramuzzi, Francesco	240	Superconductors, type II	197	Sugars	46, 349
Plants, genetic engineering	59	Pokrovsky, Vadim V.	382	Schaefer, Bradley E.	118	Supercontinents	344	Suicide	180, 332
Plants, ion-pump gene	135	Polar climate	126	Schaeffer, David G.	293	Supercritical fluid extraction	238	Suillus	318
Plasma physics	70	Polar stratospheric clouds	37, 116	Schantz, Peter M.	300	Supernova 1987A	44, 100, 155	Sun, Samuel	300
Plasma wakes	358	Polar vortex	116	Schard, Bruce C.	203	Supernovas	7, 391	Sunlight	351
Plasmas	154	Poliiovirus	165	Scheuplein, Robert J.	105	Suramin	366	Sunspots	35
<i>Plasmodium berghei</i>	237, 293	Pollen	220	Schindler, David W.	311	Surface structures	200	Sunspots	35
<i>Plasmodium yoelii</i>	237	Polyaniline	230	Schirber, James E.	207	Surko, Clifford M.	154	Superspots	13
Plastics	252, 282	Polycyclic aromatic hydrocarbons (PAHs)	123	Schlesinger, Michael E.	6, 121, 359	Surkov, Yuri	223	Supercomputers	24, 235
Plate tectonics	159, 335, 340, 344	Polyethylene	282	Schmelz, Joan	87	Surman, Michael R.	135	Superconducting film	294
Plateaus	309	Polymerase chain reaction (PCR)	52, 132, 269, 389	Schneider, Stephen H.	221	Swartz, Morton N.	4	Superconducting Super Collider	22, 303
Plattner, Ronald D.	238	Polymers	7, 157, 230, 325	Schnell, Russell	126	Synctium formation	366	Superconductivity	46, 143
Plumb, Robert C.	266	Polypyrrole	123, 230	Schnitker, Detmar	335	Synctium formation	366	Superconductors	197, 201, 207, 294, 367
Pluto	326	Poly(sodium styrenesulfonate-				Synctium formation	366	Superconductors, type II	197
Poaching	74					Synctium formation	366	Supercontinents	344
Pokrovsky, Vadim V.	382					Synctium formation	366	Supercritical fluid extraction	238
Polar climate	126					Synctium formation	366	Supernova 1987A	44, 100, 155
Polar stratospheric clouds	37, 116					Synctium formation	366	Supernovas	7, 391
Polar vortex	116					Synctium formation	366	Supernovas	44, 100, 155
Poliiovirus	165					Synctium formation	366	Suramin	366
Pollen	220					Synctium formation	366	Surface structures	200
Polyaniline	230					Synctium formation	366	Surko, Clifford M.	154
Polycyclic aromatic hydrocarbons (PAHs)	123					Synctium formation	366	Surkov, Yuri	223
Polyethylene	282					Synctium formation	366	Sushi	300
Polymerase chain reaction (PCR)	52, 132, 269, 389					Synctium formation	366	Susman, Randall L.	251
Polymers	7, 157, 230, 325					Synctium formation	366	Sussman, Michael R.	135
Polypyrrole	123, 230					Synctium formation	366	Swartz, Morton N.	4
Poly(sodium styrenesulfonate-						Synctium formation	366	Synctium formation	366