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- Gamble, Jennifer R. and Vadas, Mathew A.: Endothelial adhesiveness for blood neutrophils is inhibited by transforming growth factor- β . p97 7 Oct 1988.
- Garcia-Morales, Pilar. *See* Mercep, Mladen.
- Garraghty, Preston E. *See* Sur, Mriganka.
- Gatley, Ian; DePoy, D. L.; Fowler, A. M.: Astronomical imaging with infrared array detectors. p1264 2 Dec 1988.
- Gazit, Aviv. *See* Yaish, Pnina.
- Geballe, T. H. *See* Kirk, M. D.
- Geller, Stephen A. *See* Dycaico, Mark J.
- Gewirtz, Alan M. and Calabretta, Bruno: A c-myc antisense oligodeoxynucleotide inhibits normal human hematopoiesis in vitro. p1303 2 Dec 1988.
- Ghetie, Victor. *See* Till, Mark A.
- Ghose, Subrata; Van Tendeloo, G.; Amelinckx, S.: Dynamics of a second-order transition: $\text{P}I$ to $\text{P}II$ phase transition in anorthite, $\text{CaCl}_2\text{Si}_2\text{O}_8$. p1539 16 Dec 1988.
- Giammara, Beverly L. *See* Hanker, Jacob S.
- Gibson, Robert: review of *Sexual Selection*, edited by J. W. Bradbury and M. B. Andersson. p1583 16 Dec 1988.
- Gilon, Chaim. *See* Yaish, Pnina.
- Ginsberg, Mark H. *See* D'Souza, Stanley E.
- Glimcher, Laurie H. *See* Boothby, Mark. *See also* Liou, Hsiou-Chi.
- Goeddel, David V. *See* Wong, Grace H. W.
- Goldberg, Mark A.; Dunning, Susan P.; Bunn, H. Franklin: Regulation of the erythropoietin gene: evidence that the oxygen sensor is a heme protein. p1412 9 Dec 1988.
- Golden, James W. and Wiest, Deborah R.: Genome rearrangement and nitrogen fixation in *Anabaena* blocked by inactivation of *xisA* gene. p1421 9 Dec 1988.
- Goldman, Marvin. *See* Anspaugh, Lynn R.
- Goldstein, Avram: Collaboration and responsibility (letter). p1623 23 Dec 1988.
- Good, Michael F.; Miller, Louis H.; Kumar, Sanjay; Quakyi, Isabella A.; Keister, David; Adams, John H.; Moss, Bernard; Berzofsky, Jay A.; Carter, Richard: Limited immunological recognition of critical malaria vaccine candidate antigens. p574 28 Oct 1988.
- Goodfellow, Peter N. *See* Sommerfelt, Maja A.
- Gooding, J. L. *See* Jull, A. J. T.
- Goodman, Corey S. *See* Harrelson, Allan L.
- Goodman, Howard M. *See* Shih, Ming-Che.
- Goodwin, Frederick K.: NIDA's role in war on drugs (letter). p15 7 Oct 1988.
- Gopalakrishnan, J. *See* Subramanian, M. A.
- Gordon, Barbara H. J. *See* Karl, Peter I.
- Gordon, Glen E.: review of *Chemistry of the Natural Atmosphere*, by Peter Warneck. p121 7 Oct 1988.
- Gordon, Malcolm S.: Ecological physiology (letter). p16 7 Oct 1988.
- Gordon, Manuel J.; Huang, Xiaohua; Pentoney, Stephen L., Jr.; Zare, Richard N.: Capillary electrophoresis. p224 14 Oct 1988.
- Gorelikin, Leo. *See* Stoneburner, Rand L.
- Gorman, Cornelia M. *See* Pritchett, Dolan B.
- Grant, Seth G. N. *See* Dycaico, Mark J.
- Grant, William B.: Global stratospheric ozone and UVB radiation (letter). p1111 25 Nov 1988.
- Gravallese, Ellen. *See* Boothby, Mark.
- Gregory, R. T. *See* Rich, P. V.
- Gregory, Timothy. *See* Till, Mark A.
- Greuel, Joachim M.; Luhmann, Heiko J.; Singer, Wolf: Pharmacological induction of use-dependent receptive field modifications in the visual cortex. p74 7 Oct 1988.
- Grey, Howard M. *See* Buus, Søren.
- Grubman, Marvin. *See* Yilmaz, Tilahun.
- Gupta, Dwijendra; Tartakoff, Alan; Tisdale, Ellen: Metabolic correction of defects in the lipid anchoring of Thy-1 in lymphoma mutants. p1446 9 Dec 1988.
- Gustin, Michael C.; Zhou, Xin-Liang; Martinac, Boris; Kung, Ching: A mechanosensitive ion channel in the yeast plasma membrane. p762 4 Nov 1988.
- Guyenet, Patrice G. *See* Stornetta, Ruth L.
- H**
- Haaparanta, Tapio. *See* Kimelman, David.
- Habener, Joel F. *See* Hoeffler, James P.
- Hager, Jeffrey H. *See* Dycaico, Mark J.
- Hager, Lisa J. *See* Turner, Eric.
- Håkansson, Helen. *See* McConkey, David J.
- Hakim, Frances. *See* Leonard, John A.
- Halenbeck, Robert. *See* Trahey, Meg.
- Hamilton, Charles R. and Vermeire, Betty A.: Complementary hemispheric specialization in monkeys. p1691 23 Dec 1988.
- Hanahan, Douglas. *See* Dycaico, Mark J.
- Hanker, Jacob S. and Giammara, Beverly L.: Biomaterials and biomedical devices. p885 11 Nov 1988.
- Hansma, P. K.; Elings, V. B.; Marti, O.; Bracker, C. E.: Scanning tunneling microscopy and atomic force microscopy: application to biology and technology. p209 14 Oct 1988.
- Hardman, Karl D. *See* Bird, Robert E.
- Harper, P. S. *See* Malhotra, S. B.
- Harrelson, Allan L. and Goodman, Corey S.: Growth cone guidance in insects: fasciclin II is a member of the immunoglobulin superfamily. p700 4 Nov 1988.
- Harrison, Stephen C. *See* Aggarwal, Aneel K.

- Hart, K. A. *See* Malhotra, S. B.
- Hart, Keith W. *See* Wilks, Helen M.
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- Hartzell, Pia. *See* McConkey, David J.
- Hawelu-Johnson, Charlyn L. *See* Stornetta, Ruth L.
- Hebda, Richard J. *See* Siemens, Alfred H.
- Heinrich, Peter. *See* Shih, Ming-Che.
- Hendrickson, Wayne A.: Crystallographic citations (letter). p347 21 Oct 1988.
- Hernández, Mario Navarrete. *See* Siemens, Alfred H.
- Hess, Charles E.: Pork barreling (letter). p846 11 Nov 1988.
- Hewick, Rodney M. *See* Wozney, John M.
- Hewitt, Kenneth: Catastrophic landslide deposits in the Karakoram Himalaya. p64 7 Oct 1988.
- Hill, Timothy D.; Dean, Nicholas M.; Boynton, Alton L.: Inositol 1,3,4,5-tetrakisphosphate induces Ca^{2+} sequestration in rat liver cells. p1176 25 Nov 1988.
- Hillis, David M. *See* Bull, J. J.
- Hirsch, Raphael. *See* Ellenhorn, Joshua D.
- Hoben, Patricia. *See* Swanson, Robert.
- Hodge, Judy A. *See* Wallace, Douglas C.
- Hoeffler, James P.; Meyer, Terry E.; Yun, Yung-dae; Jameson, J. Larry; Habener, Joel F.: Cyclic AMP-responsive DNA-binding protein: structure based on a cloned placental cDNA. p1430 9 Dec 1988.
- Hogan, Dennis P.: review of *First Births in America*, by Ronald B. Rindfuss, S. Philip Morgan, and Gray Swicegood. p305 14 Oct 1988.
- Hogg, Tad. *See* Shrager, Jeff.
- Holbrook, J. John. *See* Wilks, Helen M.
- Holden, Constance (news): Academy explores use of laboratory animals. p185 14 Oct 1988.
- "Alternative" Nobels. p1123 25 Nov 1988.
- Billion dollar price tag for new animal rules. p662 4 Nov 1988. Curbing Soviet disinformation. p665 4 Nov 1988. The ecosystem and human behavior. p663 4 Nov 1988. Family planning: a growing gap. p370 21 Oct 1988. Health problems of the homeless. p188 14 Oct 1988. Is Soviet psychiatry changing its ways? p505 28 Oct 1988. Much work but slow going on alternatives to Draize test. p185 14 Oct 1988. Rehabilitation of Sakharov continues. p506 28 Oct 1988. Research resources merger. p665 4 Nov 1988. Sakharov honored. p1123 25 Nov 1988. Soviet-based global foundation takes shape. p1122 25 Nov 1988. U.S.-Soviet ecology agreement. p1629 23 Dec 1988.
- Holt, Jeffrey T. *See* Kerr, Lawrence D.
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- Houk, Vernon N.: Radon hazard (letter). p651 4 Nov 1988.
- Hoyer, Horst: CO₂ reduction and reforestation (letter). p1494 16 Dec 1988.
- Hsu, David. *See* Yilma, Tilahun.
- Huang, Huei-Jen Su; Yee, Jiing-Kuan; Shew, Jin-Yuh; Chen, Phang-Lang; Bookstein, Robert; Friedmann, Theodore; Lee, Eva Y.-H. P.; Lee, Wen-Hwa: Suppression of the neoplastic phenotype by replacement of the RB gene in human cancer cells. p1563 16 Dec 1988.
- Huang, Xiaohua. *See* Gordon, Manuel J.
- Huberman, Bernardo A. *See* Shrager, Jeff.
- Hueber, Francis M. *See* Labandeira, Conrad C.
- Hughes, Colin R. *See* Queller, David C.
- Hughes, Mark R.; Pike, J. Wesley; Malloy, Peter J.; Kieback, Dirk G.; Kesterson, Robert A.; Feldman, David; O'Malley, Bert W.: Point mutation in the human vitamin D receptor gene associated with hypocalcemic rickets. p1702 23 Dec 1988.
- Hull, David L.: review of *The Non-Darwinian Revolution*, by Peter J. Bowler. p1710 23 Dec 1988.
- I-J**
- Imamoto-Sonobe, Naoko. *See* Yoneda, Yoshihiro.
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- Jacobson, James W. *See* Bird, Robert E.
- Jaffe, Elaine S. *See* Folks, Thomas M.
- Jakoubek, R. O. *See* Mount, G. H. *See also* Solomon, S.
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- Jämsimla-Kellokumpu, Sirpa. *See* Kellokumpu, Sakari.
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- Janzen, Daniel H.: CO₂ reduction and reforestation (letter). p1493 16 Dec 1988.
- Jessell, Thomas M. *See* Dodd, Jane.
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- Johnson, Syd. *See* Bird, Robert E.
- Johnson, Torrence V.; Veeder, Glenn J.; Matson, Dennis L.; Brown, Robert H.; Nelson, Robert M.; Morrison, David: Io: evidence for silicate volcanisms in 1986. p1280 2 Dec 1988.
- Johnston, Daniel. *See* Williams, Stephen.
- Johnston, Randal N. and Kucey, B. L.: Competitive inhibition of hsp70 gene expression causes thermosensitivity. p1551 16 Dec 1988.
- Johno, R. *See* VanDongen, A. M. J.
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- Jones, Daniel H. and Bowden, Virginia M.: Journal cancellations (letter). p1361 9 Dec 1988.
- Jones, Leslie. *See* Yilma, Tilahun.
- Jordan, Steven R. and Pablo, Carl O.: Structure of the lambda complex at 2.5 Å resolution: details of the repressor-operator interactions. p893 11 Nov 1988.
- Jull, A. J. T.; Cheng, S.; Gooding, J. L.; Velbel, M. A.: Rapid growth of magnesium-carbonate weathering products in a stony meteorite from Antarctica. p417 21 Oct 1988.
- Justement, Jesse S. *See* Folks, Thomas M.
- K**
- Kadonga, James T.; Courey, Albert J.; Ladika, Joseph; Tjian, Robert: Distinct regions of Spl modulate DNA binding and transcriptional activation. p1566 16 Dec 1988.
- Kairiss, Edward W. *See* Brown, Thomas H.
- Kaiser, Emil Thomas. *See* Miura, Hisakazu.
- Kaiser, Robert. *See* Landegren, Ulf.
- Kaljot, Kaarel T. *See* Burnete, W. Neal.
- Kaltschmidt, Christian. *See* Schüle, Roland.
- Kamel-Reid, Suzanne and Dick, John E.: Engraftment of immune-deficient mice with human hematopoietic stem cells. p1706 23 Dec 1988.
- Kaneshima, H. *See* Namikawa, R.
- Kapitulnik, X. *See* Kirk, M. D.
- Kaplan, John: The use of animals in research. p839 11 Nov 1988.
- Kaplan, Mark H. *See* Salahuddin, S. Zaki.
- Kappler, John W. *See* Carbone, Amy M.
- Karl, Peter I.; Gordon, Barbara H. J.; Lieber, Charles S.; Fisher, Stanley E.: Cetaldehyde production and transfer by the perfused human placental cotyledon. p273 14 Oct 1988.
- Kass, Robert S. *See* Walsh, Kenneth B.
- Kasten, Robert W., Jr.: Biodiversity bill (letter). p496 28 Oct 1988.
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- Keister, David. *See* Good, Michael F.
- Keith, Jerry M. *See* Burnete, W. Neal.
- Kellokumpu, Sakari; Neff, Lynn; Jämsimla-Kellokumpu, Sirpa; Kopito, Ron; Baron, Roland: A 115-kD polypeptide immunologically related to erythrocyte band 3 is present in Golgi membranes. p1308 2 Dec 1988.
- Kent, Dennis V. *See* Schneider, David A.
- Kerr, Lawrence D.; Holt, Jeffrey T.; Matriesian, Lynn M.: Growth factors regulate transin gene expression by c-fos-dependent and c-fos-independent pathways. p1424 9 Dec 1988.
- Kerr, Richard A. (news): AMPTE outfoxed by magnetosphere. p1382 9 Dec 1988. Does Earth fill its own magnetosphere with ions? p377 21 Oct 1988. The first killer crater looks like a wimp. p1380 9 Dec 1988. How catastrophic were the K-T extinctions? p1381 9 Dec 1988. Huge impact is favored K-T boundary killer. p865 11 Nov 1988. If there was one killer impact, were there more? p1381 9 Dec 1988. The killer impact is getting tamed. p1380 9 Dec 1988. New active faults in L.A. p1511 16 Dec 1988. A shallower ozone hole, as expected. p515 28 Oct 1988. Slices of continental crust coming into view. p195 14 Oct 1988. Sunspot-weather link holding up. p1124 25 Nov 1988. A sun-weather connection broken. p1012 18 Nov 1988. (letter): Radon hazard. p651 4 Nov 1988.
- Kessler, Steven W. *See* Folks, Thomas M.
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- Kevles, Daniel J.: review of *The American Development of Biology*, edited by Ronald Rainger, Keith R. Benson and Jane Maienschein. p1314 2 Dec 1988.
- Keyfitz, Nathan: Support for IIASA (letter). p496 28 Oct 1988.
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- Kiho, Yukio. *See* Yoneda, Yoshihiro.
- Kilham, Susan Soltau: review of *Complex Interactions in Lake Communities*, edited by Stephen R. Carpenter. p1450 9 Dec 1988.
- Kimelman, David; Abraham, Judith A.; Haapanta, Tapio; Palisi, Thomas M.; Kirschner, Marc W.: The presence of fibroblast growth factor in the frog egg: its role as a natural mesoderm inducer. p1053 18 Nov 1988.
- King, Frederick A.: Chimps and research (letter). p1227 2 Dec 1988.
- Kirk, Don (news): Germany drafting biotechnology law. p1376 9 Dec 1988.
- Kirk, M. D.; Nogami, J.; Baski, A. A.; Mitzi, D. B.; Kapitulnik, X.; Geballe, T. H.; Quate, C. F.: The origin of the superstructure in $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ as revealed by scanning tunneling microscopy. p1673 23 Dec 1988.
- Kirsch, John A. and Krajewski, Carey: Conflict over the molecular clock (letter). p1623 23 Dec 1988.
- Kirschner, Marc W. *See* Kimelman, David.
- Kjaer, Kristian. *See* Wolf, Sharon Grayer.
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- Klausner, Richard D. *See* Merćep, Mladen.
- Kleinegger, Christine: review of *Technology and Women's Voices*, edited by Cheris Kramarae. p1064 18 Nov 1988.
- E.; Wollberg, Z.; Bdolah, A.: Sarafotoxin, a novel vasoconstrictor peptide: phosphoinositide hydrolysis in rat heart and brain. p268 14 Oct 1988.
- Kluge, Arnold G. *See* Farris, James S.
- Kudson, C. Michael. *See* Ma, Jianjie.
- Koch, Edward I.: The war on drugs (letter). p495 28 Oct 1988.
- Koch, Roger H. *See* Clarke, John.
- Kochva, E. *See* Kloog, Y.
- Kohler, Steven W. *See* Dycaico, Mark J.

Kohlstedt, Sally Gregory: review of *Australian Science in the Making*, edited by R. W. Home. p118 7 Oct 1988.

Konradi, Andrei: Effect of the orbital debris environment on the high-energy Van Allen proton belt. p1283 2 Dec 1988.

Koob, George F. and Bloom, Floyd E.: Cellular and molecular mechanisms of drug dependence. p715 4 Nov 1988.

Kopito, Ron. *See* Kellokumpu, Sakari.

Koshland, Daniel E., Jr. (editorials): Frontiers in neuroscience. p641 4 Nov 1988. The golden median. p1225 2 Dec 1988. Results and discussions in an election year. p345 21 Oct 1988. Science advice to the President. p1489 16 Dec 1988. A tale of two techniques. p993 18 Nov 1988.

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Kroto, Harold: Space, stars, C₆₀, and soot. p1139 25 Nov 1988.

Krysell, M. and Wallace, D. W. R.: Arctic Ocean ventilation studied with a suite of anthropogenic halocarbon tracers. p746 4 Nov 1988.

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Kung, Ching. *See* Gustin, Michael C.

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L

Labandeira, Conrad C.; Beall, Bret S.; Hueber, Francis M.: Early insect diversification: evidence from a Lower Devonian bristletail from Québec. p913 11 Nov 1988.

Labarca, Cesar. *See* Leonard, Reid J.

Ladika, Joseph. *See* Kadonga, James T.

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Lamperth, Lajos. *See* Leonard, John A.

Landau, Ehud M. *See* Wolf, Sharon Grayer.

Landegren, Ulf; Kaiser, Robert; Caskey, C. Thomas; Hood, Leroy: DNA diagnostics—molecular techniques and automation. p229 14 Oct 1988.

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Lash, James W.: Malformations in chicken embryos in the Northeast (letter). p652 4 Nov 1988.

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Laughlin, R. B.: The relationship between high-temperature superconductivity and the fractional quantum Hall effect. p525 28 Oct 1988.

Lazerson, Marvin: review of *Ed School*, by Geraldine Joncich Clifford and James W. Guthrie. p306 14 Oct 1988.

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Lee, Timothy. *See* Bird, Robert E.

Lee, Wen-Hwa. *See* Huang, Huei-Jen Su.

Leiserowitz, Leslie. *See* Wolf, Sharon Grayer.

Leiter, Edward H. *See* Prochazka, Michal.

Leonard, John A.; Abramczuk, Jan W.; Pezen, David S.; Rutledge, Rosamond; Belcher, J. Harry; Hakim, Frances; Shearer, Gene; Lam-

perth, Lajos; Travis, William; Fredrickson, Torgny; Notkins, Abner L; Martin, Malcolm A.: Development of disease and virus recovery in transgenic mice containing HIV proviral DNA. p1665 23 Dec 1988.

Leonard, Reid J.; Labarca, Cesar; Charnet, Pierre; Davidson, Norman; Lester, Henry A.: Evidence that the M2 membrane-spanning region lines the ion channel pore of the nicotinic receptor. p1578 16 Dec 1988.

LeRan, C. *See* Redmond, D. E., Jr.

Leschine, S. B.; Holwell, K.; Canale-Parola, E.: Nitrogen fixation by anaerobic cellulolytic bacteria. p1157 25 Nov 1988.

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Lewis, Sally A.; Wang, Dashou; Cowan, Nicholas J.: Microtubule-associated protein MAP2 shares a microtubule binding motif with tau protein. p936 11 Nov 1988.

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Lindquist, Susan. *See* Yost, H. Joseph.

Liou, Hsiou-Chi. *See* Boothby, Mark.

_____, Boothby, Mark R.; Glimcher, Laurie H.: Distinct cloned class II MHC DNA binding proteins recognize the X box transcription element. p69 7 Oct 1988.

Lisberger, Stephen G.: The neural basis for learning of simple motor skills. p728 4 Nov 1988.

_____, and Pavelko, Terri A.: Brain stem neurons in modified pathways for motor learning in the primate vestibulo-ocular reflex. p771 4 Nov 1988.

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_____, review of *Advances in Lectin Research*, edited by Hartmut Franz, Ken-ichi Kasai, Jan Kocourek, Sjur Olsnes, and Leland M. Shanson. p604 28 Oct 1988. review of *Appraising the Ring*, compiled by Leon M. Lederman and Chris Quigg. p1586 16 Dec 1988. review of *Artifacts in Biological Electron Microscopy*, edited by Richard F. E. Crang and Karen L. Klomparens. p309 14 Oct 1988. review of *Chemistry of Nucleosides and Nucleotides*, edited by Leroy B. Townsend. p604 28 Oct 1988. review of *Domestication of Plants in the Old World*, by Daniel Zohary and Maria Hopf. p949 11 Nov 1988.

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um Isotope Geochemistry, by Donald J. DePaolo. p1585 16 Dec 1988. review of *Optical Effects Associated with Small Particles*, edited by P. W. Barber and P. K. Chang. p604 28 Oct 1988. review of *Oxidases and Related Redox Systems*, edited by Tsao E. King, Howard S. Mason, and Martin Morrison. p1185 25 Nov 1988. review of *Pheromone Biochemistry*, edited by Glenn D. Prestwich and Gary J. Blomquist. p308 14 Oct 1988. review of *Plant-Animal Interactions*, edited by Warren G. Abrahamson. p1585 16 Dec 1988. review of *Portraits of Viruses*, edited by F. Fenner and A. Gibbs. p451 21 Oct 1988. review of *The Reality Club*, edited by John Brockman. p451 21 Oct 1988. review of *Recent Advances in Thin-Layer Chromatography*, edited by F. A. A. Dallas, H. Read, R. J. Ruane, and I. D. Wilson. p451 21 Oct 1988. review of *Surveying Social Life*, edited by Hubert J. O'Gorman. p1184 25 Nov 1988.

Llinás, Rodolfo R.: The intrinsic electrophysiological properties of mammalian neurons: insights into central nervous system function. p1654 23 Dec 1988. *See also* Tank, David W. Loeb, Lawrence A. *See* Preston, Bradley D.

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Lynch, Gary. *See* Muller, Dominique.

Lynch, Kevin R. *See* Stornetta, Ruth L.

M

Ma, Jianjie; Fill, Michael; Knudson, C. Michael; Campbell, Kevin P.; Coronado, Roberto: Ryanodine receptor of skeletal muscle is a gap junction-type channel. p99 7 Oct 1988.

Mac Lane, Saunders: IIASA and modeling (letter). p1624 23 Dec 1988.

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Malamy, Michael: review of *Transposition*, edited by A. J. Kingsman, K. F. Chater, and S. M. Kingsman. p1713 23 Dec 1988.

Malek, Harry L. *See* Nunoi, Hiroyuki.

Malenka, Robert C.; Kauer, Julie A.; Zucker, Robert S.; Nicoll, Roger A.: Postsynaptic calcium is sufficient for potentiation of hippocampal synaptic transmission. p81 7 Oct 1988.

Malhotra, S. B.; Hart, K. A.; Klamut, H. J.; Thomas, N. S. T.; Bodrug, S. E.; Burghes, A. H. M.; Bobrow, M.; Harper, P. S.; Thompson, M. W.; Ray, P. N.; Worton, R. G.: Frame-shift deletions in patients with Duchenne and Becker muscular dystrophy. p755 4 Nov 1988.

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Malyj, Lorraine D. *See* Stalker, David M.

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Maratsos, Michael P.: review of *Connections and Symbols*, edited by Steven Pinker and Jacques Mehler. p1316 2 Dec 1988.

Marcell, Shaw: Drug testing (letter). p845 11 Nov 1988.

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Marochnik, Leonid S.; Mukhin, Lev M.; Sagdeev, Roald Z.: Estimates of mass and angular momentum in the Oort cloud. p547 28 Oct 1988.

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1988. The drug of champions. p183 14 Oct 1988. Erickson charge dropped. p1007 18 Nov 1988. Legal trouble for DOE's reactors. p508 28 Oct 1988. Research and the "flexible freeze" p1368 9 Dec 1988. Savannah River blues. p363 21 Oct 1988. Sic transit gloria transition. p1003 18 Nov 1988. The sludge factor. p507 28 Oct 1988. Soviet shuttle readied for first space flight. p860 11 Nov 1988. U.S.-Soviet weapons journal launched. p1243 2 Dec 1988. Worm invades computer networks. p855 11 Nov 1988. The worm's aftermath. p1121 25 Nov 1988. (letter): Drug testing. p845 11 Nov 1988.
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- Marx, Jean L. (news): AIDS mice die in NIH accident. p1502 16 Dec 1988. Are aging and death programmed in our genes? p33 7 Oct 1988. Cells commit suicide without growth factors. p1510 16 Dec 1988. Gene transfer is coming on target. p191 14 Oct 1988. Homeobox linked to gene control. p1008 18 Nov 1988. More dimensions for glutamate toxicity. p1509 16 Dec 1988. New method found for making mutant mice. p33 7 Oct 1988. The 1988 Nobel Prize for physiology or medicine. p516 28 Oct 1988. Progress reported on mouse models for AIDS. p1638 23 Dec 1988. Putting foreign genes into domestic animals. p32 7 Oct 1988. Sex hormones linked to task performance. p1509 16 Dec 1988. What T cells see and how they see it. p863 11 Nov 1988. Which clot-dissolving drug is best? p1505 16 Dec 1988. *junk* is bustin' out all over. p1377 9 Dec 1988.
- Maslansky, Robert. See Stoneburner, Rand L.
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- Mattera, R. See VanDongen, A. M. J.
- McBride, Kevin E. See Stalker, David M.
- McCann, Peter P. See Bitonti, Alan J.
- McClain, William H.; Chen, Yong-Min; Foss, K.; Schneider, Jay: Association of transfer RNA acceptor identity with a helical irregularity. p1681 23 Dec 1988.
- McConkey, David J.; Hartzell, Pia; Duddy, Steven K.; Håkansson, Helen; Orrenius, Sten: 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin kills immature thymocytes by Ca^{2+} -mediated endonuclease activation. p256 14 Oct 1988.
- McCormick, Frank. See Trahey, Meg.
- McCoubrey, William K.; Nordstrom, Kim D.; Meneely, Philip M.: Microinjected DNA from the X chromosome affects sex determination in *Caenorhabditis elegans*. p1146 25 Nov 1988.
- McCune, J. M. See Namikawa, R.
- McQuaid, Christopher. See Barkai, Amos.
- Mebus, Charles. See Yilmaz, Tilahun.
- Meneely, Philip M. See McCoubrey, William K.
- Mercep, Mladen; Bonifacio, Juan S.; Garcia-Morales, Pilar; Samelson, Lawrence E.; Klausner, Richard D.; Ashwell, Jonathan D.: T cell CD3- ζ heterodimer expression and coupling to phosphoinositide hydrolysis. p571 28 Oct 1988.
- Meyer, Terry E. See Hoefler, James P.
- Mihara, Hisakazu and Kaiser, Emil Thomas: A chemically synthesized *Antennapedia* homeo domain binds to a specific DNA sequence. p925 11 Nov 1988.
- Mildvan, Donna. See Stoneburner, Rand L.
- Miledi, Ricardo. See Akagi, Hiroyuki.
- Milhous, Wilbur K. See Bitonti, Alan J.
- Miller, David Philip: review of *Nature in Its Greatest Extent*, edited by Roy MacLeod and Philip F. Rehbock. p119 7 Oct 1988.
- Miller, Louis H. See Good, Michael F.
- Mitsock, Lisa M. See Wozney, John M.
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- Mix, Alan: review of *The Past Three Million Years*, edited by N. J. Shackleton, R. G. West, and D. Q. Bowen. p948 11 Nov 1988.
- Mizzen, Lee A. See Riabowol, Karl T.
- Molineux, Ian: review of *The Bacteriophages*, edited by Richard Calendar. p1317 2 Dec 1988.
- Moody, William J. See Simoncini, Luciana.
- Morgan, M. Granger: Pork barreling (letter). p847 11 Nov 1988.
- Morrison, David. See Johnson, Torrence V.
- Morrison, David C. (news): Marine mammals join the Navy. p1503 16 Dec 1988.
- Morzycka-Wroblewska, Ewa; Lee, F. Eun Hyung; Desiderio, Stephen V.: Unusual immunoglobulin gene rearrangement leads to replacement of recombinational signal sequences. p261 14 Oct 1988.
- Moss, Andrew R.; Osmond, Dennis; Bacchetti, Peter: The cause of AIDS (letter). p997 18 Nov 1988.
- Moss, Bernard. See Good, Michael F.
- Mount, G. H. See Solomon, S.
- ; Solomon, S.; Sanders, R. W.; Jakoubek, R. O.; Schmeltekopf, A. L.: Observations of stratospheric NO_2 and O_3 at Thule, Greenland. p555 28 Oct 1988.
- Muirhead, Hilary. See Wilks, Helen M.
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- Muller, Dominique; Joly, Michel; Lynch, Gary: Contributions of quisqualate and NMDA receptors to the induction and expression of LTP. p1694 23 Dec 1988.
- Muller, Marc. See Schüle, Roland.
- Murphree, A. Linn. See T'Ang, Anne.
- N**
- Nafotolin, F. See Redmond, D. E., Jr.
- Nakamura, Shuji. See Salahuddin, S. Zaki.
- ; Salahuddin, S. Zaki; Biberfeld, Peter; Ensoli, Barbara; Markham, Phillip D.; Wong-Staal, Flossie; Gallo, Robert C.: Kaposi's sarcoma cells: long-term culture with growth factor from retrovirus-infected CD4 $^+$ T cells. p426 21 Oct 1988.
- Nakanishi, Shigetada. See Takumi, Toru.
- Nakayama, Grace R. See Pollack, Scott J.
- Namikawa, R.; Kaneshima, H.; Lieberman, M.; Weissman, I. L.; McCune, J. M.: Infection of the SCID-hu mouse by HIV-1. p1684 23 Dec 1988.
- Narayan, Prema and Rottman, Fritz M.: An in vitro system for accurate methylation of internal adenosine residues in messenger RNA. p1159 25 Nov 1988.
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- Newton, Cathryn R.: Significance of "Tethyan" fossils in the American Cordillera. p385 21 Oct 1988.
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- Nicoll, Roger A. See Malenka, Robert C.
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- Nimtz, Günter; Marquardt, Peter; Stauffer, Dietrich; Weiss, Wilfried: Raoult's law and the melting point depression in mesoscopic systems. p1671 23 Dec 1988.
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- Norman, Colin (news): Cat study halted amid protests. p1001 18 Nov 1988. Cosmos 1900 fails safe. p28 7 Oct 1988. Cut-price plan offered for SDI deployment. p24 7 Oct 1988. EPA sets new policy on pesticide cancer risks. p366 21 Oct 1988. Science after the election. p1002 18 Nov 1988. SDI plan endorsed. p189 14 Oct 1988. Security at weapons labs. p365 21 Oct 1988. Stanford inquiry casts doubt on 11 papers. p659 4 Nov 1988. Stealth bomber: evading flak over cost, mission. p1372 9 Dec 1988. Technology legislation previewed. p861 11 Nov 1988. Test ban talks reach impasse. p1628 23 Dec 1988. Thomas to leave EPA. p1243 2 Dec 1988. (letter): Cat research at Cornell. p1361 9 Dec 1988.
- Norris, David; Dunn, Barbara; Osley, Mary Ann: The effect of histone gene deletions on chromatin structure in *Saccharomyces cerevisiae*. p759 4 Nov 1988.
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- Nunoi, Hiroyuki; Rotrosen, Daniel; Gallin, John I.; Malech, Harry L.: Two forms of autosomal chronic granulomatous disease lack distinct neutrophil cytosol factors. p1298 2 Dec 1988.

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- Odum, Howard T.: Self-organization, transformativity, and information. p1132 25 Nov 1988.
- Oduola, A. M. J. See Bitonti, Alan J.
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- O'Steen, Shyril. See Bull, J. J.
- Osterbrock, Donald E.: review of *The Cold Light of Dawn*, by Richard A. Jarrell. p1583 16 Dec 1988.
- Otero, Angela S.; Breitwieser, Gerda E.; Szabo, Gabor: Activation of muscarinic potassium currents by ATP γ S in atrial cells. p443 21 Oct 1988.
- Ovodov, Sergey Yu. See Spirin, Alexander S.
- Ovrut, Burt: review of *Superstrings*, edited by P. C. W. Davies and Julian Brown. p1584 16 Dec 1988.
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- Pabo, Carl O. See Jordan, Steven R.
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- Papayannopoulou, Thalia; Enver, Tariq; Tagegawa, Susumu; Anagnos, Nicholas P.; Stamatoyannopoulos, George: Activation of developmentally mutated human globin genes by cell fusion. p1056 18 Nov 1988.
- Patzer, Eric J. See Till, Mark A.
- Pavelko, Terri A. See Lisberger, Stephen G.
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- Piperino, Dolores R. See Siemens, Alfred H.
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- Plotkin, Sheldon C.: Eliminating NO_x (letter). p1623 23 Dec 1988.
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- Podila, Gopi K.; Dickman, Martin B.; Kotattukudy, P. E.: Transcriptional activation of a

- cutinase gene in isolated fungal nuclei by plant cutin monomers. p922 11 Nov 1988.
- Poggio, T.; Gamble, E. B.; Little, J. J.: Parallel integration of vision modules. p436 21 Oct 1988.
- Poiesz, Bernard J. *See* Preston, Bradley D.
- Pois, Robert A.: review of *Racial Hygiene*, by Robert Proctor. p785 4 Nov 1988.
- Pollack, Scott J.; Nakayama, Grace R.; Schultz, Peter G.: Introduction of nucleophiles and spectroscopic probes into antibody combining sites. p1038 18 Nov 1988.
- Pollard, Amy J. *See* Dycaico, Mark J.
- Pool, Robert (news): The Allais paradox. p512 28 Oct 1988. A chance to retake TV market? p30 7 Oct 1988. The elusive replacements for CFCs. p666 4 Nov 1988. "Fifth force" update: more tests needed. p1499 16 Dec 1988. Harvard's Blumenthal advises Dukakis. p187 14 Oct 1988. Market theorist gets Nobel nod. p511 28 Oct 1988. Microscopic motor is a first step. p379 21 Oct 1988. MIT to get superconductor patent. p1379 9 Dec 1988. The old and the new. p667 4 Nov 1988. One more family of superconductors. p1125 25 Nov 1988. Setting a new standard. p29 7 Oct 1988. Similar experiments, dissimilar results. p192 14 Oct 1988. Superconductor rumor. p1376 9 Dec 1988. A testable theory of superconductivity. p31 7 Oct 1988.
- Pope, Sharon H. *See* Bird, Robert E.
- Porter, James P. *See* Till, Mark A.
- Powledge, Tabitha M.: Why AAAS doesn't lobby. Much (AAAS). p108 7 Oct 1988.
- Preston, Bradley D.; Poiesz, Bernard J.; Loeb, Lawrence A.: Fidelity of HIV-1 reverse transcriptase. p1168 25 Nov 1988.
- Pritchett, Dolan B.; Sontheimer, Harald; Gorman, Cornelia M.; Kettenmann, Helmut; Seeburg, Peter H.; Schofield, Peter R.: Transient expression shows ligand gating and allosteric potentiation of GABA_A receptor subunits. p1306 2 Dec 1988.
- Prochazka, Michal; Leiter, Edward H.; Serreze, David V.; Coleman, Douglas L.; Jackson, Richard A.: Diabetic mouse incorrectly typed (technical comment). p945 11 Nov 1988.
- Ptashne, Mark. *See* Aggarwal, Aneel K.

Q

- Quakyi, Isabella A. *See* Good, Michael F.
- Quate, C. F. *See* Kirk, M. D.
- Queller, David C.; Strassmann, Joan E.; Hughes, Colin R.: Genetic relatedness in colonies of tropical wasps with multiple queens. p1155 25 Nov 1988.
- Quensen, John F., III; Tiedje, James M.; Boyd, Stephen A.: Reductive dechlorination of polychlorinated biphenyls by anaerobic microorganisms from sediments. p752 4 Nov 1988.
- Quiocco, Florante A. *See* Vydas, Nand K.

R

- Ray, P. N. *See* Malhotra, S. B.
- Rebek, Julius, Jr. *See* Benzing, Tom.
- Redmond, D. E., Jr.; Naftolin, F.; Collier, T. J.; Leranth, C.; Robbins, R. J.; Sladek, C. D.; Roth, R. H.; Sladek, J. R., Jr.: Cryopreservation, culture, and transplantation of human fetal mesencephalic tissue into monkeys. p768 4 Nov 1988.
- Rehm, Hubert. *See* Thomas, Leo.
- Relman, Arnold S.: Relman on Maddox (letter). p348 21 Oct 1988.
- Renkawitz, Rainer. *See* Schüle, Roland.
- Renne, Paul R. and Onstott, Tullis C.: Laser-

- selective demagnetization: a new technique in paleomagnetism and rock magnetism. p1152 25 Nov 1988.
- Reppert, Steven M.; Weaver, David R.; Rivkees, Scott A.; Stopa, Edward G.: Putative melatonin receptors in a human biological clock. p78 7 Oct 1988.
- Rhodes, Frank H. T.: Cat research at Cornell (letter). p1361 9 Dec 1988.
- Riabowol, Karl T.; Mizzen, Lee A.; Welch, William J.: Heat shock is lethal to fibroblasts microinjected with antibodies against hsp70. p433 21 Oct 1988.
- Rich, P. V.; Rich, T. H.; Wagstaff, B. E.; Mason, J.; McEwen; Douthitt, C. B.; Gregory, R. T.; Felton, E. A.: Evidence for low temperatures and biologic diversity in Cretaceous high latitudes of Australia. p1403 9 Dec 1988.
- Rich, T. H. *See* Rich, P. V.
- Richards, Frederic M.: Crystallographic citations (letter). p347 21 Oct 1988.
- Richardson, David. *See* Richardson, Jane.
- Richardson, Jane and Richardson, David: Corrections (letter). p1624 23 Dec 1988.
- Riggs, Alan C. *See* Winograd, Isaac J.
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- Rivkees, Scott A. *See* Reppert, Steven M.
- Robbins, Charles T.; Baer, Janet F.; Wright, Raymond W.; Nelson, Richard J.: Panda conservation (letter). p845 11 Nov 1988.
- Robbins, R. J. *See* Redmond, D. E., Jr.
- Roberts, John D.; Bebenek, Katarzyna; Kunkel, Thomas A.: The accuracy of reverse transcriptase from HIV-1. p1171 25 Nov 1988.
- Roberts, Leslie (news): Beyond Noah's ark: what do we need to know? p1247 2 Dec 1988.
- Broder picked to head NCI. p1239 2 Dec 1988. Carving up the human genome. p1244 2 Dec 1988. Extinction imminent for native plants. p1508 16 Dec 1988. Gene transfer test back on track. p1502 16 Dec 1988. Genome project. p1123 25 Nov 1988. Is there life after climate change? p1010 18 Nov 1988. A sequencing reality check. p1245 2 Dec 1988.
- Robertson, Robin C. *See* Rosenberg, Michael B.
- Robinow, Steven; Campos, Ana Regina; Yao, Kwok-Ming; White, Kalpana: The *elav* gene product of *Drosophila*, required in neurons, has three RNP consensus motifs. p1570 16 Dec 1988.
- Robinson, H. L. *See* Somasundaran, M.
- Robock, Alan: Enhancement of surface cooling due to forest fire smoke. p911 11 Nov 1988.
- Rodan, Gideon A. *See* Thiede, Mark A.
- Rodgers, David W. *See* Aggarwal, Aneel K.
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- Rose, George D.: Crystallographic citations (letter). p347 21 Oct 1988.
- Rosen, Vicki. *See* Wozney, John M.
- Rosenberg, Michael B.; Friedmann, Theodore; Robertson, Robin C.; Tuszyński, Mark; Wolff, Jon A.; Breakefield, Xandra O.; Gage, Fred H.: Grafting genetically modified cells to the damaged brain: restorative effects of NGF expression. p1575 16 Dec 1988.
- Rosendorff, Clive: South African visa refusal (letter). p495 28 Oct 1988.
- Rossan, Richard N. *See* Bitonti, Alan J.
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- Roth, Richard A. *See* Affholter, Joseph A.
- Rotrosen, Daniel. *See* Nunoi, Hiroyuki.
- Rottman, Fritz M. *See* Narayan, Prema.
- Rubinfeld, Bonnee. *See* Trahey, Meg.
- Ruby, Stephanie W. and Abelson, John: An early hierarchic role of U1 small nuclear ribonucleoprotein in spliceosome assembly. p1028 18 Nov 1988.
- Rust, W. David: review of *The Lightning Discharge*, by Martin A. Uman. p1713 23 Dec 1988.
- Rust, William F. and Sharer, Robert J.: Olmec settlement data from La Venta, Tabasco, Mexico. p102 7 Oct 1988.
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S

- Safinya, Cyrus R. *See* Sirota, Eric B.
- Sagdeev, Roald Z. *See* Marochnik, Leonid S.
- Salahuddin, S. Zaki. *See* Nakamura, Shuji.
- Nakamura, Shuji; Biberfeld, Peter; Kaplan, Mark H.; Markham, Phillip D.; Larsson, Lena; Gallo, Robert C.: Angiogenic properties of Kaposi's sarcoma-derived cells after long-term culture in vitro. p430 21 Oct 1988.
- Samelson, Lawrence E. *See* Mercep, Mladen.
- Sanders, R. W. *See* Mount, G. H. *See also* Solomon, S.
- Sato, Hiroko. *See* Burnete, W. Neal.
- Scheller, Richard H. and Barchas, Jack D.: Molecular neurobiology—a conference sponsored by the NIMH. p13 7 Oct 1988.
- Schmeltekopf, A. L. *See* Mount, G. H. *See also* Solomon, S.
- Schneider, David A. and Kent, Dennis V.: The Paleomagnetic field from equatorial deep-sea sediments: axial symmetry and polarity asymmetry. p252 14 Oct 1988.
- Schneider, Jay. *See* McClain, William H.
- Schofield, Peter R. *See* Pritchett, Dolan B.
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- Schüle, Roland; Müller, Marc; Kaltschmidt, Christian; Renkawitz, Rainer: Many transcription factors interact synergistically with steroid receptors. p1418 9 Dec 1988.
- Schulman, LaDonne H. and Pelka, Heike: Anticodon switching changes the identity of methionine and valine transfer RNAs. p765 4 Nov 1988.
- Schultz, Peter G. *See* Pollack, Scott J.
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- Schuster, Charles R.: NIDA's role in war on drugs (letter). p15 7 Oct 1988.
- Scotto, Joseph; Cotton, Gerald; Urbach, Frederick; Berger, Daniel; Fears, Thomas: Global stratospheric ozone and UVB radiation (letter). p1111 25 Nov 1988.
- Seeburg, Peter H. *See* Pritchett, Dolan B.
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- Sette, Alessandro. *See* Buus, Søren.
- Shapiro, Bennett M. *See* Turner, Eric.
- Sharer, Robert J. *See* Rust, William F.
- Shatz, Carla J. and Stryker, Michael P.: Prenatal tetrodotoxin infusion blocks segregation of retinogeniculate afferents. p87 7 Oct 1988.
- Shearer, Gene. *See* Leonard, John A.
- Shepard, Roger N.: Toward a universal law of generalization (technical comment). p944 11 Nov 1988.
- Shew, Jin-Yuh. *See* Huang, Hui-Jen Su.
- Shih, Ming-Che; Heinrich, Peter; Goodman, Howard M.: Intron existence predated the divergence of eukaryotes and prokaryotes. p1164 25 Nov 1988.
- Shiina, Tetsuo. *See* Tanaka, Kan.
- Short, Heidi P. *See* Dycaico, Mark J.
- Shrager, Jeff; Hogg, Tad; Huberman, Bernardo A.: A graph-dynamic model of the power law of practice and the problem-solving fan-effect. p414 21 Oct 1988.
- Siemens, Alfred H.; Hebda, Richard J.; Hernán-

- dez, Mario Navarrete; Piperno, Dolores R.; Stein, Julie K.; Báez, Manuel G. Zolá: Evidence for a cultivar and a chronology from patterned wetlands in central Veracruz, Mexico. p105 7 Oct 1988.
- Sigman, David S. *See* Briskin, Michael.
- Simoncini, Luciana; Block, Melodye L.; Moody, William J.: Lineage-specific development of calcium currents during embryogenesis. p1572 16 Dec 1988.
- Singer, Wolf. *See* Greuel, Joachim M.
- Singh, Gurparkash. *See* Wallace, Douglas C.
- Sirota, Eric B.; Smith, Gregory S.; Safinya, Cyrus R.; Plano, Robert J.; Clark, Noel A.: X-ray scattering studies of aligned, stacked surfactant membranes. p1406 9 Dec 1988.
- Sjoerdsma, Albert. *See* Bitonti, Alan J.
- Sladek, C. D. *See* Redmond, D. E., Jr.
- Sladek, J. R., Jr. *See* Redmond, D. E., Jr.
- Sleight, A. W. *See* Subramanian, M. A.
- : Chemistry of high-temperature superconductors. p1519 16 Dec 1988.
- Slobodkin, L. B.: review of *Seventy-Five Years in Ecology*, by John Sheail. p784 4 Nov 1988.
- Smalley, Richard E. *See* Curl, Robert F.
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- Smith, A. Ian. *See* Funder, John W.
- Smith, Gregory S. *See* Sirota, Eric B.
- Smith, Harry T.: review of *Ubiquitin*, edited by Martin Rechsteiner. p787 4 Nov 1988.
- Smith, J. Maynard: review of *Science as a Process*, by David L. Hull. p1182 25 Nov 1988.
- Smith, Peter L. and Baenziger, Jacques U.: A pituitary N-acetylgalactosamine transferase that specifically recognizes glycoprotein hormones. p930 11 Nov 1988.
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- Smith, Stephen J.: Neuronal cytomechanics: the actin-based motility of growth cones. p708 4 Nov 1988.
- Sokolovsky, M. *See* Kloog, Y.
- Söll, Dieter. *See* Swanson, Robert.
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- Solomon, S. *See* Mount, G. H.
- ; Mount, G. H.; Sanders, R. W.; Jakoubek, R. O.; Schmeltekopf, A. L.: Observations of the nighttime abundance of OCIO in the winter stratosphere above Thule, Greenland. p550 28 Oct 1988.
- Somasundaran, M. and Robinson, H. L.: Unexpectedly high levels of HIV-1 RNA and protein synthesis in a cytocidal infection. p1554 16 Dec 1988.
- Sommerfelt, Maja A.; Williams, Brenda P.; Clapham, Paul R.; Solomon, Ellen; Goodfellow, Peter N.; Weiss, Robin A.: Human T cell leukemia viruses use a receptor determined by human chromosome 17. p1557 16 Dec 1988.
- Sontheimer, Harald. *See* Pritchett, Dolan B.
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- Sorrells, Vincenza. *See* Bass, Steven.
- Sotheran, Jo L. *See* Stoneburner, Rand L.
- Sowers, T. *See* Craig, H. (p1675).
- Spirin, Alexander S.; Baranov, Vladimir I.; Ryabova, Lubov' A.; Ovodov, Sergey Yu.; Alakhov, Yuly B.: A continuous cell-free translation system capable of producing polypeptides in high yield. p1162 25 Nov 1988.
- Spitzer, Robert L.; Williams, Janet B. W.; Pincus, Harold Alan: Psychiatric diagnosis (letter). p651 4 Nov 1988.
- Stalker, David M.; McBride, Kevin E.; Malyj, Loraine D.: Herbicide resistance in transgenic plants expressing a bacterial detoxification gene. p419 21 Oct 1988.
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- poulou, Thalia.
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- Stein, Julie K. *See* Siemens, Alfred H.
- Stevens, C. M. *See* Craig, H. (p1535).
- Stewart, Walter W. and Feder, Ned: Battle over error (letter). p167 14 Oct 1988.
- Stoneburner, Rand L.; Des Jarlais, Don C.; Ben Ezra, Diane; Gorelikin, Leo; Sotheran, Jo L.; Friedman, Samuel R.; Schultz, Stephen; Marmon, Michael; Mildvan, Donna; Maslansky, Robert: A larger spectrum of severe HIV-1-related disease in intravenous drug users in New York City. p916 11 Nov 1988.
- Stopa, Edward G. *See* Reppert, Steven M.
- Stornetta, Ruth L.; Hawelu-Johnson, Charlyn L.; Guyenet, Patrice G.; Lynch, Kevin R.: Astrocytes synthesize angiotensinogen in brain. p1444 9 Dec 1988.
- Strassmann, Joan E. *See* Queller, David C.
- Stryker, Michael P. *See* Shatz, Carla J.
- Subramanian, M. A.; Torardi, C. C.; Gopalakrishnan, J.; Gai, P. L.; Calabrese, J. C.; Askew, T. R.; Flippin, R. B.; Sleight, A. W.: Bulk superconductivity up to 122 K in the Tl-Pb-Sr-Ca-Cu-O system. p249 14 Oct 1988.
- Sugimori, Mutsuyuki. *See* Tank, David W.
- Summer-Smith, Martin. *See* Swanson, Robert.
- Sun, Marjorie (news): Congress passes reforms in pesticide law. p27 7 Oct 1988. . . . Japanese pick site for 8-GeV facility. p1631 23 Dec 1988. Preparing the ground for biotech tests. p503 28 Oct 1988.
- Sur, Mriganka; Garraghty, Preston E.; Roe, Anna W.: Experimentally induced visual projections into auditory thalamus and cortex. p1437 9 Dec 1988.
- Svare, Bruce: Steroid use and aggressive behavior (letter). p1227 2 Dec 1988.
- Swanson, Robert; Hoben, Patricia; Summer-Smith, Martin; Uemura, Haruki; Watson, Lynley; Söll, Dieter: Accuracy of in vivo aminoacylation requires proper balance of tRNA and aminoacyl-tRNA synthetase. p1548 16 Dec 1988.
- Swartz, James: CO₂ reduction and reforestation (letter). p1494 16 Dec 1988.
- Szabo, Barney J. *See* Winograd, Isaac J.
- Szabo, Gabor. *See* Otero, Angela S.
- Szkody, Paula: review of *High Speed Astronomical Photometry*, by Brian Warner. p1451 9 Dec 1988.
- ## T
- Takahashi, Hideo. *See* Tanaka, Kan.
- Takeda, Akira; Tuazon, Carmelita U.; Ennis, Francis A.: Antibody-enhanced infection by HIV-1 via Fc receptor-mediated entry. p580 28 Oct 1988.
- Takegawa, Susumu. *See* Papayannopoulos, Thalia.
- Takumi, Toru; Ohkubo, Hiroaki; Nakanishi, Shigetada: Cloning of a membrane protein that induces a slow voltage-gated potassium current. p1042 18 Nov 1988.
- Tanaka, Kan; Shiina, Tetsuo; Takahashi, Hideo: Multiple principal sigma factor homologs in eubacteria: identification of the "rp0D box" p1040 18 Nov 1988.
- T'Ang, Anne; Varley, Jennifer M.; Chakraborty, Shikha; Murphree, A. Linn; Fung, Yuen-Kai T.: Structural rearrangement of the retinoblastoma gene in human breast carcinoma. p263 14 Oct 1988.
- Tank, David W.; Sugimori, Mutsuyuki; Connor, John A.; Llinás, Rodolfo R.: Spatially resolved calcium dynamics of mammalian Purkinje cells in cerebellar slice. p773 4 Nov 1988.
- Tapscott, Stephen J.; Davis, Robert L.; Thayer, Mathew J.; Cheng, Pei-Feng; Weintraub, Harold; Lassar, Andrew B.: MyoD1: a nuclear phosphoprotein requiring a Myc homology region to convert fibroblasts to myoblasts. p405 21 Oct 1988.
- Tartakoff, Alan. *See* Gupta, Dwijendra.
- Tepley, C. A. *See* Bernhardt, P. A.
- Thayer, Mathew J. *See* Tapscott, Stephen J.
- Thiede, Mark A. and Rodan, Gideon A.: Expression of a calcium-mobilizing parathyroid hormone-like peptide in lactating mammary tissue. p278 14 Oct 1988.
- Thomas, Leo; Hartung, Klaus; Langosch, Dieter; Rehm, Hubert; Bamberg, Ernst; Franke, Werner W.; Betz, Heinrich: Identification of synaptophysin as a hexameric channel protein of the synaptic vesicle membrane. p1050 18 Nov 1988.
- Thomas, N. S. T. *See* Malhotra, S. B.
- Thompson, M. W. *See* Malhotra, S. B.
- Tiedje, James M. *See* Quensen, John F., III.
- Till, Mark A.; Ghettie, Victor; Gregory, Timothy; Patzer, Eric J.; Porter, James P.; Uhr, Jonathan W.; Capon, Daniel J.; Vitetta, Ellen S.: HIV-infected cells are killed by rCD4-ricin A chain. p1166 25 Nov 1988.
- Ting, Irwin P.: review of *Environmental Biology of Agaves and Cacti*, by Park S. Nobel. p948 11 Nov 1988.
- Tisdale, Ellen. *See* Gupta, Dwijendra.
- Tjian, Robert. *See* Kadonga, James T.
- Tjivikua, Tjama. *See* Benzing, Tom.
- Toohey, D. W. *See* Brune, W. H.
- Torardi, C. C. *See* Subramanian, M. A.
- Torrey, Barbara Boyd. *See* Smeeding, Timothy M.
- Trachtenberg, Alan I. and Winter, Sharon L.: The cause of AIDS (letter). p997 18 Nov 1988.
- Trahey, Meg; Wong, Gail; Halenbeck, Robert; Rubinfeld, Bonnee; Martin, George A.; Ladner, Martha; Long, Christopher M.; Crozier, Walter J.; Watt, Ken; Koths, Kirston; McCormick, Frank: Molecular cloning of two types of GAP complementary DNA from human placenta. p1697 23 Dec 1988.
- Travis, William. *See* Leonard, John A.
- Trenberth, Kevin E.; Branstrom, Grant W.; Arkin, Phillip A.: Origins of the 1988 North American drought. p1640 23 Dec 1988.
- Tuazon, Carmelita U. *See* Takeda, Akira.
- Turner, Eric; Hager, Lisa J.; Shapiro, Bennett M.: Ovothiol replaces glutathione peroxidase as a hydrogen peroxide scavenger in sea urchin eggs. p939 11 Nov 1988.
- Tuszynski, Mark. *See* Rosenberg, Michael B.
- ## U-V
- Uchida, Tsuyoshi. *See* Yoneda, Yoshihiro.
- Uemura, Haruki. *See* Swanson, Robert.
- Uhr, Jonathan W. *See* Till, Mark A.
- Urbach, Frederick. *See* Scotto, Joseph.
- Vadas, Mathew A. *See* Gamble, Jennifer R.
- Valdivia, Hector H.; Dubinsky, William P.; Coronado, Roberto: Reconstitution and phosphorylation of chloride channels from airway epithelium membranes. p1441 9 Dec 1988.
- VanDongen, A. M. J.; Codina, J.; Olate, J.; Mattera, R.; Joho, R.; Birnbaumer, L.; Brown, A. M.: Newly identified brain potassium channels gated by the guanine nucleotide binding protein G_o. p1433 9 Dec 1988.
- van Schooten, Wim C. A. *See* Anderson, D. C.
- Van Tendeloo, G. *See* Ghose, Subrata.
- Varley, Jennifer M. *See* T'Ang, Anne.
- Vedder, J. F. *See* Brune, W. H.

- Veeder, Glenn J. *See* Johnson, Torrence V.
 Velbel, M. A. *See* Jull, A. J. T.
 Vermeire, Betty A. *See* Hamilton, Charles R.
 Vitetta, Ellen S. *See* Till, Mark A.
 Volpp, Bryan D.; Nauseef, William M.; Clark, Robert A.: Two cytosolic neutrophil oxidase components absent in autosomal chronic granulomatous disease. p1295 2 Dec 1988.
 Vyas, Meenakshi N. *See* Vyas, Nand K.
 Vyas, Nand K.; Vyas, Meenakshi N.; Quirocho, Florante A.: Sugar and signal-transducer binding sites of the *Escherichia coli* galactose chemo-receptor protein. p1290 2 Dec 1988.

W

- Wagstaff, B. E. *See* Rich, P. V.
 Waldrop, M. Mitchell (news): Collapse of a radio giant. p1120 25 Nov 1988. Discovery gets a clean bill of health. p375 21 Oct 1988. Galeev to head space research institute. p1376 9 Dec 1988. Liftoff. p23 7 Oct 1988. NeXT embraces a new way of programming. p1126 25 Nov 1988. A Nobel Prize for the two-neutrino experiment. p669 4 Nov 1988. The quantum wave function of the universe. p1248 2 Dec 1988. Shroud of Turin is medieval. p378 21 Oct 1988. Soviets invite U.S. scientists to planets. p1007 18 Nov 1988. Space reactors hinder gamma-ray astronomy. p1119 25 Nov 1988. U.S. and partners sign space station agreement. p22 7 Oct 1988.
 Wall, Randolph. *See* Briskin, Michael.
 Wallace, D. W. R. *See* Krysell, M.
 Wallace, Douglas C.; Singh, Gurparkash; Lott, Marie T.; Hodge, Judy A.; Schurr, Theodore G.; Lezza, Angela M. S.; Elsas, Louis J., II; Nikoskelainen, Eeva K.: Mitochondrial DNA mutation associated with Leber's hereditary optic neuropathy. p1427 9 Dec 1988.
 Walsh, John (news): Locusts in Africa: a plague is possible. p1627 23 Dec 1988. NSF names first 11 science centers. p1370 9 Dec 1988. NSF pauses to assess engineering centers. p371 21 Oct 1988. Supercomputer centers enter new phase. p367 21 Oct 1988.
 Walsh, Kenneth B. and Kass, Robert S.: Regulation of a heart potassium channel by protein kinase A and C. p67 7 Oct 1988.
 Wang, Dashou. *See* Lewis, Sally A.
 Wang, Elizabeth A. *See* Wozney, John M.
 Ward, Eric R. and Barnes, Wayne M.: VirD2 protein of *Agrobacterium tumefaciens* very tightly linked to the 5' end of T-strand DNA. p927 11 Nov 1988.
 Warren, Warren S.: Effects of pulse shaping in laser spectroscopy and nuclear magnetic resonance. p878 11 Nov 1988.
 Washburn, Deborah F. and Livingston, Katherine: review of *Crystals in Gels and Liesegang Rings*, by Heinz K. Henisch. p1585 16 Dec 1988.
 Watson, Lynley. *See* Swanson, Robert.

- Watt, Ken. *See* Trahey, Meg.
 Weaver, David R. *See* Reppert, Steven M.
 Weinrich, James D.: Sex survey (letter). p16 7 Oct 1988.
 Weintraub, Harold. *See* Tapscott, Stephen J.
 Weiss, Robin A. *See* Sommerfelt, Maja A.
 Weiss, Wilfried. *See* Nimtz, Günter.
 Weissman, I. L. *See* Namikawa, R.
 Welch, William J. *See* Riabowol, Karl T.
 Welhan, J. A. *See* Craig, H. (p1535).
 Wells, Robert V.: review of *The American Census*, by Margo J. Anderson. p448 21 Oct 1988.
 Wessler, Susan R.: Phenotypic diversity mediated by the maize transposable elements *Ac* and *Spm*. p399 21 Oct 1988.
 White, Kalpana. *See* Robinow, Steven.
 White, Marge: AAAS council (AAAS). p109 7 Oct 1988. Memo to members (AAAS). p1312 2 Dec 1988.
 Whitlow, Marc. *See* Bird, Robert E.
 Whitters, Matthew J. *See* Wozney, John M.
 Wier, Marjorie and Edidin, Michael: Constraint of the translational diffusion of a membrane glycoprotein by its external domains. p412 21 Oct 1988.
 Wiest, Deborah R. *See* Golden, James W.
 Wilcox, Howard A. and North, Wheeler J.: CO₂ reduction and reforestation (letter). p1493 16 Dec 1988.
 Wilczek, Frank A.: review of *Between Quantum and Cosmos*, edited by Wojciech Hibert Zurek, Alwyn van der Merwe, and Warner Allen Miller. p603 28 Oct 1988.
 Wilks, Helen M.; Hart, Keith W.; Feeney, Raymond; Dunn, Cameron R.; Muirhead, Hilary; Chia, William N.; Barstow, David A.; Atkinson, Tony; Clarke, Anthony R.; Holbrook, J. John: A specific, highly malate dehydrogenase by redesign of a lactate dehydrogenase framework. p1541 16 Dec 1988.
 Williams, Brenda P. *See* Sommerfelt, Maja A.
 Williams, David McB.: review of *Ecology of Tropical Oceans*, by Alan R. Longhurst and Daniel Pauly. p1065 18 Nov 1988.
 Williams, Janet B. W. *See* Spitzer, Robert L.
 Williams, Stephen and Johnston, Daniel: Muscarinic depression of long-term potentiation in CA3 hippocampal neurons. p84 7 Oct 1988.
 Wills, Derek: review of *Galactic and Extragalactic Radio Astronomy*, edited by G. L. Verschuur and K. I. Kellermann. p1065 18 Nov 1988.
 Wilson, Margo. *See* Daly, Martin.
 Winograd, Isaac J.; Szabo, Barney J.; Coplen, Tyler B.; Riggs, Alan C.: A 250,000-year climatic record from Great Basin vein calcite: implications for Milankovitch theory. p1275 2 Dec 1988.
 Winston, Mark L.: review of *Interindividual Behavioral Variability in Social Insects*, edited by Robert L. Jeanne. p121 7 Oct 1988.
 Winter, Sharon L. *See* Trachtenberg, Alan I.
 Wise, Steven P. and Desimone, Robert: Behavioral neurophysiology: insights into seeing and grasping. p736 4 Nov 1988.
 Wolf, Sharon Grayer; Deutsch, Moshe; Landau, Ehud M.; Lahav, Meir; Leiserowitz, Leslie; Kjaer, Kristian; Als-Nielsen, Jens: A synchrotron x-ray study of a solid-solid phase transition in a two-dimensional crystal. p1286 2 Dec 1988.
 Wolfe, Judith. *See* Benzing, Tom.
 Wolff, Jon A. *See* Rosenberg, Michael B.
 Wollberg, Z. *See* Kloog, Y.
 Wong, Gail. *See* Trahey, Meg.
 Wong, Grace H. W. and Goeddel, David V.: Induction of manganese superoxide dismutase by tumor necrosis factor: possible protective mechanism. p941 11 Nov 1988.
 Wong-Staal, Flossie. *See* Nakamura, Shuji.
 Woodman, Harold D.: review of *The Law of the Land*, by John Opie. p1183 25 Nov 1988.
 Woodwell, G. M.: CO₂ reduction and reforestation (letter). p1493 16 Dec 1988.
 Worton, R. G. *See* Malhotra, S. B.
 Wozney, John M.; Rosen, Vicki; Celeste, Anthony J.; Mitsock, Lisa M.; Whitters, Matthew J.; Kriz, Ronald W.; Hewick, Rodney M.; Wang, Elizabeth A.: Novel regulators of bone formation: molecular clones and activities. p1528 16 Dec 1988.
 Wright, Raymond W. *See* Robbins, Charles T.
 Wyllie, Peter J.: review of *The Behavior of the Earth*, by Claude Allègre. p1451 9 Dec 1988.

Y-Z

- Yaish, Pnina; Gazit, Aviv; Gilon, Chaim; Leitzki, Alexander: Blocking of EGF-dependent cell proliferation by EGF receptor kinase inhibitors. p933 11 Nov 1988.
 Yamanaka, Miles. *See* Yilma, Tilahun.
 Yao, Kwok-Ming. *See* Robinow, Steven.
 Yee, Jiing-Kuan. *See* Huang, Hui-Jen Su.
 Yilma, Tilahun; Hsu, David; Jones, Leslie; Owens, Sally; Grubman, Marvin; Mebus, Charles; Yamanaka, Miles; Dale, Beverly: Protection of cattle against rinderpest with vaccinia virus recombinants expressing the HA or F gene. p1058 18 Nov 1988.
 Yoneda, Yoshihiro; Imamoto-Sonobe, Naoko; Matsuoka, Yosuke; Iwamoto, Ryo; Kiho, Yukio; Uchida, Tsuyoshi: Antibodies to Asp-Asp-Glu-Asp can inhibit transport of nuclear proteins into the nucleus. p275 14 Oct 1988.
 Yost, H. Joseph and Lindquist, Susan: Translation of unspliced transcripts after heat shock. p1544 16 Dec 1988.
 Youderian, Philip. *See* Bass, Steven.
 Yun, Yungdae. *See* Hoeffler, James P.
 Zare, Richard N. *See* Gordon, Manuel J.
 Zewail, Ahmed H.: Laser femtochemistry. p1645 23 Dec 1988.
 Zhou, Xin-Liang. *See* Gustin, Michael C.
 Ziskin, Jay. *See* Faust, David.
 Zucker, Robert S. *See* Malenka, Robert C.