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Fowler, Raymond D. and Matarazzo, Joseph D.: Psychologists and psychiatrists as expert witnesses (letter). p1143 2 Sep 1988.
Fox, Paul L. and DiCorleto, Paul E.: Fish oils inhibit endothelial cell production of platelet-derived growth factor-like protein. p453 22 July 1988.

Fox, Peter T.; Raichle, Marcus E.; Mintun, Mark A.; Dence, Carmen: Nonoxidative glucose consumption during focal physiologic neural activity. p462 22 July 1988.
Franza, B. Robert. See Ballard, Dean W.
Fraser, Blair. See Lifson, Jeffrey D.
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Frederick, John E. and Snell, Hilary E.: Ultraviolet radiation levels during the Antarctic spring. p438 22 July 1988.

Fredrikson, Gudrun. See Holm, Cecilia.
Freed, William J.: Adrenal medulla grafts in animals (letter). p275 15 July 1988.
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Gao, Yan; Lee, Peter; Coppens, Philip; Subra-

manian, M. A.; Sleight, A. W.: The incommensurate modulation of the 2212 Bi-Sr-Ca-Cu-O superconductor. p954 19 Aug 1988.

Garnick, Marc. See Donahue, Robert E.
Garthoff, Raymond L.: review of *U.S.-Soviet Security Cooperation*, edited by Alexander L. George, Philip J. Farley, and Alexander Dallin. p1517 16 Sep 1988.

Gasson, Judith C. See Koyanagi, Yoshio.
Gazdar, Adi F. See Harbour, J. William.
Gehlsen, Kurt R.; Dillner, Lena; Engvall, Eva; Ruoslahti, Erkki: The human laminin receptor is a member of the integrin family of cell adhesion receptors. p1228 2 Sep 1988.
Geller, Alfred I. and Breakefield, Xandra O.: A defective HSV-1 vector expresses *Escherichia coli* β -galactosidase in cultured peripheral neurons. p1667 23 Sep 1988.

Gerin, John L. See Korba, Brent E.
Germann, Markus W. See van de Sande, Johan H.
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Glass, N. Louise; Vollmer, Steven J.; Staben, Chuck; Grotelueschen, Jeff; Metzenberg, Robert L.; Yanofsky, Charles: DNAs of the two mating-type alleles of *Neurospora crassa* are highly dissimilar. p570 29 July 1988.

Glenn, Evelyn Nakano: review of *Caring by the Hour*, by Karen Brodtkin Sacks. p232 8 July 1988.

Godowski, Paul J.; Picard, Didier; Yamamoto, Keith R.: Signal transduction and transcriptional regulation by glucocorticoid receptor-LexA fusion proteins. p812 12 Aug 1988.
Goebel, Mark G.; Yochem, John; Jentsch, Stefan; McGrath, John P.; Varshavsky, Alexander; Byers, Breck: The yeast cell cycle gene *CDC34* encodes a ubiquitin-conjugating enzyme. p1331 9 Sep 1988.

Golde, David W. See Koyanagi, Yoshio.
Golde, T. E. See Palmert, M. R.
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Goldwasser, Edwin L.: Good science (letter). p147 8 July 1988.
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Gorsky, Jay: Marijuana test: no ibuprofen interference. p885 19 Aug 1988.
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Gradstein, F. M.; Agterberg, F. P.; Aubry, M-P.; Berggren, W. A.; Flynn, J. J.; Hewitt, R.; Kent, D. V.; Klitgord, K. D.; Miller, K. G.; Obradovitch, J.; Ogg, J. G.; Prothero, D. R.; Westerman, G. E. G.: Sea level history. p599 29 July 1988.

Graeme, Kimberlie A. See Komm, Barry S.
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Graham, N. See Barnett, T.
Gray, Patrick W. See Feng, Gen-sheng.
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Greene, C. H.; Wiebe, P. H.; Burczynski, J.; Youngbluth, M. J.: Acoustical detection of high-density krill demersal layers in the submarine canyons off Georges Bank. p359 15 July 1988.

Greene, Geoffrey L. See Komm, Barry S.
Greene, Harry W.: review of *Gray's Monitor Lizard*, by Walter Auffenberg. p1368 9 Sep 1988.

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Griffith, Robert: review of *Cold War on Campus*, by Lionel S. Lewis. p989 19 Aug 1988.
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 Gundlach, Andrew L.; Dodd, Peter R.; Grabara, Corinne S. G.; Watson, Wendy E. J.; Johnston, Graham A. R.; Harper, Peter A. W.; Dennis, Julie A.; Healy, Peter J.: Deficit of spinal cord glycine/strychnine receptors in inherited myoclonus of Poll Hereford calves. p1807 30 Sep 1988.
 Gussella, J. F. See Palmert, M. R.
 Guss, J. Mitchell; Merritt, Ethan A.; Phizackerley, R. Paul; Hedman, Brit; Murata, Mitsuo; Hodgson, Keith O.; Freeman, Hans C.: Phase determination by multiple-wavelength x-ray diffraction: crystal structure of a basic "blue" copper protein from cucumbers. p806 12 Aug 1988.
 Gutman, Delia and Goldenberg, Carlos J.: Virus-specific splicing inhibitor in extracts from cells infected with HIV-1. p1492 16 Sep 1988.

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Haberland, Margaret E.; Fong, Dora; Cheng, Lorna: Malondialdehyde-altered protein occurs in atheroma of Watanabe heritable hyperlipidemic rabbits. p215 8 July 1988.
 Hacker, Miles P. See Kelley, Susan L.
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 Hafner, Donald L.: review of *Innovation and the Arms Race*, by Matthew Evangelista. p1106 26 Aug 1988.
 Halbert, T. R. See Bino, A.
 Haldar, P.; Chen, K.; Maheswaran, B.; Roig-Janicki, A.; Jaggi, N. K.; Markiewicz, R. S.; Giessen, B. C.: Bulk superconductivity at 122 K in $\text{Ti}(\text{Ba}, \text{Ca})_2\text{C}_3\text{Cu}_4\text{O}_{10.5+8}$ with four consecutive copper layers. p1198 2 Sep 1988.
 Hall, Charles A. S. See Detwiler, R. P.
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 Hamm, Heidi E.; Deretic, Dusanka; Arendt, Anatol; Hargrave, Paul A.; Koenig, Bernd; Hofmann, Klaus P.: Site of G protein binding to rhodopsin mapped with synthetic peptides from the α subunit. p832 12 Aug 1988.
 Hamner, William M. See Wolanski, Eric.
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 ———; Hardenbol, Jan; Vail, Peter R.: Sea level history (technical comment). p601 29 July 1988.
 Haq, Bilal U.; Vail, Peter R.; Hardenbol, Jan; van Wagoner, J. C. Sea level history. p596 29 July 1988.
 Harbour, J. William; Lai, Shinn-Liang; Whang-Peng, Jacqueline; Gazdar, Adi F.; Minna, John D.; Kaye, Frederic J.: Abnormalities in structure and expression of the human retinoblastoma gene in SCLC. p353 15 July 1988.
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 Harding, Robert S. O.: review of *Primate Social Systems*, by Robin I. M. Dunbar. p605 29 July 1988.
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 Haseman, J. K.; Margolin, B. H.; Shelby, M. D.; Zeiger, E.; Tennant, R. W.: Do short-term tests predict rodent carcinogenicity? (technical comment). p1233 2 Sep 1988.

Hatsopoulos, George N.; Krugman, Paul R.; Summers, Lawrence H.: U.S. competitiveness: beyond the trade deficit. p299 15 July 1988.
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 Henderson, L. E.; Sowder, R. C.; Copeland, T. D.; Benveniste, R. E.; Oroszlan, S.: Isolation and characterization of a novel protein (X-ORF product) from SIV and HIV-2. p199 8 July 1988.
 Henry, Earl Webb and Sidman, Richard L.: Long lives for homozygous trembler mutant mice despite virtual absence of peripheral nerve myelin. p344 15 July 1988.
 Hentze, Matthias W. See Rouault, Tracey A.
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 Hess, Benno. See Foerster, Petra.
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 Hiddinga, H. J.; Crum, C. Jessen; Hu, Jie; Roth, D. A.: Viroid-induced phosphorylation of a host protein related to a dsRNA-dependent protein kinase. p451 22 July 1988.
 Hill, David L. and Przekop, Peter R., Jr.: Influences of dietary sodium on functional taste receptor development: a sensitive period. p1826 30 Sep 1988.
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 Hinkle, Kenneth H.; Keady, John J.; Bernath, Peter F.: Detection of C_3 in the circumstellar shell of IRC+10216. p1319 9 Sep 1988.
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 Honoré, Tage; Davies, Steve N.; Drejer, Jørgen; Fletcher, Elizabeth J.; Jacobsen, Poul; Lodge, David; Nielsen, Flemming E.: Quinoxalinediones: potent competitive non-NMDA glutamate receptor antagonists. p701 5 Aug 1988.
 Hood, Leroy. See Clark, Steven M. See also Landegren, Ulf. See also Párraga, Grace.
 Hoover, Richard B. See Walker, Arthur B. C., Jr.
 Hopfenberg, Harold B.; Witchey, Leonore C.; Poinar, George O., Jr.: Is the air in amber ancient? (technical comment). p717 5 Aug 1988.

Hopfield, J. J.; Onuchic, José Nelson; Beratan, David N.: A molecular shift register based on electron transfer. p817 12 Aug 1988.
 Horibe, Y. and Craig, H.: Is the air in amber ancient? (technical comment). p720 5 Aug 1988.
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 Htun, Han and Dahlberg, James E.: Single strands, triple strands, and kinks in H-DNA. p1791 30 Sep 1988.
 Hu, B. L.: review of *Quantum Field Theory and Quantum Statistics*, edited by E. S. Fradkin, I. A. Batalin, C. J. Isham, and G. A. Vilkovisky. p855 12 Aug 1988.
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 Janda, Kim D.; Schloeder, Diane; Benkovic, Stephen J.; Lerner, Richard A.: Induction of an antibody that catalyzes the hydrolysis of an amide bond. p1188 2 Sep 1988.
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 Jenkins, Marc K.; Schwartz, Ronald H.; Pardoll, Drew M.: Effects of cyclosporine A on T cell development and clonal deletion. p1655 23 Sep 1988.
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 Johnston, Brian H.: The S1-sensitive form of

d(C-T)_n·d(A-G)_n: evidence for a three-strand-
ed structure in plasmids. p1800 30 Sep 1988.
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p1739 30 Sep 1988.
Jones, Daniel P.: review of *Academic Scientists and
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p852 12 Aug 1988.
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eration*, edited by John Simpson, and *Without
the Bomb*, by Mitchell Reiss. p988 19 Aug
1988.
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ard; Jessell, Thomas M.: Molecular character-
ization of a functional cDNA encoding the
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Escherichia coli aspartate transcarbamylase: the
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Katsuki, Motoya; Sato, Masahiro; Kimura, Min-
oru; Yokoyama, Minesuke; Kobayashi, Kimio;
Nomura, Tatsuji: Conversion of normal behav-
ior to shiverer by myelin basic protein antisense
cDNA in transgenic mice. p593 29 July 1988.
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namic instability of sheared microtubules ob-
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Keepin, Bill and Kats, Gregory: Global warning
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position of the Gulf Stream during Quaternary
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Kelley, Susan L.; Basu, Alakananda; Teicher,
Beverly A.; Hacker, Miles P.; Hamer, Dean H.;
Lazo, John S.: Overexpression of metallothio-
nein confers resistance to anticancer drugs.
p1813 30 Sep 1988.
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—; Rylatt, Dennis B.; Bundesen, Peter G.;
Doherty, Richard R.; McPhee, Dale A.; Staple-
ton, David; Cottis, Louise E.; Wilson, Kim;
John, Michele A.; Khan, Julie M.; Dinh, Den-
ise P.; Miles, Stephen; Hillyard, Carmel J.:
Autologous red cell agglutination assay for
HIV-1 antibodies: simplified test with whole
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Modest M.; Wagner, Al; Eastman, Dean E.:
Future beam-controlled processing technolo-
gies for microelectronics. p936 19 Aug 1988.

Kerr, Richard A. (news): ... And in the labora-
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Khan, Akbar S. and Roe, Bruce A.: Aminoacyla-
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Requirement for glycine in activation of
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Klein, Lawrence R.: Components of competitive-
ness. p308 15 July 1988.
Klein, Peter S.; Sun, Tzeli J.; Saxe, Charles L.,
III; Kimmel, Alan R.; Johnson, Ronald L.;
Devreotes, Peter N.: A chemoattractant recep-
tor controls development in *Dictyostelium dis-
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Gail; Maue, Robert A.; Kado, Raymond T.;
Jaffe, Laurinda A.: Fertilization events induced
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in *Xenopus* eggs. p464 22 July 1988.
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Komm, Barry S.; Terpening, Christopher M.;
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gos, Alfred; Korc, Murray; Greene, Geoffrey
L.; O'Malley, Bert W.; Haussler, Mark R.:
Estrogen binding, receptor mRNA, and bio-
logic response in osteoblast-like osteosarcoma
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Conferring operator specificity on restriction
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Mitogen-induced replication of woodchuck
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Observer*. p1141 2 Sep 1988. Economic arte-
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Qi; Golde, David W.; Gasson, Judith C.; Chen,
Irvin S. Y.: Cytokines alter production of HIV-
1 from primary mononuclear phagocytes.
p1673 23 Sep 1988.
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George: Role of the glutathione redox cycle in
acquired and de novo multidrug resistance.
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- Lee, Eva Y.-H. P.; To, Hoang; Shew, Jin-Yuh; Bookstein, Robert; Scully, Peter; Lee, Wen-Hwa: Inactivation of the retinoblastoma susceptibility gene in human breast cancers. p218 8 July 1988.
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- Lee, Te-Chang; Tanaka, Norihiro; Lamb, Patricia W.; Gilmer, Tona M.; Barrett, J. Carl: Induction of gene amplification by arsenic. p79 1 July 1988.
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- Masters, Susan B.; Sullivan, Kathleen A.; Miller, R. Tyler; Beiderman, Barry; Lopez, Ninfá G.; Ramachandran, J.; Bourne, Henry R.: Carboxyl terminal domain of G_{sα} specifies coupling of receptors to stimulation of adenylyl cyclase. p448 22 July 1988.
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- McDougall, Skye; Peterson, Craig L.; Calame, Kathryn: A transcriptional enhancer 3' of C_{B2} in the T cell receptor β locus. p205 8 July 1988.
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- Murphy, D. W.; Johnson, D. W., Jr.; Jin, S.; Howard, R. E.: Processing techniques for the 93 K superconductor Ba₂YCu₃O₇. p922 19 Aug 1988.
- Murray, Michael G.; Bradley, Jonathan; Yang, Xiao-Feng; Wimmer, Eckard; Moss, Eric G.; Racaniello, Vincent R.: Poliovirus host range is determined by a short amino acid sequence in neutralization antigenic site I. p213 8 July 1988.
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- Palmer, M. R.; Golde, T. E.; Cohen, M. L.; Kovacs, D. M.; Tanzi, R. E.; Gusella, J. F.; Usiak, M. F.; Younkin, L. H.; Younkin, S. G.: Amyloid protein precursor messenger RNAs: differential expression in Alzheimer's disease. p1080 26 Aug 1988.
- Pan, Zhen-Qiang and Prives, Carol: Assembly of functional U1 and U2 human-amphibian hybrid snRNPs in *Xenopus laevis* oocytes. p1328 9 Sep 1988.
- Panganiban, Antonito T. and Fiore, Diccon: Ordered interstrand and intrastrand DNA transfer during reverse transcription. p1064 26 Aug 1988.
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chael J.; Werb, Zena: Wound macrophages
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William J.; Majzoub, Joseph A.: Vasopressin
mRNA in the suprachiasmatic nuclei: daily
regulation of polyadenylate tail length. p342 15
July 1988.
Rock, Brian. See Donahue, Robert E.
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chael W.
Rogan, Walter J.; Gladen, Beth C.; Hung, Kun-
Long; Koong, Shin-Lan; Shih, Ling-Yu; Tay-
lor, James S.; Wu, Ying-Chin; Yang, Dorothy;
Ragan, N. Beth; Hsu, Chen-Chin: Congenital
poisoning by polychlorinated biphenyls and
their contaminants in Taiwan. p334 15 July
1988.
Roig-Janicki, A. See Haldar, P.
Role, Lorna W.: review of *Fidia Research Founda-
tion Neuroscience Award Lectures*, by Alfred G.
Gilman, Erwin Neher, Tomas Hökfelt, Joseph
B. Martin, and Viktor Hamburger. p1238 2
Sep 1988.
Rood, Stewart B.; Buzzell, Richard I.; Mander,
Lewis N.; Pearce, David; Pharis, Richard P.:
Gibberellins: a phytohormonal basis for hetero-
sis in maize. p1216 2 Sep 1988.
Roof, Dorothy J. and Heth, Cynthia A.: Expres-
sion of transducin in retinal rod photoreceptor
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Rosen, Paul A. and Lissauer, Jack J.: The Titan
1:0 nodal bending wave in Saturn's ring C.
p690 5 Aug 1988.
Rosenstein, Jeffrey M.: Absence of a blood-brain
barrier within transplanted brain tissue? (tech-
nical comment). p473 22 July 1988.
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med H.: Femtosecond clocking of the chemical
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Roth, D. A. See Hiddinga, H. J.
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Roth, Matthew E.; Lacy, Michael J.; McNeil,
Leslie Klis; Kranz, David M.: Selection of
variable-joining region combinations in the α
chain of the T cell receptor. p1354 9 Sep 1988.
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Luca, Michael A.: Symmetrical erosive periph-
eral polyarthritis in the Late Archaic Period of
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Rouault, Tracey A.; Hentze, Matthias W.;
Caughman, S. Wright; Harford, Joe B.;
Klausner, Richard D.: Binding of a cytosolic
protein to the iron-responsive element of hu-
man ferritin messenger RNA. p1207 2 Sep
1988.
Roughgarden, Jonathan; Gaines, Steven; Pos-
singham, Hugh: Recruitment dynamics in
complex life cycles. p1460 16 Sep 1988.
Ruben, Steven; Poteat, Harry; Tan, Tse-Hua;
Kawakami, Kyoshi; Roeder, Robert; Hasel-
tine, William; Rosen, Craig A.: Cellular tran-
scription factors and regulation of IL-2 recep-
tor gene expression by HTLV-I *tax* gene prod-
uct. p89 1 July 1988.
Rubery, Philip H. See Jacobs, Mark.
Ruiz-Opazo, Nelson. See Herrera, Victoria L. M.
Rumsey, William L.; Vanderkooi, Jane M.; Wil-
son, David F.: Imaging of phosphorescence: a
novel method for measuring oxygen distribu-
tion in perfused tissue. p1632 23 Sep 1988.
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Samelson, Franz: review of *Psychology in Twenti-
eth-Century Thought and Society*, edited by
Mitchell G. Ash and William R. Woodward.
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Lawrence Scheinman. p363 15 July 1988.
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it again (AAAS). p725 5 Aug 1988.
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man, Ellen M.; Moore, Deborah K.; Boehnke,
Michael; Bryant, Eileen M.; Lampe, Thomas
H.; Nochlin, David; Sumi, Shuzo M.; Deeb,
Samir S.; Beyreuther, Konrad; Martin, George
M.: Absence of linkage of chromosome 21q21
markers to familial Alzheimer's disease. p1507
16 Sep 1988.
Schna, Mark and Yamamoto, Keith R.: Mam-
malian glucocorticoid receptor derivatives enhance
transcription in yeast. p965 19 Aug 1988.
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Scheuer, Todd. See Vassilev, Peter M.
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Schleif, Robert: DNA binding by proteins.
p1182 2 Sep 1988.
Schloeder, Diane. See Janda, Kim D.
Schneider, Andre; Hemphill, Andrew; Wyler,
Toni; Seebeck, Thomas: Large microtubule-
associated protein of *T. brucei* has tandemly
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Curt Meine. p1237 2 Sep 1988.
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Schubert, David; Schroeder, Rolly; LaCorbiere,
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loid β protein precursor is possibly a heparan

- sulfate proteoglycan core protein. p223 8 July 1988.
- Schultz, Richard. *See* Rappolee, Daniel A. (p1823).
- Schulz, James H.: review of *Issues in Contemporary Retirement*, edited by Rita Ricardo-Campbell and Edward P. Lazear. p1516 16 Sep 1988.
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- Segal, Michael M.: review of *Explorations in Parallel Distributed Processing*, by James L. McClelland and David E. Rumelhart. p1107 26 Aug 1988.
- Segall, Anca; Mahan, Michael J.; Roth, John R.: Rearrangement of the bacterial chromosome: forbidden inversions. p1314 9 Sep 1988.
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- Sepkoski, J. J., Jr. *See* Raup, David M.
- Sercarz, Eli: review of *Anti-Idiotypes, Receptors, and Molecular Mimicry*, edited by D. Scott Linthicum and Nadir R. Farid. p852 12 Aug 1988.
- Shapiro, Stuart L. and Teukolsky, Saul A.: Building black holes: supercomputer cinema. p421 22 July 1988.
- Sharp, Alan H. *See* Ellis, Steven B.
- Sharp, Phillip A. *See* Staudt, Louis M.
- Shaw, Jeng-Pyng; Utz, Paul J.; Durand, David B.; Toole, J. Jay; Emmel, Elizabeth Ann; Crabtree, Gerald R.: Identification of a putative regulator of early T cell activation genes. p202 8 July 1988.
- Shelby, M. D. *See* Haseman, J. K.
- Shepard, H. Michael. *See* Feng, Gen-sheng.
- Sheppard, Paul R. *See* Jacoby, Gordon C., Jr.
- Shervais, John W.: review of *Mantle Xenoliths*, edited by Peter H. Nixon. p366 15 July 1988.
- Shew, Jin-Yuh. *See* Lee, Eva Y.-H. P.
- Shieh, B.-H. *See* Potempa, J.
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- Shih, Ling-Yu. *See* Rogan, Walter J.
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- Sidman, Richard L. *See* Henry, Earl Webb.
- Sieh, Kerry E. *See* Jacoby, Gordon C., Jr.
- Simoncini, Luciana. *See* Kline, Douglas.
- Sims, John E.; March, Carl J.; Cosman, David; Widmer, Michael B.; MacDonald, H. Robson; McMahan, Catherine J.; Grubin, Catherine E.; Wignall, Janis M.; Jackson, Jana L.; Call, Susan M.; Friend, Della; Alpert, Alan R.; Gillis, Steven; Urdal, David L.; Dower, Steven K.: cDNA expression cloning of the IL-1 receptor, a member of the immunoglobulin superfamily. p585 29 July 1988.
- Singh, Harinder. *See* Staudt, Louis M.
- Slanger, T. G.; Jusinski, L. E.; Black, G.; Gadd, G. E.: A new laboratory source of ozone and its potential atmospheric implications. p945 19 Aug 1988.
- Slater, Emily P. *See* Akerblom, Ingrid E.
- Slawewicki, Richard A. *See* Wing, Keith D.
- Sleight, A. W. *See* Gao, Yan.
- Sloss, L. L.: review of *New Perspectives in Basin Analysis*, edited by K. L. Kleinspehn and C. Paolo. p1839 30 Sep 1988.
- Slutsky, L. J. *See* Brown, J. M.
- Smith, F. H. *See* Wolpoff, M. H.
- Smith, Stephen V. *See* Chave, Keith E.
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- Smuts, Barbara: Dolphin research (letter). p400 22 July 1988.
- Snell, Hilary E. *See* Frederick, John E.
- Snyder, Gary J. *See* Peters, Kevin S.
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- Somerville, Chris. *See* Bleecker, Anthony B.
- Sonenberg, Nahum. *See* Trono, Didier.
- Sowder, R. C. *See* Henderson, L. E.
- Spangrude, Gerald J.; Heimfeld, Shelly; Weissman, Irving L.: Purification and characterization of mouse hematopoietic stem cells. p58 1 July 1988.
- Sparkes, Robert S. *See* Holm, Cecilia.
- Spector, David: Biological systems (letter). p639 5 Aug 1988.
- Spelsberg, Thomas C. *See* Eriksen, Erik F.
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- Spring, Jeffrey H.; Morgan, Anne M.; Hazelton, Shelia R.: A novel target for antidiuretic hormone in insects. p1096 26 Aug 1988.
- Spuhler, J. N. *See* Wolpoff, M. H.
- Squires, Steven W. *See* Jankowski, David G.
- Staben, Chuck. *See* Glass, N. Louise.
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- Stanley, Julian C.: Mathematics achievement (letter). p1414 16 Sep 1988.
- Stapleton, David. *See* Kemp, Bruce E.
- Staudt, Louis M.; Clerc, Roger G.; Singh, Harinder; LeBowitz, Jonathan H.; Sharp, Phillip A.; Baltimore, David: Cloning of a lymphoid-specific cDNA encoding a protein binding the regulatory octamer DNA motif. p577 29 July 1988.
- Stein, Monica E. *See* Waneck, Gerald L.
- Stelzer, Armin; Kay, Alan R.; Wong, Robert K. S.: GABA_A-receptor function in hippocampal cells is maintained by phosphorylation factors. p339 15 July 1988.
- Stevens, Peter F. *See* O'Hara, Robert J.
- Stiefel, E. I. *See* Bino, A.
- Stigler, Stephen M. and Wagner, Melissa J.: Testing for periodicity of extinction (technical comment). p96 1 July 1988.
- Stiles, C. D. *See* Mercola, M.
- Stothers, Richard B. *See* Rampino, Michael R.
- Strebel, Klaus; Klimkait, Thomas; Martin, Malcolm A.: A novel gene of HIV-1, *vpu*, and its 16-kilodalton product. p1221 2 Sep 1988.
- Strickland, Sidney; Huarte, Joaquin; Belin, Dominique; Vassalli, Anne; Rickles, Richard J.; Vassalli, Jean-Dominique: Antisense RNA directed against the 3' noncoding region prevents dormant mRNA activation in mouse oocytes. p680 5 Aug 1988.
- Stringer, Chris and Andrews, Peter: Modern human origins (letter). p773 12 Aug 1988.
- Subramanian, M. A. *See* Gao, Yan.
- Suh, Se Won. *See* Chapman, Michael S.
- Sullivan, Kathleen A. *See* Masters, Susan B.
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- Sun, Marjorie (news): A biotech enterprise Soviet style. p1154 2 Sep 1988. China launch gets nod. p1427 16 Sep 1988. Environmental awakening in the soviet union. p1033 26 Aug 1988. EPA proposes state action on aldcarb. p22 1 July 1988. Human frontier. p784 12 Aug 1988. Japan prodded on the environment. p284 15 July 1988. Journals no longer censored. p1154 2 Sep 1988. A minor identity crisis. p1155 2 Sep 1988. NIH budget boost mostly for AIDS. p1427 16 Sep 1988. NSF and Antarctic wastes. p897 19 Aug 1988. Report calls for revamping of EPA research. p1596 23 Sep 1988. Soviet biotechnology meets glasnost. p781 12 Aug 1988. U.S.-Japan science pact signed. p17 1 July 1988.
- Sun, Tzeli J. *See* Klein, Peter S.
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- Sutcliffe, W. G.: Limits on nuclear materials for arms reduction: complexities and uncertainties. p1166 2 Sep 1988.
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- Taga, Tetsuya. *See* Yamasaki, Katsuhiko.
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- Tax, Sol: Hunter-gatherers and humane living (letter). p149 8 July 1988.
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- Taylor, Milton W. *See* Feng, Gen-sheng.
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- Terpening, Christopher M. *See* Komm, Barry S.
- Teukolsky, Saul A. *See* Shapiro, Stuart L.
- Theopold, Klaus H. *See* Byrne, Erin K.
- Thomas, Gary; Thorne, Barbara A.; Thomas, Laurel; Allen, Richard G.; Hraby, Dennis E.; Fuller, Robert; Thorner, Jeremy: Yeast KEX2 endopeptidase correctly cleaves a neuroendocrine prohormone in mammalian cells. p226 8 July 1988.
- Thomas, George H. *See* Davis, Lisa M.
- Thomas, Gilles. *See* Law, David J.
- Thomas, Laurel. *See* Thomas, Gary.
- Thompson, John A.; Anderson, Kathryn D.; DiPietro, Judith M.; Zwiebel, James A.; Zammetta, Massimo; Anderson, W. French; Maciag, Thomas: Site-directed neovessel formation in vivo. p1349 9 Sep 1988.
- Thorne, Barbara A. *See* Thomas, Gary.
- Thorner, Jeremy. *See* Thomas, Gary.
- Tjian, Robert. *See* Bell, Stephen P.
- To, Hoang. *See* Lee, Eva Y.-H. P.
- Tomasetto, C. *See* Rio, M. C.
- Toole, J. Jay. *See* Shaw, Jeng-Pyng.
- Toomre, Alar: review of *Dynamical Evolution of Globular Clusters*, by Lyman Spitzer, Jr. p1693 23 Sep 1988.
- Travis, J. *See* Potempa, J.
- Treiman, Sam: review of *Symmetries, Asymmetries, and the World of Particles*, by T. D. Lee, and *Thirty Years Since Parity Nonconservation*, edited by Robert Novick. p732 5 Aug 1988.
- Tripputi, Pasquale; Guérin, Sylvain L.; Moore, David D.: Two mechanisms for the extinction of gene expression in hybrid cells. p1205 2 Sep 1988.
- Trivelpiece, Alvin W. (editorials): Influencing Congress: ten commandments. p141 8 July 1988. Science and technology awards. p1025 26 Aug 1988. The science vote in Iowa. p513 29 July 1988.
- Trono, Didier; Pelletier, Jerry; Sonenberg, Nahum; Baltimore, David: Translation in mammalian cells of a gene linked to the poliovirus 5' noncoding region. p445 22 July 1988.
- Turner, Katherine. *See* Donahue, Robert E.
- Turner, Kenneth R. *See* Rothschild, Bruce M.
- Turro, Nicholas J. *See* Parugganan, Michael D.
- Tytell, Michael. *See* Barbe, Mary F.
- Uchupi, Elazar: review of *The Atlantic Continental Margin: U.S.*, edited by Robert E. Sheridan and John A. Grow. p1693 23 Sep 1988.
- Umberson, Debra. *See* House, James S.
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- Usiak, M. F. *See* Palmert, M. R.
- Utz, Paul J. *See* Shaw, Jeng-Pyng.
- Vaida, M.; Shimon, L. J. W.; Weisinger-Lewin,

Y.; Frolow, F.; Lahav, M.; Leiserowitz, L.; McMullan, R. K.: The structure and symmetry of crystalline solid solutions: a general revision. p1475 16 Sep 1988.

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— and Haq, Bilal U.: Sea level history. p599 29 July 1988.

van de Sande, Johan H.; Ramsing, Niels B.; Germann, Markus W.; Elhorst, Wim; Kalisch, Bernd W.; Kitzing, Eberhard v[on]; Pon, Richard T.; Clegg, Robert C.; Jovin, Thomas M.: Parallel stranded DNA. p551 29 July 1988.

van der Velden-de Munck, Jacqueline. See Claas, Frans H. J.

Van Dyke, Michael W.; Roeder, Robert G.; Sawadogo, Michèle: Physical analysis of transcription preinitiation complex assembly on a class II gene promoter. p1335 9 Sep 1988.

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Vassalli, Jean-Dominique. See Strickland, Sidney.

Vassilev, Peter M.; Scheuer, Todd; Catterall, William A.: Identification of an intracellular peptide segment involved in sodium channel inactivation. p1658 23 Sep 1988.

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Verner, Keith and Schatz, Gottfried: Protein translocation across membranes. p1307 9 Sep 1988.

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W

Wachter, Kenneth W.: Disturbed by meta-analysis? p1407 16 Sep 1988.

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Wahl, Matthew I.; Daniel, Thomas O.; Carpenter, Graham: Antiphosphotyrosine recovery of phospholipase C activity after EGF treatment of A-431 cells. p968 19 Aug 1988.

Waldrop, M. Mitchell (news): A bad week for Soviet space flight. p1425 16 Sep 1988. The farthest galaxies: a new champion. p905 19 Aug 1988. National Academy looks at computing's future. p1436 16 Sep 1988. Sagdeev to step down. p528 29 July 1988. Secrets of an unremarkable star. p790 12 Aug 1988. Seeing all there is to see in the universe. p418 22 July 1988. Soar: a unified theory of cognition? p296 15 July 1988. Space science looks to the future-cautiously. p162 8 July 1988. Taking back the night. p1288 9 Sep 1988. The Shroud of Turin: an answer is at hand. p1750 30 Sep 1988. Toward a unified theory of cognition. p27 1 July 1988. NASA delays space telescope (letter). p1277 9 Sep 1988.

Walker, Arthur B. C., Jr.; Barbee, Troy W., Jr.; Hoover, Richard B.; Lindbloom, Joakim F.: Soft x-ray images of the solar corona with a normal-incidence Cassegrain multilayer telescope. p1781 30 Sep 1988.

Wallace, B. A. and Ravikumar, K.: The gramicidin pore: crystal structure of a cesium complex. p182 8 July 1988.

Walsh, C. and Cepko, C. L.: Clonally related cortical cells show several migration patterns. p1342 9 Sep 1988.

Walsh, John (news): Nonprofits could face a taxing time. p896 19 Aug 1988. NSB ponders science policy role. p1035 26 Aug 1988. OTA backs grassroots strategy for Africa. p1597 23 Sep 1988. Pay cap for grantees has up side for NSF. p1159 2 Sep 1988.

Waneck, Gerald L.; Stein, Monica E.; Flavell, Richard A.: Conversion of a PI-anchored protein to an integral membrane protein by a single amino acid mutation. p697 5 Aug 1988.

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Washburn, Deborah: review of *The Earth's Fragile Systems*, edited by Thorkil Kristensen and Johan Peter Paludan. p1519 16 Sep 1988.

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Watson, Wendy E. J. See Gundlach, Andrew L.

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Webb, Paul W.: review of *Axis and Circumference*, by Stephen A. Wainwright. p105 1 July 1988.

Weinert, Ted A. and Hartwell, Leland H.: The *RAD9* gene controls the cell cycle response to DNA damage in *Saccharomyces cerevisiae*. p317 15 July 1988.

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Weisinger-Lewin, Y. See Vaida, M.

Weisman, Lois S. and Wickner, William: Intervacuole exchange in the yeast zygote: a new pathway in organelle communication. p589 29 July 1988.

Weiss, John H. and Choi, Dennis W.: Beta-N-methylamino-L-alanine neurotoxicity: requirement for bicarbonate as a cofactor. p973 19 Aug 1988.

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White, Alice E. and Short, K. T.: Synthesis of buried oxide and silicide layers with ion beams. p930 19 Aug 1988.

White, Edward L.: Psychoanalysis (letter). p275 15 July 1988.

White, James H.; Cozzarelli, Nicholas R.; Bauer, William R.: Helical repeat and linking number of surface-wrapped DNA. p323 15 July 1988.

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Widnall, Sheila E.: AAAS presidential lecture: voices from the pipeline. p1740 30 Sep 1988.

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Wignall, Janis M. See Sims, John E.

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Wilson, David F. See Rumsey, William L.

Wilson, Kim. See Kemp, Bruce E.

Wimmer, Eckard. See Murray, Michael G.

Wing, Keith D.: RH 5849, a nonsteroidal ecdysone agonist: effects on a *Drosophila* cell line. p467 22 July 1988.

—; Slawewski, Richard A.; Carlson, Glenn R. RH 5849, a nonsteroidal ecdysone agonist: effects on larval lepidoptera. p470 22 July 1988.

Wisdom, Jack. See Sussman, Gerald Jay.

Wise, Burton L.: Brain implants and behavioral changes (letter). p518 29 July 1988.

Wisio, Karin: Military funding of biological research (letter). p399 22 July 1988.

Wisniewski, Bernadine J.: Is *Science* "gender-blind"? (letter). p400 22 July 1988.

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Witherell, Michael S.: review of *Physics of Massive Neutrinos*, by Felix Boehm and Petr Vogel. p1108 26 Aug 1988.

Witkowski, Jan A.: review of *The Heritage of Experimental Embryology*, by Viktor Hamburger. p365 15 July 1988.

Wolanski, Eric and Hamner, William M.: Topographically controlled fronts in the ocean and their biological influence. p177 8 July 1988.

Wolffe, Alan P. and Brown, Donald D.: Developmental regulation of two 5S ribosomal RNA

genes. p1626 23 Sep 1988.

Wolfson, Betty. See Baldino, Frank, Jr.

Wolpoff, M. H.; Spuhler, J. N.; Smith, F. H.; Radović, J.; Pope, G.; Frayer, D. W.; Eckhardt, R.; Clark, G.: Modern human origins (letter). p772 12 Aug 1988.

Wong, Robert K. S. See Stelzer, Armin.

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Woodcock, Gordon R.: The national aerospace plane (letter). p518 29 July 1988.

Woodwell, George M.: The global carbon cycle (letter). p1736 30 Sep 1988.

Worster, Donald: review of *Pacific Visions*, by Michael L. Smith. p731 5 Aug 1988.

Wrather, Joan: AAAS and Apple Computer initiate project (AAAS). p100 1 July 1988.

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Y and Z

Yam, Kit L.; Anderson, Donald K.; Buxbaum, Robert E.: Diffusion of small solutes in polymer-containing solutions. p330 15 July 1988.

Yamamoto, Keith R. See Godowski, Paul J. See also Schena, Mark.

Yamasaki, Katsuhiko; Taga, Tetsuya; Hirata, Yuuichi; Yawata, Hideo; Kawanishi, Yoshikazu; Seed, Brian; Taniguchi, Tadatsugu; Hirano, Toshio; Kishimoto, Tadatsugu: Cloning and expression of the human interleukin-6 (BSF-2/IFN β 2) receptor. p825 12 Aug 1988.

Yancopoulos, George D. and Alt, Frederick W.: Reconstruction of an immune system. p1581 23 Sep 1988.

Yang, Dorothy. See Rogan, Walter J.

Yang, Xiao-Feng. See Murray, Michael G.

Yang, Yu-Chang. See Donahue, Robert E.

Yanofsky, Charles. See Glass, N. Louise.

Yatani, Atsuko; Hamm, Heidi; Codina, Juan; Mazzoni, Maria R.; Birnbaumer, Lutz; Brown, Arthur M.: A monoclonal antibody to the α subunit of G_k blocks muscarinic activation of atrial K^+ channels. p828 12 Aug 1988.

Yawata, Hideo. See Yamasaki, Katsuhiko.

Yochem, John. See Goebel, Mark G.

Yokoyama, Minesuke. See Katsuki, Motoya.

Young, Anne B.; Greenamyre, J. Timothy; Hollingsworth, Zane; Albin, Roger; D'Amato, Constance; Shoulson, Ira; Penney, John B.: NMDA receptor losses in putamen from patients with Huntington's disease. p981 19 Aug 1988.

Young, Elton T. See Párraga, Grace.

Young, John A.: Technology and competitiveness: a key to the economic future of the United States. p313 15 July 1988.

Young, Kenneth M.: review of *Principles of Plasma Diagnostics*, by I. H. Hutchinson. p732 5 Aug 1988.

Young, S. Stanley: Do short-term tests predict rodent carcinogenicity? (technical comment). p1232 2 Sep 1988.

Young, Stephen G.; Northey, Susan T.; McCarthy, Brian J.: Low plasma cholesterol levels caused by a short deletion in the apolipoprotein B gene. p591 29 July 1988.

Youngbluth, M. J. See Greene, C. H.

Younkin, L. H. See Palmert, M. R.

Younkin, S. G. See Palmert, M. R.

Zakher, Jehane. See Kramer, Robert A.

Zametta, Massimo. See Thompson, John A.

Zebiak, S. See Barnett, T.

Zeiger, E. See Haseman, J. K.

Zeitlin, Robert N.: review of *Ancient Chalcatzingo*, edited by David C. Grove. p103 1 July 1988.

Zewail, Ahmed H. See Rosker, Mark J.

Zhao, Jia Qi. See Koyanagi, Yoshio.

Zhou, Lei. See Kyte, Frank T.

Ziskin, Jay. See Faust, David. See also Faust, David.

Zwiebel, James A. See Thompson, John A.