

---

---

# SCIENCE

## Author Index to Volume 217

## July–September 1982

**Editorial Board**

FREDERICK R. BLATTNER	BRYANT W. ROSSITER
BERNARD F. BURKE	VERA C. RUBIN
CHARLES L. DRAKE	MILTON RUSSELL
WILLIAM ESTES	MAXINE F. SINGER
ARTHUR F. FINDEIS	WILLIAM P. SLICHTER
E. PETER GEIDUSCHEK	PAUL E. WAGGONER
GLYNN ISAAC	JOHN WOOD
CLEMENT L. MARKERT	ALEXANDER ZUCKER
JOHN R. PIERCE	

WILLIAM D. CAREY  
*Publisher*

HANS NUSSBAUM  
*Business Manager*

PHILIP H. ABELSON  
*Editor*

EARL J. SCHERAGO, *Advertising Director*

Published by the

American Association for the Advancement of Science

1515 Massachusetts Avenue, NW, Washington, D.C. 20005

Printed in Richmond, Virginia, by William Byrd Press

Copyright 1982 by the American Association for the Advancement of Science

---

---

**A**

- Abelson, John. *See* Branch, Andrea D.  
 Abelson, Philip H. (editorials): Applied biology in developing countries. v217 p889 3 Sep 82. Astronomy and astrophysics in the United States. v217 p691 20 Aug 82. *Chemical Abstracts* after 75 years. v217 p7 2 July 82. Differing values in academia and industry. v217 p1095 17 Sep 82. Energy for Western Europe. v217 p309 23 July 82. Long-term changes in the chemical industry. v217 p489 6 Aug 82.  
 Abramov, Israel; Gordon, James; Hendrickson, Anita; Hainline, Louise; Dobson, Velma; LaBossiere, Eileen: The retina of the newborn human infant. v217 p265-267 16 July 82.  
 Ackerman, Sigurd H.: Ontogeny of gastric acid secretion in the rat: evidence for multiple response systems. v217 p75-77 2 July 82.  
 Adler, E. M.; Fluk, L. J.; Mullin, J. M.; Klein-zeller, A.: Anomalous patterns in cultured cell monolayers. v217 p851-853 27 Aug 82.  
 Agee, James K.: review of *Fire Ecology*, by Henry A. Wright and Arthur W. Bailey. v217 p1244 24 Sep 82.  
 Ahlen, S. P.; Tarle, G.; Price, P. B.: Studies of relativistic uranium nuclei with dielectric track detectors. v217 p1139-1140 17 Sep 82.  
 Ahn, H.; Prichep, L.; John, E. R.: Electroencephalogram tests for brain dysfunction: a question of validity (technical comment). v217 p82 2 July 82.  
 Akabas, Myles H. *See* Cohen, Fredric S.  
 Albrecht, P. *See* Chappe, B.  
 Albright, David: Nuclear proliferation (letter). v217 p1082 17 Sep 82.  
 Allan, Robert E. *See* Oldenstadt, Dennis L.  
 Alonso, J. R.; Avery, R. T.; Elioff, T.; Force, R. J.; Grunder, H. A.; Lancaster, H. D.; Lofgren, E. J.; Meneghetti, J. R.; Selph, F. B.; Stevenson, R. R.; Yourd, R. B.: Acceleration of uranium at the Bevalac. v217 p1135-1137 17 Sep 82.  
 Alter, Barbara J. *See* Kahan, Brenda.  
 Altmann, Jeanne. *See* Hausfater, Glenn.  
 Altmann, Stuart. *See* Hausfater, Glenn.  
 Ameenuddin, Syed; Sunde, Milton; DeLuca, Hector F.; Ikekawa, Nobuo; Kobayashi, Yoshiro: 24-Hydroxylation of 25-hydroxyvitamin D<sub>3</sub>: is it required for embryonic development in chicks? v217 p451-452 30 July 82.  
 Amherdt, Mylene. *See* Patel, Yogesh C.

- Anderson, D. L. *See* Raleigh, C. B.  
 Archer, Steven M.; Dubin, Mark W.; Stark, Louisa A.: Abnormal development of kitten retino-geniculate connectivity in the absence of action potentials. v217 p743-745 20 Aug 82.  
 Arendash, Gary W. and Gorski, Roger A.: Enhancement of sexual behavior in female rats by neonatal transplantation of brain tissues from males. v217 p1276-1277 24 Sep 82.  
 Arnold, Michael. *See* Carr, Daniel B.  
 Aso, Yoichi. *See* Hopkins, Theodore L.  
 Auerbach, Robert. *See* Kahan, Brenda.  
 Auerbach, Stanley I. *See* Trabalka, John R.  
 Avery, R. T. *See* Alonso, J. R.

**B**

- Bach, Fritz H. *See* Kahan, Brenda.  
 Bada, Jeffrey L. and Finkel, Robert: Uranium series ages of the Del Mar man and Sunnyvale skeletons (technical comment). v217 p755 20 Aug 82.  
 Badger, T. M. *See* Millard, W. J.  
 Baker, Elizabeth. *See* Sutherland, Grant R.  
 Bakke, J. E.; Bergman, A. L.; Larsen, G. L.: Metabolism of 2,4',5-trichlorobiphenyl by the mercapturic acid pathway. v217 p645-647 13 Aug 82.  
 Bakker, Robert T.: Juvenile-adult habitat shift in Permian fossil reptiles and amphibians. v217 p53-55 2 July 82.  
 Baldwin, Ian T. *See* Schultz, Jack C.  
 Balick, Bruce: review of *Extragalactic Radio Sources*, edited by David S. Heeschen and Campbell M. Wade. v217 p1030 10 Sep 82.  
 Balk, Melvin W. *See* Foster, Henry L.  
 Balsam, William L.: Carbonate dissolution and sedimentation on the Mid-Atlantic continental margin. v217 p929-931 3 Sep 82.  
 Bang, F. B. *See* Kulemann-Kloene, H.  
 Barber, Ann. *See* Campbell, Carlos C.  
 Barbin, Gilles. *See* Nieto-Sampedro, M.  
 Bartus, Raymond T.; Dean, Reginald L., III; Beer, Bernard; Lippa, Arnold S.: The cholinergic hypothesis of geriatric memory dysfunction. v217 p408-417 30 July 82.  
 Bashan, N. *See* Gahl, W. A.  
 Beebe, David C. *See* Zelenka, Peggy S.  
 Beer, Bernard. *See* Bartus, Raymond T.  
 Beer, John J.: review of *A Century of Chemical Engineering*, edited by William F. Furter. v217 p723 20 Aug 82.

- Bellomo, Giorgio. *See* Jewell, Sarah A.  
 Bennett, Albert F. *See* Schall, Jos. J.  
 Benson, John A. *See* Peterson, Jane A.  
 Benveniste, Raoul E. and Todaro, George J.: Gene transfer between eukaryotes (letter). v217 p1202 24 Sep 82.  
 Bergland, Richard. *See* Carr, Daniel B.  
 Bergman, A. L. *See* Bakke, J. E.  
 Bernardini, I. *See* Gahl, W. A.  
 Berry, Charles C.: Intrathecal interferon for multiple sclerosis (technical comment). v217 p269-270 16 July 82.  
 Bethe, Hans A.: Uranium enrichment technology (letter). v217 p398 30 July 82.  
 Bettarini, F. *See* Bowers, W. S.  
 Bischoff, James L. and Rosenbauer, Robert J.: Uranium series ages of the Del Mar man and Sunnyvale skeletons (technical comment). v217 p756 20 Aug 82.  
 Blaauw, G. J. *See* O'Hanlon, J. F.  
 Blessing, W. W.; Sved, A. F.; Reis, D. J.: Destruction of noradrenergic neurons in rabbit brainstem elevates plasma vasopressin, causing hypertension. v217 p661-663 13 Aug 82.  
 Block, Gene D. and Wallace, Steven F.: Localization of a circadian pacemaker in the eye of a mollusc, *Bulla*. v217 p155-157 9 July 82.  
 Bludman, S. A.: review of *To Fulfill a Vision*, edited by Yuval Ne'eman. v217 p528-529 6 Aug 82.  
 Blum, L. *See* Narten, A. H.  
 Blume, Howard. *See* Carr, Daniel B.  
 Boime, Irving. *See* Hoshina, Harumi.  
 Borgens, Richard B.: Mice regrow the tips of their foretoes. v217 p747-750 20 Aug 82.  
 Borle, A. B. and Snowdowne, K. W.: Measurement of intracellular free calcium in monkey kidney cells with aequorin. v217 p252-254 16 July 82.  
 Botstein, David. *See* Shortle, David.  
 Boulain, Jean-Claude and Menéz, André: Neurotoxin-specific immunoglobulins accelerate dissociation of the neurotoxin-acetylcholine receptor complex. v217 p732-733 20 Aug 82.  
 Bowers, W. S.; Evans, P. H.; Marsella, P. A.; Soderlund, D. M.; Bettarini, F.: Natural and synthetic allatotoxins: suicide substrates for juvenile hormone biosynthesis. v217 p647-648 13 Aug 82.  
 Bowlus, R. David. *See* Yancey, Paul H.  
 Brams, Steven J. and Straffin, Philip D., Jr.: review of *Fair Representation*, by Michel L.

- Balinski and H. Peyton Young. v217 p437–438 30 July 82.
- Branch, Andrea D.; Robertson, Hugh D.; Greer, Christopher; Gegenheimer, Peter; Peebles, Craig; Abelson, John: Cell-free circularization of viroid progeny RNA by an RNA ligase from wheat germ. v217 p1147–1149 17 Sep 82.
- Brassell, S. C. *See* Mackenzie, A. S.
- Bregman, Barbara S. and Goldberger, Michael E.: Anatomical plasticity and sparing of function after spinal cord damage in neonatal cats. v217 p553–555 6 Aug 82.
- Brenneisen, Paul. *See* Geissbühler, Hans.
- Brinkman, W. F.; Fisher, Daniel S.; Moncton, D. E.: Melting of two-dimensional solids. v217 p693–700 20 Aug 82.
- Britten, Roy J. *See* Davidson, Eric H.
- Broad, William J. (news and comment): A \$20-million test of cooperation. v217 p710–712 20 Aug 82. Auditors scour labs in search of waste. v217 p334–335 23 July 82. Evading the Soviet ear at Glen Cove. v217 p910–911 3 Sep 82. Federal judge dismisses "creation science" suit. v217 p232–233 16 July 82. Laser battle stations: back to the drawing board. v217 p1017 10 Sep 82. NIH grapples with misconduct. v217 p227 16 July 82. Toying with the truth to win a Nobel. v217 p1120–1122 17 Sep 82.
- Broadwell, Richard D.; Salzman, Michael; Kaplan, Richard S.: Morphologic effect of dimethyl sulfoxide on the blood-brain barrier. v217 p164–166 9 July 82.
- Broderson, J. Roger. *See* Campbell, Carlos C.
- Brown, Floyd W. *See* Hatcher, Patrick G.
- Brown, J. Martin. *See* Bump, Edward A.
- Brown, Jerram L.: The adaptationist program (letter). v217 p884, 886 3 Sep 82.
- Brown, Robert L.: review of *Searching Between the Stars*, by Lyman Spitzer, Jr. v217 p241–242 16 July 82.
- Browne, Ronald G. and Welch, Willard M.: Stereoselective antagonism of phencyclidine's discriminative properties by adenosine receptor agonists. v217 p1157–1159 17 Sep 82.
- Bruehl, George W. *See* Oldenstadt, Dennis L.
- Brush, Stephen G.: Nickel for your thoughts: Urey and the origin of the moon. v217 p891–893 3 Sep 82.
- Buckman, Maire T. *See* Mills, David E.
- Bump, Edward A.; Yu, Ning Y.; Brown, J. Martin: Radiosensitization of hypoxic tumor cells by depletion of intracellular glutathione. v217 p544–545 6 Aug 82.
- Burling, R. W. *See* Hay, Alex E.
- Burrows, M. and Siegler, M. V. S.: Spiking local interneurons mediate local reflexes. v217 p650–652 13 Aug 82.
- C**
- Cahill, S. L. *See* Khaw, B. A.
- Caldwell, R. W. *See* Cullen, Daniel.
- Callahan, Eileen C. *See* Tong, Lillian.
- Calvet, James P.; Meyer, Leslie M.; Pederson, Thoru: Small nuclear RNA U2 is base-paired to heterogeneous nuclear RNA. v217 p456–458 30 July 82.
- Campbell, A. N.; Hollister, V. F.; Duda, R. O.; Hart, P. E.: Recognition of a hidden mineral deposit by an artificial intelligence program. v217 p927–929 3 Sep 82.
- Campbell, Carlos C.; Collins, William E.; Nguyen-Dinh, Phuc; Barber, Ann; Broderson, J. Roger: *Plasmodium falciparum* gametocytes from culture in vitro develop to sporozoites that are infectious to primates. v217 p1048–1050 10 Sep 82.
- Cann, Rebecca L. and Wilson, Allan C.: Models of human evolution (letter). v217 p303–304 23 July 82.
- Capone, Douglas G. and Carpenter, Edward J.: Nitrogen fixation in the marine environment. v217 p1140–1142 17 Sep 82.
- Carey, William D.: Handcuffing science (editorial). v217 p1207 24 Sep 82.
- Carpenter, Edward J. *See* Capone, Douglas G.
- Carper, Deborah; Shinohara, Toshimichi; Piatigorsky, Joram; Kinoshita, Jin H.: Deficiency of functional messenger RNA for a developmentally regulated  $\beta$ -crystallin polypeptide in a hereditary cataract. v217 p463–464 30 July 82.
- Carr, Daniel B.; Bergland, Richard; Hamilton, Allan; Blume, Howard; Kasting, Norman; Arnold, Michael; Martin, Joseph B.; Rosenblatt, Michael: Endotoxin-stimulated opioid peptide secretion: two secretory pools and feedback control in vivo. v217 p845–848 27 Aug 82.
- Cartmill, Matt: review of *The Primates of Madagascar*, by Ian Tattersall. v217 p1132–1133 17 Sep 82.
- Castanho, B. J.; Graham, T. L.; Kaufman, R. J.; Sidhu, R. S.: Synthetic elicitors (letter). v217 p776 27 Aug 82.
- Cavanaugh, Philip. *See* Honn, Kenneth V.
- Cecchi, Giovanni; Griffiths, Peter J.; Taylor, Stuart: Muscular contraction: kinetics of crossbridge attachment studies by high-frequency stiffness measurements. v217 p70–72 2 July 82.
- Cedar, Howard. *See* Gazit, Bruria.
- Chance, Britton. *See* Mayevsky, Avraham. *See also* Shapiro, Irving M.
- Chappe, B. and Albrecht, P.: Polar lipids of archaebacteria in sediments and petroleums. v217 p65–66 2 July 82.
- Chasko, Joseph H. *See* Thayer, James R.
- Cheit, Earl F.: Audit at the University of California (letter). v217 p686, 688 20 Aug 82.
- Cheng, Lanna. *See* Lewin, Ralph A.
- Chiariello, Nona; Hickman, James C.; Mooney, Harold A.: Endomycorrhizal role for interspecific transfer of phosphorus in a community of annual plants. v217 p941–943 3 Sep 82.
- Chrétien, Michel. *See* Watson, Stanley J.
- Chung, Soo I. *See* Galanakis, Dennis K.
- Ciesielski, Janice. *See* McCauley, Clark.
- Clark, M. M. *See* Savage, J. C.
- Clark, Mary E. *See* Yancey, Paul H.
- Clark, Truman B.: Spiroplasmas: diversity of arthropod reservoirs and host-parasite relationships. v217 p57–59 2 July 82.
- Clarke, Roy S., Jr.: Explaining meteorites (letter). v217 p886 3 Sep 82.
- Clausen, Chris; Machen, Terry E.; Diamond, Jared M.: Changes in the cell membranes of the bullfrog gastric mucosa with acid secretion. v217 p448–450 30 July 82.
- Cleland, Corey L.; Rymer, W. Zev; Edwards, Frank R.: Force-sensitive interneurons in the spinal cord of the cat. v217 p652–655 13 Aug 82.
- Cloud, Preston and Glaessner, Martin F.: The Ediacaran Period and system: Metazoa inherit the earth. v217 p783–792 27 Aug 82.
- Cohen, Fredric S.; Akabas, Myles H.; Finkelstein, Alan: Osmotic swelling of phospholipid vesicles causes them to fuse with a planar phospholipid bilayer membrane. v217 p458–460 30 July 82.
- Cole, Clarice. *See* McCarron, David A.
- Cole, Kenneth: Late Quaternary zonation of vegetation in the eastern Grand Canyon. v217 p1142–1145 17 Sep 82.
- Cole, Susan; Hainsworth, F. Reed; Kamil, Alan C.; Mercier, Terre; Wolf, Larry L.: Spatial learning as an adaptation in hummingbirds. v217 p655–657 13 Aug 82.
- Coleman, Richard M. *See* Czeisler, Charles.
- Collins, Frank. *See* Crutcher, Keith A.
- Collins, William E. *See* Campbell, Carlos C.
- Colombo, Umberto: Alternative energy futures: the case for electricity. v217 p705–709 20 Aug 82.
- Confer, Dennis L. and Eaton, John W.: Phagocyte impotence caused by an invasive bacterial adenylate cyclase. v217 p948–950 3 Sep 82.
- Connex, Pierre: Missing computers (letter). v217 p686 20 Aug 82.
- Cooney, Charles L. *See* Langer, Robert.
- Cooper, Geoffrey M.: Cellular transforming genes. v217 p801–806 27 Aug 82.
- Cooper, Jack R. *See* Meyer, Edwin M.
- Costa, D. P. *See* Kooyman, G. L.
- Côté, Jean. *See* Proulx-Ferland, Louise.
- Cotman, Carl W. *See* Nieto-Sampedro, M.
- Covey, Douglas F. *See* Klunk, William E.
- Cowan, Jack: review of *Nonlinear Phenomena in Physics and Biology*, edited by Richard H. Enns, Billy L. Jones, Robert M. Miura, and Sadanand S. Rangnekar. v217 p624–625 13 Aug 82.
- Cowan, Mark D.: OSHA policy on carcinogens (letter). v217 p884 3 Sep 82.
- Cowan, N. J. *See* Wilde, C. D.
- Coy, David H. *See* Proulx-Ferland, Louise.
- Crain, Stanley M. *See* Peterson, Edith R.
- Cramer, W. A.: review of *Electron Transport and Photophosphorylation*, edited by J. Barber. v217 p822–823 27 Aug 82.
- Crawford, Eugene C. *See* Petranka, James W.
- Crews, David. *See* Garstka, William R.
- Croft, B. A. *See* Mullin, C. A.
- Crow, M. T. and Kushmerick, M. J.: Phosphorylation of myosin light chains in mouse fast-twitch muscle associated with reduced actomyosin turnover rate. v217 p835–837 27 Aug 82.
- Crowther, C. E. *See* Wilde, C. D.
- Croxall, J. P. *See* Kooyman, G. L.
- Crutcher, Keith A. and Collins, Frank: In vitro evidence for two distinct hippocampal growth factors: basis of neuronal plasticity? v217 p67–68 2 July 82.
- Cullen, Daniel and Caldwell, R. W.: Mycotoxin weapons (letter). v217 p776 27 Aug 82.
- Culliton, Barbara J. (news and comment): AAMC speaks on coping with fraud. v217 p226–228 16 July 82. Reagan alters make-up of ethics panel. v217 p715–716 20 Aug 82. Stanford doctors try Consulting, Inc. v217 p1122–1123 17 Sep 82.
- Cunningham, Paul T. *See* Holt, Ben D.
- Cutter, Gregory A.: Selenium in reducing waters. v217 p829–831 27 Aug 82.
- Czeisler, Charles A.; Moore-Ede, Martin C.; Coleman, Richard M.: Rotating shift work schedules that disrupt sleep are improved by applying circadian principles. v217 p460–463 30 July 82.
- D**
- Dalziel, Ian W. D.: review of *Crustal Evolution of Southern Africa*, by A. J. Tankard, K. A. Eriksson, D. R. Hunter, M. P. A. Jackson, D. K. Horday, and W. E. L. Minter. v217 p1028 10 Sep 82.
- Daves, G. Doyle, Jr. *See* Rasmussen, Lois E.
- David, Edward E., Jr.: To prune, promote, and preserve (editorial). v217 p589 13 Aug 82.
- Davidson, Eric H.; Hough-Evans, Barbara R.; Britten, Roy J.: Molecular biology in the sea urchin embryo. v217 p17–26 2 July 82.
- Davie, J. *See* Faustman, D.
- Davis, R. W. *See* Kooyman, G. L.
- De Clercq, Erik. *See* Wigdahl, Brian L.
- Dean, Reginald L., III. *See* Bartus, Raymond T.
- DeAre, Diana. *See* Long, Larry.
- Deen, Dennis F. *See* Tofilon, Philip J.
- DeLuca, Hector F. *See* Ameenuddin, Syed.
- DeMore, W. B. and Yung, Yuk L.: Catalytic processes in the atmospheres of Earth and Venus. v217 p1209–1213 24 Sep 82.
- Denny, Brewster C.: The high-technology fix (editorial). v217 p781 27 Aug 82.
- Dershowitz, Alan M. *See* Leslie, Crystal A.
- Dhar, Ravi; Ellis, Ronald W.; Shih, Thomas Y.; Oroszlan, Stephen; Shapiro, Bruce; Maizel, Jacob; Lowy, Douglas; Scolnick, Edward: Nucleotide sequence of the p21 transforming protein of Harvey murine sarcoma virus. v217 p934–937 3 Sep 82.
- Diamond, Jared M. *See* Clausen, Chris.

- Dickson, David: (news and comment): British universities in turmoil. v217 p811-813 27 Aug 82. Europe chases pennies in heaven. v217 p1010-1012 10 Sep 82. France boosts biotechnology. v217 p516 6 Aug 82. Hopes are flying high for U.N. space conference. v217 p134-135 9 July 82. NASA floats a global plan. v217 p916 3 Sep 82. U.K. in dilemma over biotechnology. v217 p812 27 Aug 82. U.N. space conference ends in compromise. v217 p915-916 3 Sep 82. West Germany increases space research funds. v217 p430 30 July 82.
- Dieter, Hermann H.; Muller-Eberhard, Ursula; Johnson, Eric F.: Rabbit hepatic progesterone 21-hydroxylase exhibits a bimodal distribution of activity. v217 p741-743 20 Aug 82.
- Dillman, Donald A. *See* Oldenstadt, Dennis L.
- Dixit, S. *See* Yoo, T. J.
- Dobson, Velma. *See* Abramov, Israel.
- Donoghue, Michael J.: review of *The Monocotyledons*, by Rolf M. T. Dahlgren and H. Trevor Clifford. v217 p1133-1134 17 Sep 82.
- Douthart, Richard J. and Norris, Franklin H.: Events in the evolution of pre-proinsulin. v217 p729-732 20 Aug 82.
- Downing, Donald T. *See* Wertz, Philip W.
- Drake, Michael J.: review of *Planetary Science*, by Stuart Ross Taylor. v217 p824 27 Aug 82.
- Drummond, George S. and Kappas, Attallah: Chemoprevention of neonatal jaundice: potency of tin-protoporphyrin in an animal model. v217 p1250-1252 24 Sep 82.
- Dubin, Mark W. *See* Archer, Steven M.
- Duda, R. O. *See* Campbell, A. N.
- Dumont, Dominique. *See* Proulx-Ferland, Louise.
- Dun, Nae J. *See* Jiang, Zhi-gen.
- Dunlap, Thomas R.: review of *Insects, Experts, and the Insecticide Crisis*, by John H. Perkins. v217 p821-822 27 Aug 82.
- Dunn, Thelma B.: "Myeloma" (letter). v217 p107 9 July 82.
- E**
- Eaton, John W. *See* Confer, Dennis L.
- Edwards, Frank R. *See* Cleland, Corey L.
- Eglinton, G. *See* Mackenzie, A. S.
- Eichler, Eva M.; Washburn, Linda L.; Whitney, J. Barry, III; Morrow, Katherine E.: *Mus poschiavinus* Y chromosome in the C57BL/6J murine genome causes sex reversal. v217 p535-537 6 Aug 82.
- Einhorn, Daniel; Young, James B.; Landsberg, Lewis: Hypotensive effect of fasting: possible involvement of the sympathetic nervous system and endogenous opiates. v217 p727-729 20 Aug 82.
- Ekes, Roslyn. *See* Jacobs, Lawrence.
- El-Genk, Mohamed S. *See* Wilkins, Ebtisam S.
- Elioff, T. *See* Alonso, J. R.
- Eliot, Theodore L., Jr. *See* Leslie, Crystal A.
- Ellis, Ronald W. *See* Dhar, Ravi.
- Englander, S. Walter: Grant funding (letter). v217 p984 10 Sep 82.
- Epperly, W. R. *See* Vick, G. K.
- Epstein, Suzanne; Nadler, Paul; Lunney, Joan: Multiple submission (letter). v217 p686 20 Aug 82.
- Erlanger, Margaret. *See* Kopp, Stephen J.
- Eshleman, Von R.: Argon in Titan's atmosphere (letter). v217 p200 16 July 82.
- Evans, P. H. *See* Bowers, W. S.
- Evens, Cynthia. *See* Honn, Kenneth V.
- Eyman, L. Dean. *See* Trabalka, John R.
- F**
- Fallon, J. T. *See* Khaw, B. A.
- Faustman, D.; Lacy, P.; Davie, J.; Hauptfeld, V.: Prevention of allograft rejection by immunization with donor blood depleted of Ig-bearing cells. v217 p157-158 9 July 82.
- Feagans, Douglas E. *See* Zelenka, Peggy S.
- Feeley, Dennis M.; Gonzalez, Abel; Law, Wendy A.: Amphetamine, haloperidol, and experience interact to affect rate of recovery after motor cortex injury. v217 p855-857 27 Aug 82.
- Felix, Christopher C. *See* Sealy, Roger C.
- Feller, Irwin: review of *Patterns of Technological Innovation*, by Devendra Sahal. v217 p47 2 July 82.
- Ferrell, R. E. *See* Pathak, S.
- Ferrendelli, James A. *See* Klunk, William E.
- Fidler, Isaiah J. *See* Talmadge, James E.
- Fidler, Isaiah J. and Hart, Ian R.: Biological diversity in metastatic neoplasms: origins and implications. v217 p998-1003 10 Sep 82.
- Field, Michael. *See* Musch, Mark W.
- Finkel, Robert. *See* Bada, Jeffrey L.
- Finkelstein, Alan. *See* Cohen, Fredric S.
- Fischer, Hans-Peter. *See* Geissbühler, Hans.
- Fisher, Daniel S. *See* Brinkman, W. F.
- Flach, Peter D. *See* Pemberton, S. George.
- Flores, Hector E. and Galston, Arthur W.: Polyamines and plant stress: activation of putrescine biosynthesis by osmotic shock. v217 p1259-1261 24 Sep 82.
- Fluk, L. J. *See* Adler, E. M.
- Force, R. J. *See* Alonso, J. R.
- Ford, P. G. *See* Pettengill, G. H.
- Forsberg, Erik J. and Miller, Richard J.: Cholinergic agonists induce vectorial release of serotonin from duodenal enterochromaffin cells. v217 p355-356 23 July 82.
- Foster, Henry L. and Balk, Melvin W.: Histo-compatibility and isoenzyme differences in commercially supplied BALB/c mice: a reply. v217 p381 23 July 82.
- Fox, Jack J. *See* Saito, Yutaka.
- Fox, Renée C. and Swazey, Judith P.: Critical care at Tianjin's First Central Hospital and the fourth modernization. v217 p700-705 20 Aug 82.
- Frasca, Peter. *See* Shapiro, Irving M.
- Frautschi, Steven: Entropy in an expanding universe. v217 p593-599 13 Aug 82.
- Freeman, Arnold. *See* Jacobs, Lawrence.
- Frei, Emil, III: The national cancer chemotherapy program. v217 p600-606 13 Aug 82.
- Freidel, David A.: review of *Ancient Mesoamerica*, by Richard E. Blanton, Stephen A. Kowalewski, Gary Feinman, and Jill Appel. v217 p1131-1132 17 Sep 82.
- Friedlander, E. M. *See* Heckman, H. H.
- Frye, James S. *See* Lambert, Joseph B.
- G**
- Gahl, W. A.; Bashan, N.; Tietze, F.; Bernardini, I.; Schulman, J. D.: Cystine transport is defective in isolated leukocyte lysosomes from patients with cystinosis. v217 p1263-1265 24 Sep 82.
- Gajdusek, D. Carleton. *See* Perl, Daniel P.
- Galanakis, Dennis K.; Laurent, Phillip; Janoff, Aaron; Chung, Soo I.: Cigarette smoke contains anticoagulants against fibrin aggregation and factor XIIIa in plasma. v217 p642-645 13 Aug 82.
- Gallop, Paul M.; Paz, Mercedes A.; Henson, Edward: Boradeption: a new procedure for transferring water-insoluble agents across cell membranes. v217 p166-169 9 July 82.
- Galston, Arthur W. *See* Flores, Hector E.
- Gandhi, Indira: Scientific endeavor in India. v217 p1008-1009 10 Sep 82.
- Garruto, Ralph M. *See* Perl, Daniel P.
- Garska, William R. and Crews, David: Female control of male reproductive function in a Mexican snake. v217 p1159-1160 17 Sep 82.
- Gazit, Bruria; Cedar, Howard; Lerer, Israela; Voss, Ruth: Active genes are sensitive to deoxyribonuclease I during metaphase. v217 p648-650 13 Aug 82.
- Gegenheimer, Peter. *See* Branch, Andrea D.
- Geissbühler, Hans; Brenneisen, Paul; Fischer, Hans-Peter: Frontiers in crop produc-
- tion: chemical research objectives. v217 p505-510 6 Aug 82.
- Gellhorn, Alfred. *See* Leslie, Crystal A.
- Gent, Martin: USDA security checks (letter). v217 p6 2 July 82.
- Gentry, R. Cecil: review of *Tropical Cyclones*, by Richard A. Anthes. v217 p347-348 23 July 82.
- Gerhardt, H. Carl and Rheinlaender, Jürgen: Localization of an elevated sound source by the green tree frog. v217 p663-664 13 Aug 82.
- Geschwind, Norman: Correct attributions (letter). v217 p778 27 Aug 82.
- Giacomoni, Dario. *See* Lavelle, Donald.
- Gibbs, Clarence J., Jr. *See* Perl, Daniel P.
- Gibson, A. R. *See* Kohlerman, N. J.
- Giles, Albert L., Jr. *See* Kornhauser, Andrija.
- Gilon, Haim and Sedat, John W.: Fluorescence microscopy: reduced photobleaching of rhodamine and fluorescein protein conjugates by *n*-propyl gallate. v217 p1252-1255 24 Sep 82.
- Glaesner, Martin F. *See* Cloud, Preston.
- Glick, Stanley D. and Guido, Ronald A.: Naloxone, antagonism of the thermoregulatory effects of phenylididine. v217 p1272-1273 24 Sep 82.
- Glonke, Thomas. *See* Kopp, Stephen J.
- Goertz, C. K.: review of *Relation between Laboratory and Space Plasmas*, edited by Hiroshi Kikuchi. v217 p1243-1244 24 Sep 82.
- Goldberger, Michael E. *See* Bregman, Barbara S.
- Goldbeter, Albert. *See* Koshland, Daniel E., Jr.
- Goldstein, Charles M.: Electronic publication (letter). v217 p484 6 Aug 82.
- Golub, Ellis E. *See* Shapiro, Irving M.
- Gonzalez, Abel. *See* Feeney, Dennis M.
- Gonzalez, Nancie L.: The organization of work in China's communes. v217 p898-903 3 Sep 82.
- Goodstein, Judith R.: review of *Bringing Aerodynamics to America*, by Paul A. Hanle. v217 p627-628 13 Aug 82.
- Gordon, James. *See* Abramov, Israel.
- Gorski, Roger A. *See* Arendash, Gary W.
- Grabowski, Susan M. *See* Matsumoto, Jiro.
- Graham, T. L. *See* Castanho, B. J.
- Gray, J. Patrick. *See* Wolfe, Linda D.
- Greengard, Paul. *See* Nestler, Eric J.
- Greer, Christopher. *See* Branch, Andrea D.
- Gregas, Pamela A.: International conference to focus on world food problems (AAAS). v217 p1025-1026 10 Sep 82.
- Grenan, Marie M. *See* Wysor, Michael S.
- Griffiths, Peter J. *See* Cecchi, Giovanni.
- Griffiths, Roland R. *See* Lukas, Scott E.
- Groves, Douglas. *See* Rasmussen, Lois E.
- Grunder, H. A. *See* Alonso, J. R.
- Guido, Ronald A. *See* Glick, Stanley D.
- Gur, Raquel E. *See* Gur, Ruben C.
- Gur, Ruben C.; Gur, Raquel E.; Obrist, Walter D.; Hungerbuhler, Jean Pierre; Younkin, Donald; Rosen, Anna D.; Skolnick, Brett E.; Reichiv, Martin: Sex and handedness differences in cerebral blood flow during rest and cognitive activity. v217 p659-661 13 Aug 82.
- H**
- Haak, T. W. *See* O'Hanlon, J. F.
- Haber, E. *See* Khaw, B. A.
- Haber, James E. *See* Shortle, David.
- Hahn, R. L. *See* Narten, A. H.
- Hainline, Louise. *See* Abramov, Israel.
- Hainsworth, F. Reed. *See* Cole, Susan.
- Hall, Dennis. *See* Pearson, Richard D.
- Halpern, Jack: Mechanism and stereoselectivity of asymmetric hydrogenation. v217 p401-407 30 July 82.
- Hamburg, David A.: Health and behavior (editorial). v217 p399 30 July 82.
- Hamilton, Allan. *See* Carr, Daniel B.
- Hammond, Denman. *See* Rowley, Janet D.
- Hand, Steven C. *See* Yancey, Paul H.

- Hanna, Michael G., Jr. and Key, Marc E.: Immunotherapy of metastases enhances subsequent chemotherapy. v217 p367-369 23 July 82.
- Hanneman, R. E., Jr. See Johnston, S. A.
- Harcus, Jane L. See Pearson, Richard D.
- Harley, Dianne: Models of human evolution (letter). v217 p296 23 July 82.
- Harris, A. J.: review of *Studies in Developmental Neurobiology*, edited by W. Maxwell Cowan. v217 p49 2 July 82.
- Harrison, Anna J.: Goals of science education (editorial). v217 p109 9 July 82.
- Hart, Ian R. See Fidler, Isaiah J.
- Hart, Nancy. See Liu, Chi-Li.
- Hart, P. E. See Campbell, A. N.
- Hartman, Boyd K. See Preskorn, Sheldon H.
- Hatcher, Patrick G.; Lyons, Paul C.; Thompson, Carolyn L.; Brown, Floyd W.; Maciel, Gary E.: Organic matter in a coal ball: peat or coal? v217 p831-833 27 Aug 82.
- Hauptfeld, V. See Faustman, D.
- Hausfater, Glenn; Altmann, Jeanne; Altmann, Stuart: Long-term consistency of dominance relations among female baboons (*Papio cynocephalus*). v217 p752-755 20 Aug 82.
- Havery, Julie. See Shapiro, Irving M.
- Hay, Alex E.; Burling, R. W.; Murray, J. W.: Remote acoustic detection of a turbidity current surge. v217 p833-835 27 Aug 82.
- Hayes, Wilson C. See Ruff, Christopher B.
- Haynes, C. Vance, Jr.: Great Sand Sea and Selima Sand Sheet, eastern Sahara: geochronology of desertification. v217 p629-633 13 Aug 82.
- Hazelgrove, John. See Shapiro, Irving M.
- Heath, G. Ross: review of *The Oceanic Lithosphere*, edited by Cesare Emiliani. v217 p724 20 Aug 82.
- Heckman, H. H.; Karant, Y. J.; Friedlander, E. M.: Characteristics of the ionization tracks and interactions of uranium-238 nuclei in emulsion. v217 p1137-1138 17 Sep 82.
- Heddle, John A.: review of *Sister Chromatid Exchange*, edited by Sheldon Wolff. v217 p241 16 July 82.
- Henderson, Maureen M. See Rowley, Janet D.
- Henderson-Sellers, Ann. See Rossow, William B.
- Hendrickson, Anita. See Abramov, Israel.
- Henneous, Roger. See Rasmussen, Lois E.
- Henson, Edward. See Gallop, Paul M.
- Hepler, Peter K. See Saunders, Mary Jane.
- Herbert, H. J. See Roelofs, W. L.
- Hewlett, Erik L. See Pearson, Richard D.
- Hickman, James C. See Chiarello, Nona.
- Hill, A. S. See Roelofs, W. L.
- Hill, R. D. See Michelassi, F.
- Hinuma, Yoriko. See Yamamoto, Naoki.
- Hoffberg, Steven. See Langer, Robert.
- Hoffman, Richard L.: review of *The Biology of Centipedes*, by J. G. E. Lewis. v217 p527 6 Aug 82.
- Hoidal, John R. See Niewohner, Dennis E.
- Holden, Constance (news and comment): Academy boosts social sciences. v217 p133 9 July 82. Age of nuclear terrorism. v217 p913 3 Sep 82. Butler leaving institute on aging. v217 p616-617 13 Aug 82. Curbing the antiquities trade. v217 p1230-1231 24 Sep 82. Ethics panel looks at human gene splicing. v217 p516-517 6 Aug 82. Guatemalan doctor set free. v217 p613 13 Aug 82. House nixes binary program. v217 p517 6 Aug 82. Humanities association goes under. v217 p517 6 Aug 82. Looking at genes in the workplace. v217 p336-337 23 July 82. NASA student rat project questioned. v217 p425 30 July 82. PR for nuclear energy. v217 p430 30 July 82. Still one monkey to go. v217 p430 30 July 82.
- Hollister, V. F. See Campbell, A. N.
- Holt, Ben D.; Kumar, Romesh; Cunningham, Paul T.: Primary sulfates in atmospheric sulfates: estimation by oxygen isotope ratio measurements. v217 p51-53 2 July 82.
- Holton, Gerald: Ethical issues in medicine (letter). v217 p1204 24 Sep 82.
- Holyoak, Keith J.: review of *Imagery*, edited by Ned Block. v217 p348-349 23 July 82.
- Homcy, C. See Khaw, B. A.
- Honn, Kenneth V.; Cavanaugh, Philip; Evans, Cynthia; Taylor, John D.; Sloane, Bonnie F.: Tumor cell-platelet aggregation: induced by cathepsin B-like proteinase and inhibited by prostacyclin. v217 p540-542 6 Aug 82.
- Hopkins, Theodore L.; Morgan, Thomas D.; Aso, Yoichi; Karmer, Karl J.: N-β-Alanyldopamine: major role in insect cuticle tanning. v217 p364-366 23 July 82.
- Hortin, Glen. See Hoshina, Harumi.
- Hoshina, Harumi; Hortin, Glen; Boime, Irving: Rat pro-opiomelanocortin contains sulfate. v217 p63-64 2 July 82.
- Hough-Evans, Barbara R. See Davidson, Eric H.
- Houk, J. C. See Kohlerman, N. J.
- Hughes, Charlie G. See Rosenthal, Gerald A.
- Hughes, Terence J.: Paleoglaciology (letter). v217 p886 3 Sep 82.
- Hungerbuhler, Jean Pierre. See Gur, Ruben C.
- Hyde, James S. See Sealy, Roger C.
- ## I and J
- Ikawa-Smith, Fumiko: review of *Prehistory of Japan*, by C. Melvin Aikens and Takayasu Iguchi. v217 p146-148 9 July 82.
- Ikekawa, Nobuo. See Ameenuddin, Syed.
- Isaac, Glynn L.: Models of human evolution (letter). v217 p295-296 23 July 82.
- Jacobs, Lawrence; O'Malley, Judith; Freeman, Arnold; Ekes, Roslyn: Intrathecal interferon for multiple sclerosis (technical comment). v217 p270 16 July 82.
- Jain, S. C. See Roelofs, W. L.
- James, Helen F. See Olson, Storrs L.
- Janoff, Aaron. See Galanakis, Dennis K.
- Janzen, Daniel H. See Rosenthal, Gerald A.
- Jenkins, William J. See Sayles, Frederick L.
- Jewell, Sarah A.: Bellomo, Giorgio; Thor, Hjördis; Orrenius, Sten; Smith, Martyn T.: Bleb formation in hepatocytes during drug metabolism is caused by disturbances in thiol and calcium ion homeostasis. v217 p1257-1259 24 Sep 82.
- Jiang, Zhi-gen; Dun, Nae J.; Karczmar, Alexander G.: Substance P: a putative sensory transmitter in mammalian autonomic ganglia. v217 p739-741 20 Aug 82.
- John, E. R. See Ahn, H.
- Johnson, Eric F. See Dieter, Hermann H.
- Johnson, Irma Y.: Federal information services (letter). v217 p107 9 July 82.
- Johnson, John L.: review of *Plasma Physics and Nuclear Fusion Research*, edited by Richard D. Gill. v217 p440 30 July 82.
- Johnston, S. A. and Hanneman, R. E., Jr.: Manipulations of endosperm balance number overcome crossing barriers between diploid *Solanum* species. v217 p446-448 30 July 82.
- Juno, Charles. See Menzel, E. W., Jr.
- Just, John J. See Petranka, James W.
- ## K
- Kahan, Brenda; Auerbach, Robert; Alter, Barbara J.; Bach, Fritz H.: Histocompatibility and isoenzyme differences in commercially supplied "BALB/c" mice. v217 p379-381 23 July 82.
- Kakuta, Saburo. See Shapiro, Irving M.
- Kaili, Ronald E. See Tong, Lillian.
- Kamil, Alan C. See Cole, Susan.
- Kane, Julian. See Sokal, Robert R.
- Kane, Thomas C. See Uetz, George W.
- Kang, A. H. See Yoo, T. J.
- Kannagi, Mari. See Yamamoto, Naoki.
- Kaplan, John: Academy marijuana report (letter). v217 p686 20 Aug 82.
- Kaplan, Richard S. See Broadwell, Richard D.
- Kappas, Attallah. See Drummond, George S.
- Karant, Y. J. See Heckman, H. H.
- Karczmar, Alexander G. See Jiang, Zhi-gen.
- Kark, Pieter: Reproducing results (letter). v217 p6 2 July 82.
- Karmer, Karl J. See Hopkins, Theodore L.
- Kastning, Norman. See Carr, Daniel B.
- Katterhagen, Joseph Gale. See Rowley, Janet.
- Kaufman, R. J. See Castanho, B. J.
- Keigwin, Lloyd: Isotopic paleoceanography of the Caribbean and east Pacific: role of Panama uplift in late Neogene time. v217 p350-353 23 July 82.
- Kerr, Richard A. (research news): Acoustic tomography of the ocean. v217 p38 2 July 82. Cloud seeding: one success in 35 years. v217 p519-521 6 Aug 82. CO<sub>2</sub>-climate models defended. v217 p620 13 Aug 82. El Chichón forebodes climate change. v217 p1023 10 Sep 82. A few lessons learned. v217 p520 6 Aug 82. Sun, weather, and climate: a connection? v217 p917-919 3 Sep 82. Test fails to confirm cloud seeding effect. v217 p234-236 16 July 82.
- Key, Marc E. See Hanna, Michael G., Jr.
- Keyworth, George A., II: The role of science in a new era of competition. v217 p606-609 13 Aug 82.
- Khaw, B. A.; Scott, J.; Fallon, J. T.; Cahill, S. L.; Haber, E.; Homcy, C.: Myocardial injury: quantitation by cell sorting initiated with antimyosin fluorescent spheres. v217 p1050-1053 10 Sep 82.
- Kiang, N. Y. S.; Rho, J. M.; Northrop, C. C.; Liberman, M. C.; Ryugo, D. K.: Hair-cell innervation by spiral ganglion cells in adult cats. v217 p175-177 9 July 82.
- Kingsbury, Robert. See McKnight, Steven L.
- Kinoshita, Jin H. See Carper, Deborah.
- Kirkham, R. V.: review of *Advances in Geology of the Porphyry Copper Deposits*, edited by Spencer R. Titley. v217 p1028-1029 10 Sep 82.
- Klein, Michael. See Langer, Robert.
- Kleinzeller, A. See Adler, E. M.
- Klotz, Irving M.: Numbers of receptor sites from Scatchard graphs: facts and fantasies. v217 p1247-1249 24 Sep 82.
- Klunk, William E.; McKeon, Ann C.; Covey, Douglas F.; Ferrendelli, James A.: Alpha-substituted γ-butyrolactones: new class of anticonvulsant drugs. v217 p1040-1042 10 Sep 82.
- Knauf, David B.: review of *Chemiosmotic Proton Circuits in Biological Membranes*, edited by V. P. Skulachev and Peter C. Hinkle. v217 p625-626 13 Aug 82.
- Knauss, John A. See Ross, David A.
- Kobayashi, Yoshiro. See Ameenuddin, Syed.
- Kohlerman, N. J.; Gibson, A. R.; Houk, J. C.: Velocity signals related to hand movements recorded from red nucleus neurons in monkeys. v217 p857-860 27 Aug 82.
- Kolata, Gina (research news): Computer graphics comes to statistics. v217 p919-920 3 Sep 82. Grafts correct brain damage. v217 p342-344 23 July 82. How can computers get common sense? v217 p1237-1238 24 Sep 82. Mathematician solves simplex problem. v217 p39 2 July 82. Topologists startled by new results. v217 p432-433 30 July 82. (news and comment): Bill proposed to curb export of technology. v217 p1016 10 Sep 82. DOD official criticizes export control policies. v217 p34 2 July 82. Export control threat disrupts meeting. v217 p1233-1234 24 Sep 82. FDA to reexamine Bendectin data. v217 p335 23 July 82. Fields medals announced. v217 p912 3 Sep 82.
- Kooyman, G. L.; Davis, R. W.; Croxall, J. P.; Costa, D. P.: Diving depths and energy requirements of king penguins. v217 p726-727 20 Aug 82.
- Kopp, Stephen J.; Glonek, Thomas; Perry, H. Mitchell, Jr.; Erlanger, Margaret; Perry, Elizabeth F.: Cardiovascular actions of cadmium at environmental exposure levels. v217 p837-839 27 Aug 82.
- Körner, Ann and Pawelek, John: Mammalian tyrosinase catalyzes three reactions in the biosynthesis of melanin. v217 p1163-1165 17 Sep 82.

Kornhauser, Andrija; Wamer, Wayne G.; Giles, Albert L., Jr.: Psoralen phototoxicity: correlation with serum and epidermal 8-methoxysoralen and 5-methoxysoralen in the guinea pig. v217 p733-735 20 Aug 82.

Kornicker, Louis S.: review of *Fossil and Recent Ostracods*, edited by R. H. Bate, E. Robinson, and L. M. Sheppard. v217 p724-725 20 Aug 82.

Koshland, Daniel E., Jr.; Goldbeter, Albert; Stock, Jeffry B.: Amplification and adaptation in regulatory and sensory systems. v217 p220-225 16 July 82.

Kourides, Ione A. *See* Spiegel, Katharyn.

Koyanagi, Yoshio. *See* Yamamoto, Naoki.

Krag, S. S. *See* Kulemann-Kloene, H.

Kuc, Joseph A. *See* Tijamos, Eleftherios C.

Kulemann-Kloene, H.; Krag, S. S.; Bang, F. B.: Mucus secretion-stimulating activity in human lymphoblastoid cells. v217 p736-737 20 Aug 82.

Kumar, Romesh. *See* Holt, Ben D.

Kushnerick, M. J. *See* Crow, M. T.

Kushner, Rose. *See* Rowley, Janet D.

Kusnetz, Howard L.: Genetic screening (letter). v217 p1082 17 Sep 82.

Kusunoki, Masato. *See* Taniyama, Kohtaro.

**L**

LaBossiere, Eileen. *See* Abramov, Israel.

Labrèe, Fernand. *See* Proulx-Ferland, Louise.

Lacy, P. *See* Faustman, D.

Lambert, Joseph B. and Frye, James S.: Carbon functionalities in amber. v217 p55-57 2 July 82.

Lancaster, H. D. *See* Alonso, J. R.

Landa, L. *See* Michelassi, F.

Landis, D. M. D. *See* Millard, W. J.

Landsberg, Lewis. *See* Einhorn, Daniel.

Langer, Robert; Linhardt, Robert J.; Hoffberg, Steven; Larsen, Annette K.; Cooney, Charles L.; Tapper, David; Klein, Michael: An enzymatic system for removing heparin in extracorporeal therapy. v217 p261-263 16 July 82.

Langlais, André J. *See* O'Brien, Robert N.

Larsen, Annette K. *See* Langer, Robert.

Larsen, G. L. *See* Bakke, J. E.

Lasagna, Louis: Academy marijuana report (letter). v217 p686 20 Aug 82.

Lasić, Danilo D. *See* Nozaki, Yasuhiko.

Laurent, Phillip. *See* Galanakis, Dennis K.

Lavelle, Donald; Ostro, Marc J.; Giacomoni, Dario: Differential breakdown of phylogenetically diverse ribosomal RNA's inserted via liposomes into mammalian cells. v217 p59-61 2 July 82.

Law, Wendy A. *See* Feeney, Dennis M.

Leiter, Joseph: Information services (letter). v217 p982 10 Sep 82.

Leontief, Wassily: Academic economics (letter). v217 p104, 107 9 July 82.

Lerer, Israela. *See* Gazit, Bruria.

Leslie, Crystal A.; Wald, George; Gellhorn, Alfred; Eliot, Theodore L., Jr.; Dershawitz, Alan; Pollack, Herman: Arrests in Afghanistan (letter). v217 p1202, 1204 24 Sep 82.

Leverett, Dennis H.: Fluorides and the changing prevalence of dental caries. v217 p26-30 2 July 82.

Levin, Barry E.: Presynaptic location and axonal transport of  $\beta$ -adrenoreceptors in the rat brain. v217 p555-557 6 Aug 82.

Levine, Allen S. and Morley, John E.: Purinergic regulation of food intake. v217 p77-79 2 July 82.

Levy, Robert I. and Moskowitz, Jay: Cardiovascular research: decades of progress, a decade of promise. v217 p121-129 9 July 82.

Lewin, Benjamin: Electronic publication (letter). v217 p482 6 Aug 82.

Lewin, Ralph A. and Cheng, Lanna: Marine biology on Palau (letter). v217 p886 3 Sep 82.

Lewin, Roger (research news): Can genes jump between eukaryotic species? v217 p42-43 2 July 82. Darwin died at a most propitious time. v217 p717-718 20 Aug 82.

A downward slope to greater diversity. v217 p1239-1240 24 Sep 82. Food fuels reproductive success. v217 p238-239 16 July 82. Long-awaited decision on DNA database. v217 p817-818 27 Aug 82. On the origin of introns. v217 p921-922 3 Sep 82. Repeated DNA still in search of a function. v217 p621-623 13 Aug 82.

Lewis, Ellen R. *See* Nieto-Sampedro, M.

Lewis, James W.; Tordoff, Michael G.; Sherman, Jack E.; Liebeskind, John C.: Adrenal medullary enkephalin-like peptides may mediate opioid stress analgesia. v217 p557-559 6 Aug 82.

Lieberman, M. C. *See* Kiang, N. Y. S.

Lieberman, Leslie S. *See* Wolfe, Linda D.

Liebeskind, John C. *See* Lewis, James W.

Linhardt, Robert J. *See* Langer, Robert.

Linn, C. E. *See* Roelofs, W. L.

Lippa, Arnold S. *See* Bartus, Raymond T.

Lipscomb, John D.: review of *Experiences in Biochemical Perception*, edited by L. Nicholas Ornston and Stephen G. Sligar. v217 p725 20 Aug 82.

Liu, Chi-Li; Hart, Nancy; Peck, Harry D., Jr.: Inorganic pyrophosphate: energy source for sulfate-reducing bacteria of the genus *Desulfotomaculum*. v217 p363-364 23 July 82.

Loehlin, John C.: review of *The Inheritance of Personality and Ability*, by Raymond B. Catell. v217 p1241 24 Sep 82.

Lofgren, E. J. *See* Alonso, J. R.

Long, Larry and DeAre, Diana: Repopulating the countryside: a 1980 census trend. v217 p1111-1116 17 Sep 82.

Longo, Frank M. *See* Nieto-Sampedro, M.

Lovejoy, C. Owen: Models of human evolution (letter). v217 p304, 306 23 July 82.

Lowenstein, E. *See* Michelassi, F.

Lowy, Douglas. *See* Dhar, Ravi.

Lukas, Scott E. and Griffiths, Roland R.: Precipitated withdrawal by a benzodiazepine receptor antagonist (Ro 15-1788) after 7 days of diazepam. v217 p1161-1163 17 Sep 82.

Lunney, Joan. *See* Epstein, Suzanne.

Lynch, Thomas J. *See* Matsumoto, Jiro.

Lyons, Paul C. *See* Hatcher, Patrick G.

**M**

MacCluer, Jean W.: review of *Population and Biological Aspects of Human Mutation*, edited by Ernest E. Hook and Ian H. Porter. v217 p1241-1242 24 Sep 82.

Machen, Terry E. *See* Clausen, Chris.

Maciel, Gary E. *See* Hatcher, Patrick G.

Mackenzie, A. S.; Brassell, S. C.; Eglington, G.; Maxwell, J. R.: Chemical fossils: the geological fate of steroids. v217 p491-504 6 Aug 82.

Madison, D. V. *See* Nicoll, R. A.

Maizel, Jacob. *See* Dhar, Ravi.

Malin, Michael C. and Sheridan, Michael F.: Computer-assisted mapping of pyroclastic surges. v217 p637-640 13 Aug 82.

Maltzman, Irving M. *See* Pendery, Mary L.

Manian, Albert A. *See* Pearson, Richard D.

Manthorpe, Marston. *See* Nieto-Sampedro, M.

Maranto, Anthony R.: Neuronal mapping: a photooxidation reaction makes Lucifer yellow useful for electron microscopy. v217 p953-955 3 Sep 82.

Marden, Eve: review of *Neuropharmacology of Insects*. v217 p924-925 3 Sep 82.

Margolis, Robert L.: review of *Mitosis/Cytokinesis*, edited by Arthur M. Zimmerman and Arthur Forer. v217 p440-441 30 July 82.

Mark, Robert K. *See* Newman, Evelyn B.

Marks, Tobin J.: Actinide organometallic chemistry. v217 p989-997 10 Sep 82.

Marouf, Essam A. and Tyler, G. Leonard: Microwave edge diffraction by features in Saturn's rings: observations with Voyager 1. v217 p243-245 16 July 82.

Marsella, P. A. *See* Bowers, W. S.

Marshall, Eliot (news and comment): Air pollution clouds U.S.-Canadian relations. v217 p1118-1119 17 Sep 82. Breeder wins exemption from licensing procedures. v217 p712 20 Aug 82. HUD's orphan: research on lead poisoning. v217 p1124 17 Sep 82. Laser wars in court: Gould v. Bell Telephone. v217 p810 27 Aug 82. Pot-spraying plan raises some smoke. v217 p429 30 July 82. The Soviet elephant grass theory. v217 p32 2 July 82. Supreme Court to review California nuclear ban. v217 p134 9 July 82. A turnabout on EPA lead rules. v217 p711 20 Aug 82. USDA research under fire. v217 p33 2 July 82. Using experience to calculate nuclear risks. v217 p338-339 23 July 82. White House, EPA agree on leaded gas. v217 p912 3 Sep 82. White House steps into lead fight. v217 p807-808 27 Aug 82. Yellow rain: filling in the gaps. v217 p31-34 2 July 82. (letter): Laser patents. v217 p1082 17 Sep 82.

Martin, Donald B. *See* Simmons, David A.

Martin, J. B. *See* Millard, W. J.

Martin, Joseph B. *See* Carr, Daniel B.

Marton, Laurence J. *See* Tofilon, Philip J.

Marx, Jean L.: (research news): Autoimmunity in left-handers. v217 p141-142, 144 9 July 82. Gene scanning with block mutations. v217 p434-435 30 July 82. How the brain controls birdsong. v217 p1125-1126 17 Sep 82. Is hepatitis B virus a retrovirus in disguise? v217 p1021-1022 10 Sep 82. New disease baffles medical community. v217 p618-621 13 Aug 82. Transplants as guides to brain development. v217 p340-342 23 July 82.

Matsumoto, Hiroyuki; O'Tousa, Joseph E.; Pak, William L.: Light-induced modification of *Drosophila* retinal polypeptides in vivo. v217 p839-841 27 Aug 82.

Matsumoto, Jiro; Lynch, Thomas J.; Grabowski, Susan M.; Taylor, John D.; Chen, T. T.: Induction of melanized cells from a goldfish erythrophoroma: isolation of pigment translocation variants. v217 p1149-1151 17 Sep 82.

Matsumura, F. *See* Mullin, C. A.

Mature, Frank J., Jr.: review of *Recent and Fossil Bryozoa*, edited by Gilbert P. Larwood and Claus Nielsen. v217 p242 16 July 82.

Maugh, Thomas H., II (research news): Biometric phosphorus condensing agents. v217 p721 20 Aug 82. "Cancer is not inevitable." v217 p36-37 2 July 82. Human skeletal growth factor isolated. v217 p819 27 Aug 82. New polymers by blending. v217 p721 20 Aug 82. A new treatment for burn victims. v217 p522 6 Aug 82. Novel materials from telechelic prepolymers. v217 p720-721 20 Aug 82. A sanguine future for biomaterials. v217 p1129-1130 17 Sep 82. Stereoselective synthesis of amino acids. v217 p720 20 Aug 82. "Wolf and lamb" chemistry. v217 p719-720 20 Aug 82.

Maxwell, J. R. *See* Mackenzie, A. S.

Mayevsky, Avraham and Chance, Britton: Intracellular oxidation-reduction state measured *in situ* by a multichannel fiber-optic surface fluorometer. v217 p537-540 6 Aug 82.

McBride, Jana S.; Walliker, David; Morgan, Gillian: Antigenic diversity in the human malaria parasite *Plasmodium falciparum*. v217 p254-257 16 July 82.

McCarron, David A.; Morris, Cynthia D.; Cole, Clarice: Dietary calcium in human hypertension. v217 p267-269 16 July 82.

McCauley, Clark and Ciesielski, Janice: Electroencephalogram tests for brain dysfunction: a question of validity (technical comment). v217 p81-82 2 July 82.

McKeon, Ann C. *See* Klunk, William E.

McKnight, Steven L. and Kingsbury, Robert: Transcriptional control signals of a eukaryotic protein-coding gene. v217 p316-324 23 July 82.

Medvedev, Zhores A.: Radioactivity in the Urals (letter). v217 p200 16 July 82.

- Meinwald, J. *See* Roelofs, W. L.
- Meisner, Herman: Mycotoxin weapons (letter). v217 p776 27 Aug 82.
- Meneghetti, J. R. *See* Alonso, J. R.
- Menéz, André. *See* Boulain, Jean-Claude.
- Menon, I. A. *See* Sealy, Roger C.
- Menzel, E. W., Jr., and Juno, Charles: Marmosets (*Saguinus fuscicollis*): are learning sets learned? v217 p750–752 20 Aug 82.
- Mercier, Terre. *See* Cole, Susan.
- Meyer, Edwin M. and Cooper, Jack R.: High-affinity choline transport in proteoliposomes derived from rat cortical synaptosomes. v217 p843–845 27 Aug 82.
- Meyer, J. Harlan and Zakon, Harold H.: Androgens alter the tuning of electroreceptors. v217 p635–637 13 Aug 82.
- Meyer, Leslie M. *See* Calvet, James P.
- Michalson, Edgar L. *See* Oldenstadt, Dennis L.
- Michelassi, F.; Landa, L.; Hill, R. D.; Lowenstein, E.; Watkins, W. D.; Petkau, A. J.; Zapol, W. M.: Leukotriene D<sub>4</sub>: a potent coronary artery vasoconstrictor associated with impaired ventricular contraction. v217 p841–843 27 Aug 82.
- Milch, Jerome: review of *Clipped Wings*, by Mel Horwitch. v217 p923 3 Sep 82.
- Millard, W. J.; Sagar, S. M.; Landis, D. M. D.; Martin, J. B.; Badger, T. M.: Cysteamine: a potent and specific depletor of pituitary prolactin. v217 p452–454 30 July 82.
- Miller, J. R. *See* Mullin, C. A.
- Miller, Richard J. *See* Forsberg, Erik J. *See also* Musch, Mark W.
- Mills, David E.; Buckman, Maire T.; Peake, Glenn T.: Neonatal treatment with antiserum to prolactin lowers blood pressure in rats. v217 p162–164 9 July 82.
- Mintz, Beatrice. *See* Stewart, Timothy A.
- Mirocha, C. J.: Mycotoxin weapons (letter). v217 p776, 778 27 Aug 82.
- Moncton, D. E. *See* Brinkman, W. F.
- Mooney, Harold A. *See* Chiariello, Nona.
- Moore-Ede, Martin C. *See* Czeisler, Charles A.
- Morgan, Gillian. *See* McBride, Jana S.
- Morgan, Thomas D. *See* Hopkins, Theodore L.
- Morin, James. *See* Peterson, Jane A.
- Morley, John E. *See* Levine, Allen S.
- Morell, J. I. and Pfaff, D. W.: Characterization of estrogen-concentrating hypothalamic neurons by their axonal projections. v217 p1273–1276 24 Sep 82.
- Morris, Cynthia D. *See* McCarron, David A.
- Morrow, Katherine E. *See* Eichler, Eva M.
- Morse, S. A.: review of *Igneous Rocks of the British Isles*, edited by D. S. Sutherland. v217 p823–824 27 Aug 82.
- Moskowitz, Jay. *See* Levy, Robert I.
- Mossop, Grant D. *See* Pemberton, S. George.
- Muller-Eberhard, Ursula. *See* Dieter, Hermann H.
- Mulley, John C. *See* Sutherland, Grant R.
- Mullin, C. A.; Croft, B. A.; Strickler, K.; Matsuura, F.; Miller, J. R.: Detoxification enzyme differences between a herbivorous and predatory mite. v217 p1270–1272 24 Sep 82.
- Mullin, J. M. *See* Adler, E. M.
- Murray, J. W. *See* Hay, Alex E.
- Musch, Mark W.; Miller, Richard J.; Field, Michael; Siegel, Marvin I.: Stimulation of colonic secretion by lipoxygenase metabolites of arachidonic acid. v217 p1255–1256 24 Sep 82.
- Nadler, Paul. *See* Epstein, Suzanne.
- Naftchi, N. Eric: Functional restoration of the traumatically injured spinal cord in cats by clonidine. v217 p1042–1044 10 Sep 82.
- Narten, A. H. and Hahn, R. L.: Direct determination of ionic solvation from neutron diffraction. v217 p1249–1250 24 Sep 82.
- Narten, A. H.; Thiessen, W. E.; Blum, L.: Atom pair distribution functions of liquid water at 25°C from neutron diffraction. v217 p1033–1034 10 Sep 82.
- Nelson, Margaret C.: review of *The American Cockroach*, edited by William J. Bell and K. G. Adiyodi. v217 p349 23 July 82.
- Nestler, Eric J.; Zatz, Martin; Greengard, Paul: A diurnal rhythm in pineal protein 1 content mediated by β-adrenergic neurotransmission. v217 p357–359 23 July 82.
- Newbrun, Ernest: Sugar and dental caries: a review of human studies. v217 p418–423 30 July 82.
- Newman, Evelyn B.; Mark, Robert K.; Vivian, R. Gwinn: Anasazi solar marker: the use of a natural rockfall. v217 p1036–1038 10 Sep 82.
- Ngai, Margaret. *See* Peterson, Jane A.
- Nguyen-Dinh, Phuc. *See* Campbell, Carlos C.
- Nicholas, Kenneth M.: review of *Organic and Bio-organic Chemistry of Carbon Dioxide*, edited by Shohei Inoue and Noboru Yamazaki. v217 p148 9 July 82.
- Nichols, Rodney W.: Arms control and national security (letter). v217 p585–586 13 Aug 82.
- Nicoll, R. A. and Madison, D. V.: General anesthetics hyperpolarize neurons in the vertebrate central nervous system. v217 p1055–1057 10 Sep 82.
- Nieto-Sampedro, M.; Lewis, Ellen R.; Cotman, Carl W.; Manthorpe, Marston; Skaper, Stephen D.; Barbin, Gilles; Longo, Frank M.; Varon, Silvio: Brain injury causes a time-dependent increase in neurotrophic activity at the lesion site. v217 p860–861 27 Aug 82.
- Niewiarowski, Stefan: Polish crackdown (letter). v217 p398 30 July 82.
- Niewohner, Dennis E. and Hoidal, John R.: Lung fibrosis and emphysema: divergent responses to a common injury? v217 p359–360 23 July 82.
- Niklas, Karl J. and Paw U, Kyaw Tha: Pollination and airflow patterns around conifer ovulate cones. v217 p442–444 30 July 82.
- Norman, Colin (news and comment): Another biotechnology company bites the dust. v217 p1016–1017 10 Sep 82. Another setback for Clinch River. v217 p1124 17 Sep 82. A-21 rules take effect. v217 p810 27 Aug 82. Budget resolution treats R & D relatively well. v217 p135 9 July 82. Cetus cuts projects, lays off 40 people. v217 p1229 24 Sep 82. CMU's growing corporate connections. v217 p512–513 6 Aug 82. Electronics firms plug into the universities. v217 p511–514 6 Aug 82. Genex to go public. v217 p713 20 Aug 82. Industrial R & D rises. v217 p427 30 July 82. A new pot of money for plant sciences. v217 p1228–1229 24 Sep 82. OPEC gives a boost to U.S. firewood use. v217 p1017 10 Sep 82. Science helps break the ice. v217 p614 13 Aug 82. Small firms to get guaranteed R & D support. v217 p132–133 9 July 82. Small power producers look to Congress for help. v217 p613 13 Aug 82. Tokyo's edge over Detroit. v217 p518 6 Aug 82. White House study plows up ag research. v217 p1227–1228 24 Sep 82.
- Norris, Franklin H. *See* Douthart, Richard J.
- Northrop, C. C. *See* Kiang, N. Y. S.
- Nozaki, Yasuhiko; Lasic, Danilo D.; Tanford, Charles; Reynolds, Jacqueline A.: Size analysis of phospholipid vesicle preparations. v217 p366–367 23 July 82.
- Nozette, S. *See* Pettengill, G. H.
- O'Brien, Robert N.; Langlais, André J.; Seuffer, Wolf D.: Diffusion coefficients of respiratory gases in a perfluorocarbon liquid. v217 p153–155 9 July 82.
- Obrist, Walter D. *See* Gur, Ruben C.
- O'Hanlon, J. F.; Haak, T. W.; Blaauw, G. J.; Riemersma, J. B. J.: Diazepam impairs lateral position control in highway driving. v217 p79–81 2 July 82.
- Ohtsubo, Eiichi. *See* Tsuchida, Nobuo.

**N**

- Nadler, Paul. *See* Epstein, Suzanne.
- Naftchi, N. Eric: Functional restoration of the traumatically injured spinal cord in cats by clonidine. v217 p1042–1044 10 Sep 82.
- Narten, A. H. and Hahn, R. L.: Direct determination of ionic solvation from neutron diffraction. v217 p1249–1250 24 Sep 82.
- Narten, A. H.; Thiessen, W. E.; Blum, L.: Atom pair distribution functions of liquid water at

**O**

- O'Brien, Robert N.; Langlais, André J.; Seuffer, Wolf D.: Diffusion coefficients of respiratory gases in a perfluorocarbon liquid. v217 p153–155 9 July 82.
- Obrist, Walter D. *See* Gur, Ruben C.
- O'Hanlon, J. F.; Haak, T. W.; Blaauw, G. J.; Riemersma, J. B. J.: Diazepam impairs lateral position control in highway driving. v217 p79–81 2 July 82.
- Ohtsubo, Eiichi. *See* Tsuchida, Nobuo.

- Okada, Morihisa. *See* Yamamoto, Naoki.
- Oldenstadt, Dennis L.; Allan, Robert E.; Bruehl, George W.; Dillman, Donald A.; Michalson, Edgar L.; Papendick, Robert I.; Rydrych, Donald J.: Solutions to Environmental Economic Problems (STEEP). v217 p904–909 3 Sep 82.
- O'Leary, James W.: review of *The Physiology and Biochemistry of Drought Resistance in Plants*, edited by L. G. Paleg and D. Aspinall. v217 p47–48 2 July 82.
- Olivio, Richard F.: review of *Principles of Neural Science*, by Eric R. Kandel and James H. Schwartz. v217 p240 16 July 82.
- Olson, Storrs L. and James, Helen F.: Fossil birds from the Hawaiian Islands: evidence for wholesale extinction by man before Western contact. v217 p633–635 13 Aug 82.
- O'Malley, Judith. *See* Jacobs, Lawrence.
- Opel, John R.: Education, science, and national economic competitiveness. v217 p116–1117 17 Sep 82.
- Oppenheimer, Michael: Sulfur emissions (letter). v217 p586 13 Aug 82.
- Orci, Lelio. *See* Patel, Yogesh C.
- Oredsson, Stina M. *See* Tofilon, Philip J.
- Oroszlan, Stephen. *See* Dhar, Ravi.
- Orenius, Sten. *See* Jewell, Sarah A.
- Ostro, Marc J. *See* Lavelle, Donald.
- O'Tousa, Joseph E. *See* Matsumoto, Hiroyuki.
- Ow, Cathy. *See* Peterson, Jane A.

**P**

- Pacala, Stephen and Roughgarden, Jonathan: Resource partitioning and interspecific competition in two two-species insular *Anolis* lizard communities. v217 p444–446 30 July 82.
- Pak, William L. *See* Matsumoto, Hiroyuki.
- Papendick, Robert I. *See* Oldenstadt, Dennis L.
- Paquette, Leo A.: Silicon-mediated organic synthesis. v217 p793–800 27 Aug 82.
- Parker, Leonard: review of *Quantum Gravity 2*, edited by C. J. Isham, R. Penrose, and D. W. Sciama. v217 p346–347 23 July 82.
- Parks, Norris J. *See* Thayer, James R.
- Pasternak, Gavril W. *See* Spiegel, Katharyn.
- Patel, Yogesh C.; Amherdt, Mylene; Orci, Lelio: Quantitative electron microscopic autoradiography of insulin, glucagon, and somatostatin binding sites of islets. v217 p1155–1156 17 Sep 82.
- Pathak, S.; Strong, L. C.; Ferrell, R. E.; Trindade, A.: Familial renal cell carcinoma with a 3;11 chromosome translocation limited to tumor cells. v217 p939–941 3 Sep 82.
- Patterson, Gregory M. L. and Withers, Nancy W.: Laboratory cultivation of *Prochloron*, a tryptophan auxotroph. v217 p1034–1035 10 Sep 82.
- Paw U, Kyaw Tha: Related incidents? (letter). v217 p778 27 Aug 82. *See also* Niklas, Karl.
- Pawelek, John. *See* Körner, Ann.
- Paz, Mercedes A. *See* Gallop, Paul M.
- Peake, Glenn T. *See* Mills, David E.
- Pearson, K. G. *See* Robertson, R. M.
- Pearson, Richard D.; Manian, Albert A.; Marcus, Jane L.; Hall, Dennis; Hewlett, Erik L.: Lethal effect of phenothiazine neuroleptics on the pathogenic protozoan *Leishmania donovani*. v217 p369–371 23 July 82.
- Peck, Harry D., Jr. *See* Liu, Chi-Li.
- Pederson, Thoru. *See* Calvet, James P.
- Peebles, Craig. *See* Branch, Andrea D.
- Pegg, Anthony E.; Seely, James; Zagon, Ian S.: Autoradiographic identification of ornithine decarboxylase in mouse kidney by means of  $\alpha[5\text{-}^{14}\text{C}]$ diifluoromethylornithine. v217 p68–70 2 July 82.
- Pemberton, S. George; Flach, Peter D.; Mossop, Grant D.: Trace fossils from the Athabasca oil sands, Alberta, Canada. v217 p825–827 27 Aug 82.
- Pendergast, David M.: Ancient Maya mercury. v217 p533–535 6 Aug 82.
- Pendery, Mary L.; Maltzman, Irving M.; West,

- L. Jolyon: Controlled drinking by alcoholics? new findings and a reevaluation of a major affirmative study. v217 p169-175 9 July 82.
- Penzias, A. A.: Laser patents (letter). v217 p1082 17 Sep 82.
- Perl, Daniel P.; Gajdusek, D. Carleton; Garuto, Ralph M.; Yanagihara, Richard T.; Gibbs, Clarence J., Jr.: Intraneuronal aluminum accumulation in amyotrophic lateral sclerosis and parkinsonism-dementia of Guam. v217 p1053-1055 10 Sep 82.
- Perl, Edward R.: review of *Organization in the Spinal Cord*, by A. G. Brown. v217 p1242-1243 24 Sep 82.
- Perry, Elizabeth F. See Kopp, Stephen J.
- Perry, H. Mitchell, Jr. See Kopp, Stephen J.
- Peters, Elizabeth H. See Wolfe, Linda D.
- Peterson, Edith R. and Crain, Stanley M.: Nerve growth factor attenuates neurotoxic effects of taxol on spinal cord-ganglion explants from fetal mice. v217 p377-379 23 July 82.
- Peterson, Jane A.; Benson, John A.; Ngai, Margaret; Morin, James; Ow, Cathy: Scaling in tensile "skeletons": structures with scale-independent length dimensions. v217 p1267-1270 24 Sep 82.
- Petkau, A. J. See Michelassi, F.
- Petraska, James W.; Just, John J.; Crawford, Eugene C.: Hatching of amphibian embryos: the physiological trigger. v217 p257-259 16 July 82.
- Pettengill, G. H.; Ford, P. G.; Nozette, S.: Venus: global surface radar reflectivity. v217 p640-642 13 Aug 82.
- Pfaff, D. W. See Morrell, J. I.
- Philips, Frederick S. See Saito, Yutaka.
- Phillips, Esther: Ten years of congressional fellows (AAAS). v217 p1024-1025 10 Sep 82.
- Piatigorsky, Joram. See Carper, Deborah.
- Piegras, Donald J. and Wasserburg, G. J.: Isotopic composition of neodymium in waters from the Drake Passage. v217 p207-214 16 July 82.
- Pitot, Henry C. See Rowley, Janet D.
- Pittle, R. David: Public meetings (letter). v217 p200 16 July 82.
- Plucknett, Donald J. and Smith, Nigel J. H.: Agricultural research and Third World food production. v217 p215-220 16 July 82.
- Pollack, Herman. See Leslie, Crystal A.
- Poplack, David G. See Trigg, Michael E.
- Preskorn, Sheldon H.; Raichle, Marcus E.; Hartman, Boyd K.: Antidepressants alter cerebrovascular permeability and metabolic rate in primates. v217 p250-252 16 July 82.
- Price, P. B. See Ahlen, S. P.
- Price, Richard W. See Saito, Yutaka.
- Prichep, L. See Ahn, H.
- Prota, Giuseppe. See Sealy, Roger C.
- Proulx-Ferland, Louise; Labrie, Fernand; Dumont, Dominique; Côte, Jean; Coy, David H.; Sveiraf, Javier: Corticotropin-releasing factor stimulates secretion of melanocyte-stimulating hormone from the rat pituitary. v217 p62-63 2 July 82.
- Putnam, Robert W. See Schall, Jos. J.
- R**
- Raben, Joseph and Seiler, Lauren H.: Electronic publication (letter). v217 p482, 484 6 Aug 82.
- Rahn, Kenneth A.: Sources of Northeast pollution (letter). v217 p688 20 Aug 82.
- Raichle, Marcus E. See Preskorn, Sheldon H.
- Raleigh, C. B.; Sieh, K.; Sykes, L. R.; Anderson, D. L.: Forecasting southern California earthquakes. v217 p1097-1104 17 Sep 82.
- Rapp, Fred. See Wigdahl, Brian L.
- Rasmussen, Lois E.; Schmidt, Michael J.; Henneous, Roger; Groves, Douglas; Daves, G. Doyle, Jr.: Asian bull elephants: Flehmen-like responses to extractable components in female elephant estrous urine. v217 p159-162 9 July 82.
- Ratcliffe, Norman A. See Rhodes, Christopher P.
- Reichert, H. See Robertson, R. M.
- Reis, D. J. See Blessing, W. W.
- Reivich, Martin. See Gur, Ruben C.
- Reynolds, Jacqueline A. See Nozaki, Yasuhiko.
- Rheinlaender, Jürgen. See Gerhardt, H. Carl.
- Rho, J. M. See Kiang, N. Y. S.
- Rhodes, Christopher P.; Ratcliffe, Norman A.; Rowley, Andrew F.: Presence of coelomocytes in the primitive chordate amphioxus (*Branchiostoma lanceolatum*). v217 p263-265 16 July 82.
- Riemersma, J. B. J. See O'Hanlon, J. F.
- Roberts, Donald R.: Health problems of colonists (letter). v217 p484 6 Aug 82.
- Robertson, Hugh D. See Branch, Andrea D.
- Robertson, R. M.; Pearson, K. G.; Reichert, H.: Flight interneurons in the locust and the origin of insect wings. v217 p177-179 9 July 82.
- Robinson, Arthur L. (research news): Brookhaven magnet progress. v217 p815 27 Aug 82. CERN gives nod to four LEP detectors. v217 p722 20 Aug 82. Fermilab installing superconducting magnet. v217 p814-817 27 Aug 82. LEP revolution under way at CERN. v217 p40-42 2 July 82. Particle theorists in a quandary. v217 p1127-1129 17 Sep 82. Pulsed neutron sources okayed. v217 p922 3 Sep 82. Quantum mechanics passes another test. v217 p435-436 30 July 82. Slower magnetic fusion pace set. v217 p236-237 16 July 82. (news and comment): ISABELLE spending questioned. v217 p428 30 July 82. Spain rejoins CERN after 14-year absence. v217 p232 16 July 82.
- Robinson, John G. See Wolfe, Linda D.
- Roelofs, W. L.; Hill, A. S.; Linn, C. E.; Meinwald, J.; Jain, S. C.; Herbert, H. J.; Smith, R. F.: Sex pheromone of the winter moth, a geometrid with unusually low temperature precopulatory responses. v217 p657-659 13 Aug 82.
- Rosen, Anna D. See Gur, Ruben C.
- Rosenbauer, Robert J. See Bischoff, James L.
- Rosenblatt, Michael. See Carr, Daniel B.
- Rosenthal, Gerald A.; Hughes, Charlie G.; Janzen, Daniel H.: L-Canavanine, a dietary nitrogen source for the seed predator *Carpedes brasiliensis* (Bruchidae). v217 p353-355 23 July 82.
- Ross, David A. and Knauss, John A.: How the Law of the Sea Treaty will affect U.S. marine science. v217 p1003-1008 10 Sep 82.
- Ross, Ian M.: R & D in the United States: its strengths and challenges. v217 p130-131 9 July 82.
- Rosswall, William B.; Henderson-Sellers, Ann; Weinreich, Stephen K.: Cloud feedback: a stabilizing effect for the early earth. v217 p1245-1247 24 Sep 82.
- Rotenberg, David A. See Saito, Yutaka.
- Roubik, David W.: Obligate necrophagy in a social bee. v217 p1059-1060 10 Sep 82.
- Roughgarden, Jonathan. See Pacala, Stephen.
- Rovnyak, James: review of *E. B. Christoffel*, edited by P. L. Butzer and F. Fehér. v217 p145 9 July 82.
- Rowley, Andrew F. See Rhodes, Christopher P.
- Rowley, Janet D.; Hammond, Denman; Henderson, Maureen M.; Katterhagen, Joseph Gale; Kushner, Rose; Pitot, Henry C.; Samuels, Sheldon W.; Selikoff, Irving J.: Cancer advisory board (letter). v217 p585 13 Aug 82.
- Rubenstein, Daniel I.: review of *Foraging Behavior*, edited by Alan C. Kamil and Theodore D. Sargent. v217 p820-821 27 Aug 82.
- Ruff, Christopher B. and Hayes, Wilson C.: Subperiosteal expansion and cortical remodeling of the human femur and tibia with aging. v217 p945-948 3 Sep 82.
- Ryder, Tom. See Tsuchida, Nobuo.
- Rydrych, Donald J. See Oldenstadt, Dennis L.
- Rymer, W. Zev. See Cleland, Corey L.
- Ryugo, D. K. See Kiang, N. Y. S.
- S**
- Sagar, S. M. See Millard, W. J.
- Saito, Naoaki. See Taniyama, Kohtarō.
- Saito, Yutaka; Price, Richard W.; Rotenberg, David A.; Fox, Jack J.; Su, Tsann-Long; Watanabe, Kyoichi A.; Philips, Frederick S.: Quantitative autoradiographic mapping of herpes simplex virus encephalitis with a radiolabeled antiviral drug. v217 p1151-1153 17 Sep 82.
- Salzman, Michael. See Broadwell, Richard D.
- Samuels, Sheldon W. See Rowley, Janet D.
- Sanders, James E. See Wysor, Michael S.
- Saunders, Mary Jane and Hepler, Peter K.: Calcium ionophore A23187 stimulates cdkinase-like mitosis in *Funaria*. v217 p943-945 3 Sep 82.
- Savage, J. C. and Clark, M. M.: Magmatic resurgence in Long Valley caldera, California: possible cause of the 1980 Mammoth Lakes earthquakes. v217 p531-533 6 Aug 82.
- Sayles, Frederick L. and Jenkins, William J.: Advection of pore fluids through sediments in the equatorial east Pacific. v217 p245-248 16 July 82.
- Scanlan, Tony: Outlook for Soviet oil. v217 p325-330 23 July 82.
- Schall, Jos. J.; Bennett, Albert F.; Putnam, Robert W.: Lizards infected with malaria: physiological and behavioral consequences. v217 p1057-1059 10 Sep 82.
- Schatz, Gottfried: review of *Cytochrome Oxidase*, by Mårten Wikström, Klass Krab, and Matti Saraste. v217 p482 2 July 82.
- Schawlow, Arthur L.: Spectroscopy in a new light. v217 p9-16 2 July 82.
- Scheck, Adrienne C. See Wigdahl, Brian L.
- Schmandt, Jurgen: Policy research in an international setting (editorial). v217 p987 10 Sep 82.
- Schmidt, Michael J. See Rasmussen, Lois E.
- Schmidt, Victor A.: Magnetostratigraphy of sediments in Mammoth Cave, Kentucky. v217 p827-829 27 Aug 82.
- Schneider, Stephen H. See Thompson, Stanley L.
- Schopf, Thomas J. M.: review of *Evolution and Development*, edited by J. T. Bonner and *Genome Evolution*, edited by G. A. Dover and R. B. Flavell. v217 p438-440 30 July 82.
- Schulman, J. D. See Gahl, W. A.
- Schultz, Jack C. and Baldwin, Ian T.: Oak leaf quality declines in response to defoliation by gypsy moth larvae. v217 p149-151 9 July 82.
- Scolnick, Edward. See Dhar, Ravi.
- Scott, J. See Khaw, B. A.
- Scribner, Richard A.: SWARM holds annual meeting in El Paso (AAAS). v217 p44-45 2 July 82.
- Sealy, Roger C.; Hyde, James S.; Felix, Christopher C.; Menon, I. A.; Prota, Giuseppe: Eumelanins and pheomelanins: characterization by electron spin resonance spectroscopy. v217 p545-547 6 Aug 82.
- Sedat, John W. See Giloh, Haim.
- Seely, James. See Pegg, Anthony E.
- Seidah, Nabil G. See Watson, Stanley J.
- Seiler, Lauren H. See Raben, Joseph.
- Selikoff, Irving J. See Rowley, Janet D.
- Selp, F. B. See Alonso, J. R.
- Seufert, Wolf D. See O'Brien, Robert N.
- Shapiro, Bruce. See Dhar, Ravi.
- Shapiro, Irving M.; Golub, Ellis E.; Kakuta, Saburo; Hazelgrove, John; Haverty, Julie; Chance, Britton; Frasca, Peter: Initiation of endochondral calcification is related to changes in the redox state of hypertrophic chondrocytes. v217 p950-952 3 Sep 82.
- Shapley, Willis H.: R & D in the fiscal 1983 budget (editorial). v217 p205 16 July 82.
- Sheridan, Michael F. See Malin, Michael C.
- Sherman, Jack E. See Lewis, James W.
- Shih, Thomas Y. See Dhar, Ravi.
- Shinohara, Toshimichi. See Carper, Deborah.
- Shortle, David; Haber, James E.; Botstein, David: Lethal disruption of the yeast actin

- gene by integrative DNA transformation. v217 p371-373 23 July 82.
- Sidhu, R. S. See Castanho, B. J.
- Siedow, James N.: review of *Mitochondria*, by Alexander Tzagoloff. v217 p1134 17 Sep 82.
- Siegbahn, Kai: Electron spectroscopy for atoms, molecules, and condensed matter. v217 p111-121 9 July 82.
- Siegel, Marvin I. See Musch, Mark W.
- Siebler, M. V. S. See Burrows, M.
- Sieh, K. See Raleigh, C. B.
- Simmons, David A.; Winegrad, Albert I.; Martin, Donald B.: Significance of tissue myoinositol concentrations in metabolic regulation in nerve. v217 p848-851 27 Aug 82.
- Simon, Barry: review of *Rigorous Atomic and Molecular Physics*, edited by G. Velo and A. S. Wightman. v217 p145-146 9 July 82.
- Simpson, Beryl B.: review of *Biological Diversification in the Tropics*, edited by Ghillean T. Prance. v217 p526-527 6 Aug 82.
- Skaper, Stephen D. See Nieto-Sampedro, M.
- Skolnick, Brett E. See Gur, Ruben C.
- Sloane, Bonnie F. See Honn, Kenneth V.
- Slobodchikoff, C. N.: review of *Biology of Desert Invertebrates*, by Clifford S. Crawford. v217 p625 13 Aug 82.
- Smith, Martyn T. See Jewell, Sarah A.
- Smith, Nigel J. H. See Plucknett, Donald J.
- Smith, R. F. See Roelofs, W. L.
- Smith, R. Jeffrey (news and comment): A battle over pesticide data. v217 p515, 518 6 Aug 82. Debate stirred by new Love Canal report. v217 p431 30 July 82. Gorsuch strikes back at EPA critics. v217 p233 16 July 82. Hawaiian milk contamination creates alarm. v217 p137-140 9 July 82. Hawaiian milk problems stir little action. v217 p612-613 13 Aug 82. How safe is Niagara Falls. v217 p809 27 Aug 82. Love Canal study attracts criticism. v217 p714-715 20 Aug 82. Pesticide data released. v217 p1229 24 Sep 82. The risks of living near Love Canal. v217 p808-809, 811 27 Aug 82. Science Board nominations. v217 p1228 24 Sep 82. Stephen Bechtel appointed NAE chairman. v217 p1229 24 Sep 82. Squabbling over the space policy. v217 p331-333 23 July 82. A surprise on pesticides. v217 p810 27 Aug 82. Tolerance of zero not a zero tolerance. v217 p138 9 July 82. Washington set to act on heptachlor in milk. v217 p912-913 3 Sep 82.
- Showdowne, K. W. See Borle, A. B.
- Soderlund, D. M. See Bowers, W. S.
- Sokal, Robert R. and Kane, J.: Darwin centenary (letter). v217 p1204 24 Sep 82.
- Somero, George N. See Yancey, Paul H.
- Sousa, Wayne P.: review of *Marine Ecology*, by Jeffrey S. Levinton. v217 p49-50 2 July 82.
- Spear, Peter D. See Tong, Lillian.
- Sperry, Roger: Some effects of disconnecting the cerebral hemispheres. v217 p1223-1226 24 Sep 82.
- Spiegel, Katharyn; Kourides, Irene A.; Pasternak, Gavril W.: Prolactin and growth hormone release by morphine in the rat: different receptor mechanisms. v217 p745-747 20 Aug 82.
- Staley, Richard A.: Nonquantification in economics (letter). v217 p1204 24 Sep 82.
- Stark, Louisa A. See Archer, Steven M.
- Stephan, Friedrich K.: review of *Biological Clocks in Seasonal Reproductive Cycles*, edited by B. K. Follett and D. E. Follett. v217 p527-528 6 Aug 82.
- Stern, Jack T. See Susman, Randall L.
- Stevenson, R. R. See Alonso, J. R.
- Stewart, Timothy A.; Wagner, Erwin F.; Mintz, Beatrice: Human  $\beta$ -globin gene sequences injected into mouse eggs, retained in adults, and transmitted to progeny. v217 p1046-1048 10 Sep 82.
- Stock, Jeffry B. See Koshland, Daniel E., Jr.
- Straffin, Philip D., Jr. See Brams, Steven J.
- Stratton, Gail E. See Uetz, George W.
- Strickler, K. See Mullin, C. A.
- Strong, L. C. See Pathak, S.
- Stuart, J. M. See Yoo, T. J.
- Stuewer, Roger H.: review of *Electrons and Valence*, by Anthony N. Stranges. v217 p822 27 Aug 82.
- Sturrock, Peter A.: Study of anomalous phenomena (letter). v217 p1082, 1084 17 Sep 82.
- Su, Tsann-Long. See Saito, Yutaka.
- Sun, Marjorie (news and comment): Agencies in dispute over cancer policy. v217 p233 16 July 82. Depo-Provera debate revs up at FDA. v217 p424-428 30 July 82. EPA issues hazardous waste rules. v217 p430-431 30 July 82. Hatch supports arthritis institute. v217 p1016 10 Sep 82. Heart institute gets new director. v217 p431 30 July 82. Mary Lasker's latest pet project. v217 p611 13 Aug 82. Mathematical magic. v217 p713 20 Aug 82. A new arthritis institute nears approval. v217 p610-612 13 Aug 82. New directors at two institutes. v217 p34-35 2 July 82. NIH sees no need for DNA weapons ban. v217 p135 9 July 82. NRC puts limit on mental stress tests. v217 p431 30 July 82. OSHA's new thoughts on cancer policy. v217 p35 2 July 82. OSHA reviewing cotton dust standards. v217 p1232-1233 24 Sep 82. Risk estimate vanishes from benzene report. v217 p914-915 3 Sep 82. Stanford patent delayed. v217 p712-713 20 Aug 82. Thumbs down on use of defoliants in Amazon. v217 p913 3 Sep 82.
- Sunde, Milton. See Ameenuddin, Syed.
- Susman, Randall L. and Stern, Jack T.: Functional morphology of *Homo habilis*. v217 p931-934 3 Sep 82.
- Sutherland, Grant R.; Baker, Elizabeth; Mulley, John C.: Genetic length of a human chromosomal segment measured by recombination between two fragile sites. v217 p373-374 23 July 82.
- Sved, A. F. See Blessing, W. W.
- Sveiraf, Javier. See Proulx-Ferland, Louise.
- Swartz, Laura A. See Thayer, James R.
- Swazey, Judith P. See Fox, Renée C.
- Sykes, L. R. See Raleigh, C. B.
- T**
- Taber, Richard D.: review of *Mule and Black-Tailed Deer of North America*, edited by Olof C. Wallmo. v217 p926 3 Sep 82.
- Takahashi, Joseph S. and Zatz, Martin: Regulation of circadian rhythmicity. v217 p1104-1111 17 Sep 82.
- Talmadge, James E.; Wolman, Sandra R.; Fidler, Isaiah J.: Evidence for the clonal origin of spontaneous metastases. v217 p361-363 23 July 82.
- Tanaka, Chikako. See Taniyama, Koitaro.
- Tanford, Charles. See Nozaki, Yasuhiko.
- Taniyama, Koitaro; Kusunoki, Masato; Saito, Naoaki; Tanaka, Chikako: Release of  $\gamma$ -aminobutyric acid from cat colon. v217 p1038-1040 10 Sep 82.
- Tapper, David. See Langer, Robert.
- Tarlé, G. See Ahlen, S. P.
- Taylor, John D. See Honn, Kenneth V. See also Matsumoto, Jiro.
- Taylor, Stuart. See Cecchi, Giovanni.
- Tchen, T. T. See Matsumoto, Jiro.
- Thayer, James R.; Chasko, Joseph H.; Swartz, Laura A.; Parks, Norris J.: Gut reactions of radioactive nitrite after intratracheal administration in mice. v217 p151-153 9 July 82.
- Thiessen, W. E. See Narten, A. H.
- Thompson, Carolyn L. See Hatcher, Patrick G.
- Thompson, Starley L. and Schneider, Stephen H.: Carbon dioxide and climate: the importance of realistic geography in estimating the transient temperature response. v217 p1031-1033 10 Sep 82.
- Thor, Hjörðis. See Jewell, Sarah A.
- Tietze, F. See Gahl, W. A.
- Tjamos, Eleftherios C. and Kuć, Joseph A.: Inhibition of steroid glycoalkaloid accumula-
- tion by arachidonic and eicosapentaenoic acids in potato. v217 p542-544 6 Aug 82.
- Todaro, George J. See Benveniste, Raoul E.
- Tofilon, Philip J.; Oredsson, Stina M.; Deen, Dennis F.; Marton, Laurence J.: Polyamine depletion influences drug-induced chromosomal damage. v217 p1044-1046 10 Sep 82.
- Tomoda, K. See Yoo, T. J.
- Tong, Lillian; Spear, Peter D.; Kalil, Ronald E.; Callahan, Eileen C.: Loss of retinal X-cells in cats with neonatal or adult visual cortex damage. v217 p72-75 2 July 82.
- Tordoff, Michael G. See Lewis, James W.
- Townes, A. S. See Yoo, T. J.
- Trabalika, John R.; Eymann, L. Dean; Auerbach, Stanley I.: Radioactivity in the Urals (letter). v217 p198 16 July 82.
- Trigg, Michael E. and Poplack, David G.: Transplantation of leukemic bone marrow treated with cytotoxic antileukemic antibodies and complement. v217 p259-261 16 July 82.
- Trindade, A. See Pathak, S.
- Tritton, Thomas R. and Yee, Gene: The anti-cancer agent adriamycin can be actively cytotoxic without entering cells. v217 p248-250 16 July 82.
- Tsuchida, Nobuo; Ryder, Tom; Ohtsubo, Eiichi: Nucleotide sequence of the oncogene encoding the p21 transforming protein of Kirsten murine sarcoma virus. v217 p937-939 3 Sep 82.
- Turek, Fred W.: review of *The Clocks That Time Us*, by Martin C. Moore-Ede, Frank M. Sulzman, and Charles A. Fuller. v217 p925 3 Sep 82.
- Turner, B. L., II: review of *Maya Subsistence*, edited by Kent V. Flannery. v217 p345-346 23 July 82.
- Tyler, G. Leonard. See Marouf, Essam A.
- U**
- Uetz, George W.; Kane, Thomas C.; Stratton, Gail E.: Variation in the social grouping tendency of a communal web-building spider. v217 p547-549 6 Aug 82.
- V**
- Varon, Silvio. See Nieto-Sampedro, M.
- Vick, G. K. and Epperly, W. R.: Status of the development of EDS coal liquefaction. v217 p311-316 23 July 82.
- Vivian, R. Ginn. See Newman, Evelyn B.
- Voss, Ruth. See Gazit, Bruria.
- W**
- Wade, Michael J.: review of *The Masterpiece of Nature*, by Graham Bell. v217 p1027-1028 10 Sep 82.
- Wagner, Erwin F. See Stewart, Timothy A.
- Wald, George: Origin of the theory of solutions (letter). v217 p1084 17 Sep 82. See also Leslie, Crystal A.
- Waldrop, M. Mitchell (research news): NASA wants a space station. v217 p1018-1021 10 Sep 82. Neptune: a ring at last? v217 p143 9 July 82. Rethinking the future of magnetic fusion. v217 p1235-1236 24 Sep 82. Stellar hurricanes. v217 p142-143 9 July 82. Superclouds. v217 p142 9 July 82. (news and comment): Air Force general to head JPL. v217 p517 6 Aug 82. The case of the sinking booster. v217 p232 16 July 82. Centaur wars. v217 p1012-1014 10 Sep 82. NASA cuts flights, sets new shuttle price. v217 p35 2 July 82. A Soviet space station? v217 p332 23 July 82.
- Wallace, Steven F. See Block, Gene D.
- Wallen, Kim: Influence of female hormonal status on rhesus sexual behavior varies with space for social interaction. v217 p375-377 23 July 82.
- Walliker, David. See McBride, Jana S.

## INDEX TO VOLUME 217

- Walsh, John: (news and comment): British out of IIASA, Americans may stay in. v217 p338 23 July 82. Did success spoil ag research? v217 p615 13 Aug 82. Frank Press takes exception to NAS panel recommendations on marijuana. v217 p228-229 16 July 82. India-U.S. deal falters. v217 p1124 17 Sep 82. India-U.S. wrangle over nuclear fuel ended. v217 p614-616 13 Aug 82. New technologies for nonproliferation. v217 p230-231 16 July 82. Panel pans DOE management of labs. v217 p1015 10 Sep 82. R & D colloquium spotlights budget "crisis." v217 p136-137 9 July 82. Universities seek access to big number crunchers. v217 p339 23 July 82.
- Wamer, Wayne G. See Kornhauser, Andrija.
- Washburn, Linda L. See Eichler, Eva M.
- Wasserburg, G. J. See Piegras, Donald J.
- Wasson, John T.: review of *Meteorites*, by Robert T. Dodd. v217 p923-924 3 Sep 82.
- Watanabe, Kyoichi A. See Saito, Yutaka.
- Watkins, W. D. See Michelassi, F.
- Watson, Stanley J.; Seidah, Nabil G.; Chrétien, Michel: The carboxy terminus of the precursor to vasopressin and neurophysin: immunocytochemistry in rat brain. v217 p853-855 27 Aug 82.
- Weiner, Denise: Science, engineering, and developing countries (AAAS). v217 p523-524 6 Aug 82.
- Weinreich, Stephen K. See Rossow, William B.
- Welch, Willard M. See Browne, Ronald G.
- Wertz, Philip W. and Downing, Donald T.: Glycolipids in mammalian epidermis: structure and function in the water barrier. v217 p1261-1262 24 Sep 82.
- West, L. Jolyon. See Pendery, Mary L.
- Westrum, Ron: Explaining meteorites (letter). v217 p886 3 Sep 82.
- White, Sheldon H.: review of *Spatial Representation and Behavior Across the Life Span*, edited by Lynn S. Liben, Arthur H. Patterson, and Nora Newcombe. v217 p626-627 13 Aug 82.
- Whitney, J. Barry, III. See Eichler, Eva M.
- Whitten, Barbara L.: review of *Atomic and Molecular Collision Theory*, edited by Franco A. Gianturco. v217 p1029-1030 10 Sep 82.
- Wigdahl, Brian L.; Scheck, Adrienne C.; De Clercq, Erik; Rapp, Fred: High efficiency latency and activation of herpes simplex virus in human cells. v217 p1145-1146 17 Sep 82.
- Wilde, C. D.; Crowther, C. E.; Cowan, N. J.: Diverse mechanisms in the generation of human  $\beta$ -tubulin pseudogenes. v217 p549-552 6 Aug 82.
- Wilkins, Ebtsam S.; Wilkins, Michael G.; El-Genk, Mohamed S.: Solar gel ponds (letter). v217 p982-984 10 Sep 82.
- Wilkins, Michael G. See Wilkins, Ebtsam S.
- Willard, Robert S.: Information services (letter). v217 p586 13 Aug 82.
- Wilson, Allan C. See Cann, Rebecca L.
- Wilson, David B.: review of *John Tyndall*, edited by W. H. Brock, N. D. McMillan, and R. C. Mollan. v217 p529-530 6 Aug 82.
- Winograd, Albert I. See Simmons, David A.
- Withers, Nancy W. See Patterson, Gregory M. L.
- Wolf, Larry L. See Cole, Susan.
- Wolfe, Linda D.; Gray, J. Patrick; Robinson, John G.; Lieberman, Leslie S.; Peters, Elizabeth H.: Models of human evolution (letter). v217 p302 23 July 82.
- Wolman, Sandra R. See Talmadge, James E.
- Wood, James W.: Models of human evolution (letter). v217 p296, 298, 302 23 July 82.
- Wrather, Joan: "Report on Science" reaches millions with daily radio broadcasts (AAAS). v217 p44 2 July 82.
- Wysor, Michael S.; Zwelling, Leonard A.; Sanders, James E.; Grenan, Marie M.: Cure of mice infected with *Trypanosoma rhodesiense* by *cis*-diamminedichloroplatinum (II) and disulfiram rescue. v217 p454-456 30 July 82.

## Y and Z

- Yalow, Rosalyn S.: Potassium iodide distribution (letter). v217 p295 23 July 82.
- Yamamoto, Naoki; Okada, Morihisa; Koyanagi, Yoshio; Kannagi, Mari; Hinuma, Yorio: Transformation of human leukocytes by co-cultivation with an adult T cell leukemia virus producer cell line. v217 p737-739 20 Aug 82.
- Yanagihara, Richard T. See Perl, Daniel P.
- Yancey, Paul H.; Clark, Mary E.; Hand, Steven C.; Bowlus, R. David; Somero, George N.: Living with water stress: evolution of osmolyte systems. v217 p1214-1222 24 Sep 82.
- Yee, Gene. See Tritton, Thomas R.
- Yoo, T. J.; Stuart, J. M.; Kang, A. H.; Townes, A. S.; Tomoda, K.; Dixit, S.: Type II collagen autoimmunity in otosclerosis and Meniere's disease. v217 p1153-1155 17 Sep 82.
- Young, James B. See Einhorn, Daniel.
- Younkin, Donald. See Gur, Ruben C.
- Yourd, R. B. See Alonso, J. R.
- Yu, Ning Y. See Bump, Edward A.
- Yung, Yuk L. See DeMore, W. B.
- Zagon, Ian S. See Pegg, Anthony E.
- Zakon, Harold H. See Meyer, J. Harlan.
- Zapol, W. M. See Michelassi, F.
- Zatz, Martin. See Nestler, Eric J. See also Takahashi, Joseph S.
- Zelenka, Peggy S.; Beebe, David C.; Feagans, Douglas E.: Transmethylation of phosphatidylethanolamine: initial event in embryonic chicken lens fiber cell differentiation. v217 p1265-1267 24 Sep 82.
- Zwelling, Leonard A. See Wysor, Michael S.