
SCIENCE

Author Index to Volume 210

October–December 1980

Editorial Board

RICHARD E. BALZHISER
PETER BELL
WALLACE S. BROECKER
BRYCE CRAWFORD, JR.
E. PETER GEIDUSCHEK
EMIL W. HAURY
SALLY G. KOHLSTEDT
CLEMENT L. MARKERT
MANCUR OLSON

FRANK W. PUTNAM
PETER H. RAVEN
BRYANT W. ROSSITER
VERA C. RUBIN
MAXINE F. SINGER
WILLIAM P. SLICHTER
PAUL E. WAGGONER
F. KARL WILLENBROCK
FREDERIC G. WORDEN

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 1980 by the American Association for the Advancement of Science

A

- Abelson, Philip H. (editorials): America's vanishing lead in electronics. v210 p1079 5 Dec 80. Electronic data base. v210 p593 7 Nov 80. Electronics and scientific communication. v210 p255 17 Oct 80. Science and engineering education. v210 p965 28 Nov 80. World energy in transition. v210 p1311 19 Dec 80.
- Abugov, Robert. See Michod, Richard E.
- Adams, J. A. See Bacastow, R. B.
- Ahn, H.; Pritchep, L.; John, E. R.; Baird, H.; Trepetin, M.; Kaye, H.: Developmental equations reflect brain dysfunctions. v210 p1259-1262 12 Dec 80.
- Ahn, H. See John, E. R.
- Akil, Huda. See Walker, J. Michael.
- Alderman, Frances R. See Gitelman, Hillel J.
- Alger, B. E. and Nicoll, R. A.: Epileptiform burst after hyperpolarization: calcium-dependent potassium potential in hippocampal CA1 pyramidal cells. v210 p1122-1124 5 Dec 80.
- Alkon, Daniel L.: Membrane depolarization accumulates during acquisition of an associative behavioral change. v210 p1375-1376 19 Dec 80.
- Alkon, Daniel L. See Farley, Joseph.
- Allen, J. Norman. See Tuber, David S.
- Amado, Ralph D.: review of *Theory of Meson Interactions with Nuclei*, by Judah M. Eisenberg and Daniel S. Koltun. v210 p1241-1242 12 Dec 80.
- Amatruda, John M. See Caro, Jose F.
- Amherdt, M. See Orci, L.
- Anderson, Douglas C.: review of *The First Americans*, edited by William S. Laughlin and Albert B. Harper. v210 p1339-1340 19 Dec 80.
- Anderson, F. See Hovis, W. A.
- Anderson, R. R. See Holick, M. F.
- Anderson, Roy M. and May, Robert M.: Infectious diseases and population cycles of forest insects. v210 p658-661 7 Nov 80.
- Andrews, Catherine C. See Ray, Thomas A.
- Ancombe, Francis J.: review of *R. A. Fisher: An Appreciation*, edited by S. E. Fienberg and D. V. Hinkley. v210 p180 10 Oct 80.
- Antelman, Seymour M. See Chiodo, Louis A.
- Aran, Jean-Marie. See Cazals, Yves.
- Armstrong, John R. See Hirst, Eric.
- Arnold, Arthur P. See Breedlove, S. Marc.
- Ashkin, A.: Applications of laser radiation pressure. v210 p1081-1088 5 Dec 80.
- Asprey, Jo-Anne M. See Carroll, Paul T.
- Austin, R. W. See Hovis, W. A.
- Bardsley, J. N.: review of *Electron-Molecule Scattering*, edited by Sanborn C. Brown. v210 p1005 28 Nov 80.
- Barlow, Robert B., Jr.; Chamberlain, Steven C.; Levinson, John Z.: *Limulus* brain modulates the structure and function of the lateral eyes. v210 p1037-1039 28 Nov 80.
- Barreiro, Barbara A. See Tilton, George R.
- Bartolome, Jorge; Huguenard, John; Slotkin, Theodore A.: Role of ornithine decarboxylase in cardiac growth and hypertrophy. v210 p793-794 14 Nov 80.
- Batsakis, John G. See Howard, Donald R.
- Baulieu, E. E. See El-Etr, M.
- Baylin, Stephen B. See Luk, Gordon D.
- Baylis, Jeffrey R.: review of *Diversity and Adaptation in Fish Behaviour*, by Miles H. A. Keenleyside. v210 p182 10 Oct 80.
- Bearden, Larry J. See Snead, O. Carter, III.
- Beatty, Jackson. See Parasuraman, Raja.
- Beaudoin, Allan R. See Lane, Geoffrey A.
- Becklin, E. E. See Sinton, W. M.
- Belser, William L., Jr. See Pitts, James N., Jr.
- Benbow, Camilla Persson and Stanley, Julian C.: Sex differences in mathematical ability: fact or artifact? v210 p1262-1264 12 Dec 80.
- Benoit, C. See Ciavatti, M.
- Bentsch, C. S. See Hovis, W. A.
- Benziman, M. See Haigler, Candace H.
- Berg, Raissa; Engels, William R.; Kreber, Robert A.: Site-specific X-chromosome rearrangements from hybrid dysgenesis in *Drosophila melanogaster*. v210 p427-429 24 Oct 80.
- Bergland, R.; Blume, H.; Hamilton, A.; Monica, P.; Paterson, R.: Adrenocorticotrophic hormone may be transported directly from the pituitary to the brain. v210 p541-543 31 Oct 80.
- Berglund, Cicely. See Nowinski, Robert.
- Bergot, B. John; Jamieson, Gene C.; Ratcliff, Milton A.; Schooley, David A.: JH zero: new naturally occurring insect juvenile hormone from developing embryos of the tobacco hornworm. v210 p336-338 17 Oct 80.
- Bernstein, Irwin. See Nowinski, Robert.
- Berntson, Gary G. See McGivern, Robert F. See also Tuber, David S.
- Bezila, Robert: Cryptography research funding (letter). v210 p134, 136 10 Oct 80.
- Bhattacharya, J. and Staub, N. C.: Direct measurement of microvascular pressures in the isolated perfused dog lung. v210 p327-328 17 Oct 80.
- Biggley, William H. See Lall, Abner B.
- Birch, A. G. See McConnachie, P. R.
- Bissell, Michael. See Diamond, Marian C.
- Black, Ira B. See Jonakait, G. Miller.
- Blackwood, M. See Lovegrove, W. J.
- Blake, Jules: OSTP: the last 4 years (letter). v210 p1199 12 Dec 80.
- Blank, I. H. See Holick, M. F.
- Blass, Elliot M. and Teicher, Martin H.: Suckling. v210 p15-22 3 Oct 80.
- Blendis, L. M. See Makowka, L.
- Blomquist, Gary J. See Howard, Ralph W.
- Blume, H. See Bergland, R.
- Blythe, William B. See Gitelman, Hillel J.
- Bodoia, Rodgers: Bad news: is it true? (letter). v210 p1301 19 Dec 80.
- Bohn, Martha C. See Jonakait, G. Miller.
- Bolaffi, Janice L.; Reichlin, Seymour; Goodman, David B. P.; Forrest, John N., Jr.: Somatostatin: occurrence in urinary bladder epithelium and renal tubules of the toad, *Bufo marinus*. v210 p644-646 7 Nov 80.
- Borowitzka, Lesley J.; Demmerle, Susanne; Mackay, Mark A.; Norton, Raymond S.: Carbon-13 nuclear magnetic resonance study of osmoregulation in a blue-green alga. v210 p650-651 7 Nov 80.
- Bothner, Michael H. and Spiker, Elliott C.: Upper Wisconsinian till recovered on the continental shelf southeast of New England. v210 p423-425 24 Oct 80.
- Bowling, A. See Lovegrove, W. J.
- Brandeis, Leslie D. See Johnson, Eugene M., Jr.
- Breedlove, S. Marc and Arnold, Arthur P.: Hormone accumulation in a sexually dimorphic motor nucleus of the rat spinal cord. v210 p564-566 31 Oct 80.
- Brenner, Milton A. See Sterling, Kenneth.
- Breslow, Gail J.: Mass Media Science Fellows report on summer experiences (AAAS). v210 p629-630 7 Nov 80.
- Brewster, Frank E. See Sullivan, John L.
- Bright, William: review of *The Languages of Native America*, edited by Lyle Campbell and Marianne Mithun. v210 p315-316 17 Oct 80.
- Briley, M. See Langer, S. Z.
- Brittain, James E.: review of *A Centennial History of the American Society of Mechanical Engineers*, by Bruce Sinclair, and *Seven Decades That Changed America*, by Robert E. Steward. v210 p529-530 31 Oct 80.
- Broad, William J. (news and comment): African to head international council. v210 p168 10 Oct 80. Case of the missing milk bottles. v210 p168-169 10 Oct 80. The case of the unmentioned malignancy. v210 p1229-1230 12 Dec 80. Charges of piracy follow Alsabti. v210 p 291 17 Oct 80. Federal review of DNA research to shrink. v210 p169 10 Oct 80. Imbroglio at Yale (I): emergence of a fraud. v210 p38-41 3 Oct 80. Imbroglio at Yale (II): a top job lost. v210 p171-173 10 Oct 80. Magnet failures imperil new accelerator. v210 p875-878 21 Nov 80. Philosophers at the Pentagon. v210 p409-410, 412 24 Oct 80. Resource wars: the lure of South Africa. v210 p1099-1100 5 Dec 80. Third World science vies for petro dollars. v210 p169 10 Oct 80. Upstart television: postponing a threat. v210 p611-612, 614-615 7 Nov 80.
- Brodwick, Malcolm S. See Horn, Richard.
- Brooks, Jerry R. See Freidinger, Roger M.
- Bross, Irwin D. J.: Bladder cancer and artificial sweeteners: a methodological issue (technical comment). v210 p447 24 Oct 80.
- Brower, K. R. See Criswell, Darrell W.
- Brown, D. See John, E. R.
- Brown, G. E., Jr.: Science advice (letter). v210 p846 21 Nov 80.
- Brown, Herbert C.: From little acorns to tall oaks: from boranes through organoboranes. v210 p485-492 31 Oct 80.
- Brown, R. Malcolm, Jr. See Haigler, Candace H.
- Brune, James N. See Pakiser, L. C.
- Brusilow, Saul. See Kaiser-Kupfer, Muriel I.
- Bumb, R. R.; Crummett, W. B.; Cutie, S. S.; Gledhill, J. R.; Hummel, R. H.; Kagel, R. O.; Lamparski, L. L.; Luoma, E. V.; Miller, D. L.; Nestrick, T. J.; Shadoff, L. A.; Stehl, R. H.; Woods, J. S.: Trace chemistries of fire: a source of chlorinated dioxins. v210 p385-390 24 Oct 80.
- Bunney, Benjamin S. See Grace, Anthony A.
- Bunney, W. E. See Lake, C. R.
- Burr, Robert C. See Fanta, George F.
- Byron, Kevin S. See Sullivan, John L.

B

- Babb, Thomas L. See Halgren, Eric.
- Babu, P. See Siddiqui, Shahid S.
- Bacastow, R. B.; Adams, J. A.; Keeling, C. D.; Moss, D. J.; Whorf, T. P.; Wong, C. S.: Atmospheric carbon dioxide, the southern oscillation, and the weak 1975 El Niño. v210 p66-68 3 Oct 80.
- Bacchi, C. J.; Nathan, H. C.; Hutner, S. H.; McCann, P. P.; Sjoerdsma, A.: Polyamine metabolism: a potential therapeutic target in trypanosomes. v210 p332-334 17 Oct 80.
- Bachman, David S. See Tuber, David S.
- Badcock, D. See Lovegrove, W. J.
- Bailey, J. Martyn. See Whiting, John.
- Baird, H. See Ahn, H.
- Baker, E. T. See Hovis, W. A.
- Baker, R. Robin: Goal orientation by blindfolded humans after long-distance displacement: possible involvement of a magnetic sense. v210 p555-557 31 Oct 80.
- Bakke, Jerome E.; Gustafsson, Jan-Ake; Gustafsson, Bengt E.: Metabolism of propachlor by the germfree rat. v210 p433-435 24 Oct 80.
- Ball, D. See Hovis, W. A.
- Ballenger, J. C. See Lake, C. R.
- Banks, Harlan P.: review of *The Fossil Hunters*, by Henry N. Andrews. v210 p316-317 17 Oct 80.

C

- Camerman, Arthur. See Mastropaolo, Donald.
- Camerman, Norman. See Mastropaolo, Donald.
- Canalis, Ernesto; Peck, William A.; Raisz, Lawrence G.: Stimulation of DNA and collagen synthesis by autologous growth factor in cultured fetal rat calvaria. v210 p1021-1023 28 Nov 80.
- Cannon, Joseph G. See Goodale, David B.
- Caramazza, Alfonso. See McCloskey, Michael.
- Carey, William D. (editorials): Drift and danger in U.S.-Soviet relations. v210 p383 24 Oct 80. Science policy: new directions? v210 p849 21 Nov 80.
- Caro, Jose F. and Amatruda, John M.: Insulin receptors in hepatocytes: postreceptor events mediate down regulation. v210 p1029-1031 28 Nov 80.
- Carpenter, Graham: Epidermal growth factor

- is a major growth-promoting agent in human milk. v210 p198-199 10 Oct 80.
- Carroll, Paul T. and Aspry, Jo-Anne M.: Sub-cellular origin of cholinergic transmitter release from mouse brain. v210 p641-642 7 Nov 80.
- Carter, Luther J. (news and comment): Debate over waste imperils 3-Mile cleanup. v210 p166-168 10 Oct 80. Hayes makes sunshine at SERI. v210 p408-409 24 Oct 80.
- Cazals, Yves; Aran, Jean-Marie; Erre, Jean-Paul; Guilhaume, Anne: Acoustic response after total destruction of the cochlear receptor: brainstem and auditory cortex. v210 p83-86 3 Oct 80.
- Challifour, John L.: review of *Field Theoretical Methods in Particle Physics*, edited by Werner Rühl. v210 p180-181 10 Oct 80.
- Chamberlain, Steven C. See Barlow, Robert B., Jr.
- Chang, Esther H.; Ellis, Ronald W.; Scolnick, Edward M.; Lowy, Douglas R.: Transformation by cloned Harvey murine sarcoma virus DNA: efficiency increased by long terminal repeat DNA. v210 p1249-1251 12 Dec 80.
- Chaplin, E. R. See Salamy, A.
- Chen, Neal J. and Squire, Larry R.: Preserved learning and retention of pattern-analyzing skill in amnesia: dissociation of knowing how and knowing that. v210 p207-210 10 Oct 80.
- Cheney, Dorothy L. See Seyfarth, Robert M.
- Chertkoff, Jerome M.: review of *Social Exchange*, edited by Kenneth J. Gergen, Martin S. Greenberg, and Richard H. Willis. v210 p891 21 Nov 80.
- Chiodo, Louis A. See Saller, Charles F.
- Chiodo, Louis A. and Antelman, Seymour M.: Electroconvulsive shock: progressive dopamine autoreceptor subsensitivity independent of repeated treatment. v210 p799-801 14 Nov 80.
- Ciavatti, M.; Dumont, E.; Benoit, C.; Renaud, S.: Oral contraceptives, lanosterol, and platelet hyperactivity in rat. v210 p642-644 7 Nov 80.
- Clamann, H. P. See Stein, Barry E.
- Clark, Dennis K. See Gordon, Howard R. See also Hovis, W. A.
- Clark, M. B. See Holick, M. F.
- Clarke, John F.: The next step in fusion: what it is and how it is being taken. v210 p967-972 28 Nov 80.
- Cloud, Preston; Gustafson, L. B.; Watson, J. A. L.: The works of living social insects as pseudofossils and the age of the oldest known Metazoa. v210 p1013-1015 28 Nov 80.
- Cloud, Preston and Lajoie, Kenneth R.: Calcite-impregnated defluiddization structures in littoral sands of Mono Lake, California. v210 p1009-1012 28 Nov 80.
- Cobb, Melanie H. See Jefferson, Douglas M.
- Cohen, Fredric S. See Zimmerberg, Joshua.
- Cohen, Peter J. See Lane, Geoffrey A.
- Condit, Carl W.: review of *The Engineering Drawings of Benjamin Henry Latrobe*, edited by Darwin H. Stepleton. v210 p56-57 3 Oct 80.
- Connor, James R., Jr. See Diamond, Marian C.
- Constanza, Robert: Embodied energy and economic valuation. v210 p1219-1224 12 Dec 80.
- Cooney, Marion. See Nowinski, Robert.
- Cooper, Robert G., Jr. See Starkey, Prentice.
- Corash, Laurence. See Piomelli, Sergio.
- Corash, Michele Beigel. See Piomelli, Sergio.
- Cort, J. H.: Arginine vasopressin in extracts of bovine pituitary (technical comment). v210 p1377 19 Dec 80.
- Cotton, Calvin U. See Harden, T. Kendall.
- Cowan, G. A. See Haxton, W. C.
- Cowgill, George L.: Bad news: is it true? (letter). v210 p1305 19 Dec 80.
- Crandall, Paul H. See Halgren, Eric.
- Crawford, Robert. See Hobart, Peter M.
- Criswell, Darrell W.; McClure, F. L.; Schafer,

- Rollie; Brower, K. R.: War gases as olfactory probes. v210 p425-426 24 Oct 80.
- Croce, Carlo. See Koprowski, Hilary.
- Crozier, Ralph: review of *American Science and Modern China, 1876-1936*, by Peter Buck. v210 p779 14 Nov 80.
- Cruickshank, Alexander M.: Gordon Research Conferences. v210 p449-452 24 Oct 80.
- Crummett, W. B. See Bumb, R. R.
- Culliton, Barbara J. (news and comment): Carter on continuous creation...; Reagan on intermittent astrology. v210 p35 3 Oct 80. Frank Press in line for academy presidency. v210 p37 3 Oct 80. Frank Press to be nominated for NAS. v210 p405-406 24 Oct 80.
- Cummins, Larry B. See Mukai, Noritsugu.
- Cunningham, Glen A. See Epstein, Emanuel.
- Currey, Bruce See Street, John M.
- Cutie, S. S. See Bumb, R. R.
- Cynader, Max. See Harris, Laurence R.
- Czech, Michael P. See Pilch, Paul F.
- Czeisler, Charles A.; Weitzman, Elliot D.; Moore-Ede, Martin C.; Zimmerman, Janet C.; Knauer, Richard S.: Human sleep: its duration and organization depend on its circadian phase. v210 p1264-1267 12 Dec 80.

D

- Dacey, John W. H.: Internal winds in water lilies: an adaptation for life in anaerobic sediments. v210 p1017-1019 28 Nov 80.
- Damman, Antoni W. H.: review of *Ecology of a Subarctic Mire*, edited by M. Sonesson. v210 p1118-1119 5 Dec 80.
- Darzynkiewicz, Z. See Evenson, D. P.
- Davies, John N. See Sykes, Lynn R.
- Davis, D. M. See Rockley, M. G.
- Davis, Michael J.; Gillaspie, A. Graves, Jr.; Harris, Russell W.; Lawson, Roger H.: Ratoon stunting disease of sugarcane: isolation of the causal bacterium. v210 p1365-1367 19 Dec 80.
- Davis, Wayne H.: Bad news: is it true? (letter). v210 p1304-1305 19 Dec 80.
- deBoth, N. J. See Sytkowski, Arthur J.
- de Monasterio, Francisco M. See Kaiser-Kupfer, Muriel I.
- Dee, Robert F.: A way to stimulate technological innovation (editorial). v210 p483 31 Oct 80.
- Delcomyn, Fred: Neural basis of rhythmic behavior in animals. v210 p492-498 31 Oct 80.
- Delcourt, Hazel R. and Harris, W. F.: Carbon budget of the southeastern U.S. biota: analysis of historical change in trend from source to sink. v210 p321-323 17 Oct 80.
- DeIpezzo, Elizabeth M. and Hoffman, Howard S.: Attentional factors in the inhibition of a reflex by a visual stimulus. v210 p673-674 7 Nov 80.
- Demmerie, Susanne. See Borowitzka, Lesley.
- Desjardins, Claude. See Graham, J. M.
- Diamond, Marian C.; Connor, James R., Jr.; Orenberg, Elaine K.; Bissell, Michael; Yost, Michael; Krueger, Albert: Environmental influences on serotonin and cyclic nucleotides in rat cerebral cortex. v210 p652-654 7 Nov 80.
- Dickey, W. Daryl. See Horn, Richard.
- Di Ferrante, Nicola: N-Acetylglucosamine-6-sulfate sulfatase deficiency reconsidered (technical comment). v210 p448 24 Oct 80.
- Dinh, Diep T. See Reiter, Russel J.
- Doane, William M. See Fanta, George F.
- Dodson, Peter: review of *Fossils in the Making*, edited by Anna K. Behrensmeyer and Andrew P. Hill. v210 p631-632 7 Nov 80.
- Drachman, Daniel B. See Pestronk, Alan.
- Dubocovich, M. L. See Langer, S. Z.
- Dumont, E. See Ciavatti, M.
- Dunham, David W.; Sofia, Sabatino; Fiala, Alan D.; Herald, David; Muller, Paul M.: Observations of a probable change in the solar radius between 1715 and 1979. v210 p1243-1245 12 Dec 80.
- Dunwiddie, Thomas. See Sorensen, Steve.

E

- Edidin, Michael: review of *The Cell Surface*, edited by Stephen Subtelny and Norman K. Wessells. v210 p57-58 3 Oct 80.
- Egan, Robert W. See Kuehl, Frederick A., Jr.
- Ehleringer, James and Forseth, Irwin: Solar tracking by plants. v210 p1094-1098 5 Dec 80.
- Ehrlich, Anne H. See Holdren, John R.
- Ehrlich, Paul R. See Holdren, John R.
- El-Etr, M.; Schorderet-Slatkine, S.; Baulieu, E. E.: The role of zinc and follicle cells in insulin-initiated meiotic maturation of *Xenopus laevis* oocytes (technical comment). v210 p929-930 21 Nov 80.
- Elias, P. See Holick, M. F.
- Elin, Ronald J.: Instrumentation in clinical chemistry. v210 p286-289 17 Oct 80.
- Ellis, Ronald W. See Chang, Esther H.
- El-Sayed, S. Z. See Hovis, W. A.
- Engels, William R. See Berg, Raissa.
- Epstein, Emanuel; Norlyn, Jack D.; Rush, Dale W.; Kingsbury, Ralph W.; Kelley, David B.; Cunningham, Glen A.; Wrona, Anne F.: Saline cultures of crops: a genetic approach. v210 p399-404 24 Oct 80.
- Epstein, Max: Endoscopy: developments in optical instrumentation. v210 p280-285 17 Oct 80.
- Erre, Jean-Paul. See Cazals, Yves.
- Evenson, D. P.; Darzynkiewicz, Z.; Melamed, M. R.: Relation of mammalian sperm chromatin heterogeneity to fertility. v210 p1131-1133 5 Dec 80.

F

- Falk, J. A. See Makowka, L.
- Falk, R. E. See Makowka, L.
- Fanale, Fraser P. See Nelson, Robert M.
- Fanger, Michael. See Warren, Stephen L.
- Fanta, George F.; Burr, Robert C.; Orton, William L.; Doane, William M.: Liquid-phase dehydration of aqueous ethanol-gasoline mixtures. v210 p646-647 7 Nov 80.
- Farley, Joseph and Alkon, Daniel L.: Neural organization predicts stimulus specificity for a retained associative behavioral change. v210 p1373-1375 19 Dec 80.
- Faure, H.; Fontes, J. C.; Hebrard, L.; Montillet, J.; Pirazzoli, P. A.: Geoidal change and shore-level tilt along Holocene estuaries: Senegal River area, West Africa. v210 p421-423 24 Oct 80.
- Ferguson, Bonnie N. See Reiter, Russel J.
- Ferguson, Marian. See Hulett, L. D., Jr.
- Fiala, Alan D. See Dunham, David W.
- Fincham, J. R. S.: review of *Genetic Recombination*, by Franklin W. Stahl. v210 p316 17 Oct 80.
- Finger, Thomas E.: Nonolfactory sensory pathway to the telecephalon in a teleost fish. v210 p671-673 7 Nov 80.
- Finkelstein, Alan. See Zimmerberg, Joshua.
- First, Melvin W.: Effects of air ions (letter). v210 p714, 716 14 Nov 80.
- Fishman, J. and Tulchinsky, D.: Suppression of prolactin secretion in normal young women by 2-hydroxyestrone. v210 p73-74 3 Oct 80.
- Flynn, Jan R. See Goodale, David B.
- Fontes, J. C. See Faure, H.
- Forrest, John N., Jr. See Bolaffi, Janice L.
- Forseth, Irwin. See Ehleringer, James.
- Foster, Robert E.; Whalen, Christopher C.; Waxman, Stephen G.: Reorganization of the axon membrane in demyelinated peripheral nerve fibers: morphological evidence. v210 p661-663 7 Nov 80.
- Fotino, Marilena: Kidney transplants (letter). v210 p378-379 24 Oct 80.
- Fourtner, Charles R. See Ritzmann, Roy E.
- Fox, C. Fred. See Wrann, Michael.
- Fox, Michael W.: Antibiotics in animal feeds (letter). v210 p376 24 Oct 80.
- Fraley, Robert T. See Heath, Timothy D.
- Freidinger, Roger M.; Veber, Daniel F.; Per-

- low, Debra Schwenk; Brooks, Jerry R.; Saperstein, Richard: Bioactive conformation of luteinizing hormone-releasing hormone: evidence from a conformationally constrained analog. v210 p656-658 7 Nov 80.
 Fujii, Naoyuki. See Wakita, Hiroshi.
 Fuller, Gary A. See Street, John M.
 Furcinitti, Paul S. and Todd, Paul: Gamma rays and the concept of a threshold dose (technical comment). v210 p806-807 14 Nov 80.
 Futuyma, Douglas J. and Wasserman, Steven S.: Resource concentration and herbivory in oak forests. v210 p920-922 21 Nov 80.

G

- Gajdusek, D. C. See Sotelo, J.
 Gambert, Steven R.; Garthwaite, Thomas L.; Pontzer, Carol H.; Hagen, Thad C.: Fasting associated with decrease in hypothalamic β -endorphin. v210 p1271-1272 12 Dec 80.
 Gans, Carl and Gorniak, Gerard C.: Electromyograms are repeatable: precautions and limitations. v210 p795-797 14 Nov 80.
 Garrison, B. See Maggiora, G. M.
 Garthwaite, Thomas L. See Gambert, Steven R.
 Gash, Don; Sladek, John R., Jr.; Sladek, Celia D.: Functional development of grafted vasopressin neurons. v210 p1367-1369 19 Dec 80.
 Gatley, I. See Sinton, W. M.
 Gaunt, Sandra L. L.: Thermoregulation in doves (Columbidae): a novel esophageal heat exchanger. v210 p445-447 24 Oct 80.
 Geffer, Malcolm: review of *Monoclonal Antibodies*, edited by Roger H. Kennett, Thomas J. McKearn, and Kathleen B. Bechtol. v210 p317 17 Oct 80.
 Gennaro, Joseph F., Jr. See Jefferson, Douglas M.
 Gentry, A. H. and Lopez-Parodi, J.: Deforestation and increased flooding of the upper Amazon. v210 p1354-1356 19 Dec 80.
 Gern, William A. See Roth, Jan J.
 Gershon, Samuel. See Mann, J. John.
 Giamatti, A. Bartlett: Science and the universality. v210 p984-987 28 Nov 80.
 Gibbons, Robert C. See Iwasa, Kunihiro.
 Gibbs, C. J., Jr. See Sotelo, J.
 Gilbert, B. K. See Ritman, E. L.
 Gillaspie, A. Graves, Jr. See Davis, Michael J.
 Gintzler, Alan R.: Endorphin-mediated increases in pain threshold during pregnancy. v210 p193-195 10 Oct 80.
 Gitelman, Hillel J.; Klapper, D. G.; Alderman, Frances R.; Blythe, William B.: Arginine vasopressin in extracts of bovine pituitary (technical comment). v210 p1377 19 Dec 80.
 Gladstone, G. Randall. See Pinto, Joseph P.
 Glaser, Edward M.: Participatory management (letter). v210 p962 28 Nov 80.
 Glashow, Sheldon Lee: Toward a unified theory: threads in a tapestry. v210 p1319-1323 19 Dec 80.
 Gledhill, J. R. See Bumb, R. R.
 Glover, Barbara. See Piomelli, Sergio.
 Goldberg, S. J. See Stein, Barry E.
 Golden, William T.: PSAC: reestablish it now (editorial). v210 p145 10 Oct 80.
 Goldhaber, M.; Langacker, P.; Slansky, R.: Is the proton stable? v210 p851-860 21 Nov 80.
 Goldstein, Avram. See Romano, Carmelo.
 Goodale, David B.; Rusterholz, David B.; Long, John P.; Flynn, Jan R.; Walsh, Brian; Cannon, Joseph G.; Lee, Teresa: Neurochemical and behavioral evidence for a selective presynaptic dopamine receptor agonist. v210 p1141-1143 5 Dec 80.
 Goodman, David B. P. See Bolaffi, Janice L.
 Goodwin, Frederick G. See Lewy, Alfred J.
 Gordon, H. R. See Hovis, W. A.
 Gordon, Howard R.; Clark, Dennis K.; Mueller, James L.; Hovis, Warren A.: Phytoplankton pigments from the Nimbus-7 Coastal Zone Color Scanner: comparisons with surface measurements. v210 p63-66 3 Oct 80.
 Gorin, Pamela D. See Johnson, Eugene M., Jr.
 Gorniak, Gerard C. See Gans, Carl.
 Grace, Anthony A. and Bunney, Benjamin S.: Nigral dopamine neurons: intracellular recording and identification of L-dopa injection and histofluorescence. v210 p654-656 7 Nov 80.
 Graham, J. M. and Desjardins, Claude: Classical conditioning: induction of luteinizing hormone and testosterone secretion in anticipation of sexual activity. v210 p1039-1041 28 Nov 80.
 Grant, Michael C. See Lewis, William M., Jr.
 Green, Bert. See McCloskey, Michael.
 Guilhaume, Anne. See Cazals, Yves.
 Guillemot, Jean-Paul. See Harris, Laurence R.
 Gustafson, L. B. See Cloud, Preston.
 Gustafsson, Bengt E. See Bakke, Jerome E.
 Gustafsson, Jan-Ake. See Bakke, Jerome E.

H

- Hagen, Thad C. See Gambert, Steven R.
 Hagstrom S. See Maggiora, G. M.
 Haigler, Candace H.; Brown, R. Malcolm, Jr.; Benziman, M.: Calcofluor White ST alters the in vivo assembly of cellulose microfibrils. v210 p903-906 21 Nov 80.
 Hakomori, Sen-itiroh. See Nowinski, Robert.
 Halgren, Eric; Squires, Nancy K.; Wilson, Charles L.; Rohrbach, John W.; Babb, Thomas L.; Crandall, Paul H.: Endogenous potentials generated in the human hippocampal formation and amygdala by infrequent events. v210 p803-805 14 Nov 80.
 Hamasaki, Yuhei. See Matsuzaki, Yoshikazu.
 Hamilton, A. See Bergland, R.
 Harden, T. Kendall; Cotton, Calvin U.; Waldo, Gary L.; Lutton, John K.; Perkins, John P.: Catecholamine-induced alteration in sedimentation behavior of membrane bound β -adrenergic receptors. v210 p441-443 24 Oct 80.
 Harris, L. D. See Ritman, E. L.
 Harris, Laurence R.; Lepore, Franco; Guillemot, Jean-Paul; Cynader, Max: Abolition of optokinetic nystagmus in the cat. v210 p91-92 3 Oct 80.
 Harris, Russell W. See Davis, Michael J.
 Harris, W. F. See Delcourt, Hazel R.
 Harrison, Anna J.: Social, economic, and political leadership (editorial). v210 p93 Oct 80.
 Harte, John. See Holdren, John R.
 Harvey, H. R. and Williams, B. J.: Aztec arithmetic: positional notation and area calculation. v210 p499-505 31 Oct 80.
 Haxton, W. C. and Cowan, G. A.: Solar neutrino production of long-lived isotopes and secular variations in the sun. v210 p897-899 21 Nov 80.
 Hayden, Shawn A.; Mills, John W.; Masland, Richard M.: Acetylcholine synthesis by displaced amacrine cells. v210 p435-437 24 Oct 80.
 Haynes, C. Vance: Geochronology of Wadi Tushka: lost tributary of the Nile. v210 p68-71 3 Oct 80.
 Heath, Timothy D.; Fraley, Robert T.; Papa-hadjopoulos, Demetrios: Antibody targeting of liposomes: cell specificity obtained by conjugation of F(ab)₂ to vesicle surface. v210 p539-541 31 Oct 80.
 Hebrard, L. See Faure, H.
 Herald, David. See Dunham, David W.
 Herman, Yvonne. See Worsley, Thomas R.
 Herschman, Arthur: Foreign travel (AAAS). v210 p763 14 Nov 80.
 Heusser, Calvin J. and Heusser, Linda E.: Sequence of pumiceous tephra layers and the late Quaternary environmental record near Mount St. Helens. v210 p1007-1009 28 Nov 80.
 Heusser, Calvin J. and Streeter, S. Stephen: A temperature and precipitation record of the past 16,000 years in southern Chile. v210 p1345-1347 19 Dec 80.
 Heusser, Linda E. See Heusser, Calvin J.
 Hickey, Leo J.: Paleontologists and continental drift (letter). v210 p1200 12 Dec 80.
 Hildebrand, R. H. See Whitcomb, S. E.
 Hill, Lucius. See Nowinski, Robert.
 Hirst, Eric and Armstrong, John R.: Managing state energy conservation programs: the Minnesota experience. v210 p740-744 14 Nov 80.
 Hobart, Peter M.; Shen, Lu-Ping; Crawford, Robert; Pictet, Raymond L.; Rutter, William J.: Comparison of the nucleic acid sequence of anglerfish and mammalian insulin mRNA's from cloned cDNA's. v210 p1360-1363 19 Dec 80.
 Hoffer, Barry. See Sorensen, Steve.
 Hoffman, Howard S. See DelPezzo, Elizabeth.
 Högstädt, Göran: Evolution of clutch size in birds: adaptive variation in relation to territory quality. v210 p1148-1150 5 Dec 80.
 Holden, Constance (news and comment): Anderson pushes conservation. v210 p165 10 Oct 80. Anderson stresses conventional arms. v210 p30 3 Oct 80. Doctors must put patients first, says editors. v210 p612-613 7 Nov 80. Innovation: Japan races ahead as U.S. falters. v210 p751-754 14 Nov 80. A new visibility for gifted children. v210 p879-880, 882 21 Nov 80. OMB offers option on A-21. v210 p612 7 Nov 80. The Reagan years: environmentalists tremble. v210 p988-989, 991 28 Nov 80. Scientist with unpopular data loses job. v210 p749-750 14 Nov 80. Turkic tribe seeks Alaskan peaks as home. v210 p613 7 Nov 80.
 Holdren, John P.; Ehrlich, Paul R.; Ehrlich, Anne H.; Harte, John: Bad news: is it true? (letter). v210 p1296, 1298-1299, 1301 19 Dec 80.
 Holick, M. F.; MacLaughlin, J. A.; Clark, M. B.; Holick, S. A.; Potts, J. T., Jr.; Anderson, R. R.; Blank, I. H.; Parrish, J. A.; Elias, P.: Photosynthesis of previtamin D₃ in human skin and the physiologic consequences. v210 p203-205 10 Oct 80.
 Holick, S. A. See Holick, M. F.
 Hölldobler, Bert: Canopy orientation: a new kind of orientation in ants. v210 p86-88 3 Oct 80.
 Hölldobler, Bert and Lumsden, Charles J.: Territorial strategies in ants. v210 p732-739 14 Nov 80.
 Holling, C. S.: review of *Evolutionary Biology of Parasites*, by Peter W. Price. v210 p1240-1241 12 Dec 80.
 Horn, Richard; Brodwick, Malcolm S.; Dickey, W. Daryl: Asymmetry of the acetylcholine channel revealed by quaternary anesthetics. v210 p205-207 10 Oct 80.
 Horwitz, B. A. See Yatvin, M. B.
 Hounsfield, Godfrey N.: Computed medical imaging. v210 p22-28 3 Oct 80.
 House, Leigh. See Sykes, Lynn R.
 Hovis, W. A.; Clark, D. K.; Anderson, F.; Austin, R. W.; Wilson, W. H.; Baker, E. T.; Ball, D.; Gordon, H. R.; Mueller, J. L.; El-Sayed, S. Z.; Sturm, B.; Wrigley, R. C.; Yentsch, C. S.: Nimbus-7 Coastal Zone Color Scanner: system description and initial imagery. v210 p60-63 3 Oct 80.
 Hovis, Warren A. See Gordon, Howard R.
 Howard, Donald R. and Batsakis, John G.: Cytostructural localization of a tumor-associated antigen. v210 p201-203 10 Oct 80.
 Howard, Ralph W.; McDaniel, C. A.; Blomquist, Gary J.: Chemical mimicry as an integrating mechanism: cuticular hydrocarbons of a termitophile and its host. v210 p431-433 24 Oct 80.
 Howe, Henry F. and Vande Kerckhove, Gayle A.: Nutmeg dispersal by tropical birds. v210 p925-927 21 Nov 80.
 Hranitzky, K. W.; Larson, A. D.; Ragsdale, D. W.; Siebeling, R. J.: Isolation of O1 serovars of *Vibrio cholerae* from water by serologically specific method. v210 p1025-1026 28 Nov 80.

- Huguenard, John. See Bartolome, Jorge.
 Hulett, L. D., Jr.; Weinberger, A. J.; Northcutt, K. J.; Ferguson, Marian: Chemical species in fly ash from coal-burning power plants. v210 p1356-1358 19 Dec 80.
 Hummel, R. H. See Bumb, R. R.
 Hung, P. Q. and Quigg, C.: Intermediate bosons: weak interaction couriers. v210 p1205-1211 12 Dec 80.
 Hunter, J. S.: The national system of scientific measurement. v210 p869-874 21 Nov 80.
 Hutner, S. H. See Bacchi, C. J.

I-K

- Idso, Sherwood B.: Carbon dioxide and climate (letter). v210 p7-8 3 Oct 80.
 Ilgen, Thomas L.: review of *Seabrook and the Nuclear Regulatory Commission*, by Donald W. Stever, Jr. v210 p419-420 24 Oct 80.
 Inman, B. R.: Cryptography research funding (letter). v210 p134 10 Oct 80.
 Iwasa, Kunihiko; Tasaki, Ichiji; Gibbons, Robert C.: Swelling of nerve fibers associated with action potentials. v210 p338-339 17 Oct 80.
 Jackson, David D.; Lee, Wook B.; Liu, Chi-Ching: Aseismic uplift in southern California: an alternative interpretation. v210 p534-536 31 Oct 80.
 Jacob, Klaus H. See Sykes, Lynn R.
 Jacobson, Elliott. See Roth, Jan J.
 Jacquet, Yasuko F.: Excitatory and inhibitory effects of opiates in the rat vas deferens: a dual mechanism of opiate action. v210 p95-97 3 Oct 80.
 Jamieson, Gene C. See Bergot, B. John.
 Jarett, Leonard; Schweitzer, John B.; Smith, Robert M.: Insulin receptors: differences in structural organization on adipocyte and liver plasma membranes. v210 p1127-1128 5 Dec 80.
 Jefferson, Douglas M.; Cobb, Melanie H.; Gennaro, Joseph F., Jr.; Scott, Walter N.: Transporting renal epithelium: culture in hormonally defined serum-free medium. v210 p912-914 21 Nov 80.
 John, E. R.; Ahn, H.; Pritchep, L.; Trepetin, M.; Brown, D.; Kaye, H.: Developmental equations for the electroencephalogram. v210 p1255-1258 12 Dec 80.
 John, E. R. See Ahn, H.
 Johnson, Eugene M., Jr.; Gorin, Pamela D.; Brandeis, Leslie D.; Pearson, John: Dorsal root ganglion neurons are destroyed by exposure in utero to maternal antibody to nerve growth factor. v210 p916-918 21 Nov 80.
 Johnson, Linda Y. See Reiter, Russel J.
 Johnson, Torrence V. See Nelson, Robert M.
 Johnston, Bruce F. See Sanderson, Warren.
 Jonakait, G. Miller; Bohn, Martha C.; Black, Ira B.: Maternal glucocorticoid hormones influence neurotransmitter phenotypic expression in embryos. v210 p551-553 31 Oct 80.
 Jordan, Elke: Nucleic acid sequences: data bank (letter). v210 p1074 5 Dec 80.
 Jukes, Thomas H.: Antibiotics in animal feeds (letter). v210 p376, 378 24 Oct 80. Silent nucleotide substitutions and the molecular evolutionary clock. v210 p973-978 28 Nov 80.
 Jumars, Peter A. See Taghon, Gary L.
 Kagel, R. O. See Bumb, R. R.
 Kaiser-Kupfer, Muriel I.; de Monasterio, Francisco M.; Valle, David; Walser, MacKenzie; Brusilow, Saul: Gyrata atrophy of the choroid and retina: improved visual function following reduction of plasma ornithine by diet. v210 p1128-1131 5 Dec 80.
 Kalter, S. S. See Mukai, Noritsugu.
 Kamminga, Johan: review of *Experimental Determination of Stone Tool Uses*, by Lawrence H. Keeley. v210 p58-59 3 Oct 80.
 Kaye, H. See Ahn, H. See also John, E. R.
 Keay, Colin S. L.: Anomalous sounds from the entry of meteor fireballs. v210 p11-15 3 Oct 80.
 Keeling, C. D. See Bacastow, R. B.
 Keene, Jocelyn. See Whitcomb, S. E.
 Kelley, David B. See Epstein, Emanuel.
 Kellogg, William W. See Schneider, Stephen.
 Kelly, Thomas J. and Stedman, Donald H.: Effect of urban sources on acid precipitation in the western United States (technical comment). v210 p1043 28 Nov 80.
 Kennedy, H. E.: Communicating scientific data (letter). v210 p1200 12 Dec 80.
 Kerr, Richard A. (research news): Asteroid theory of extinctions strengthened. v210 p514-517 31 Oct 80. Origins of life: new ingredients suggested. v210 p42-43 3 Oct 80. Rings within rings within rings within. . . v210 p1111-1113 5 Dec 80.
 Kingsbury, Ralph W. See Epstein, Emanuel.
 Kinsey, J. H. See Ritman, E. L.
 Kinzel, Volker; Richards, James; Stöhr, Michael: Tumor promoter TPA mimics irradiation effects on the cell cycle of HeLa cells. v210 p429-431 24 Oct 80.
 Kisslinger, Jerome B. See Sykes, Lynn R.
 Kita, Itsuro. See Wakita, Hiroshi.
 Klapper, D. G. See Gitelman, Hillel J.
 Knauer, Richard S. See Czeisler, Charles A.
 Kolata, Gina Bari (research news): The 1980 Nobel Prize in Chemistry. v210 p887-889 21 Nov 80. How safe is Bendectin? v210 p518-519 31 Oct 80. Hua Lo-Keng shapes Chinese math. v210 p413-414 24 Oct 80. Math and sex: are girls born with less ability? v210 p1234-1235 12 Dec 80. NIH panel urges fewer cesarean births. v210 p176-177 10 Oct 80. Thalassemias: models of genetic diseases. v210 p300-302 17 Oct 80. (news and comment): Study group agrees to voluntary restraints. v210 p511-512 31 Oct 80.
 Kolata, Gina Bari and Wade, Nicholas: Human gene treatment stirs new debate (news and comment). v210 p407 24 Oct 80.
 Kolthoff, I. M.: Dutch or Deutsch? (letter). v210 p590 7 Nov 80.
 Kopin, I. J. See Lake, C. R.
 Koprowski, Hilary and Croce, Carlo: Hybridomas revisited (letter). v210 p248 17 Oct 80.
 Korpman, Ralph A. See Lincoln, Thomas L.
 Korwek, Edward L.: Science and the courts (letter). v210 p376 24 Oct 80.
 Kraft, John C.: Dutch or Deutsch (letter). v210 p590 7 Nov 80.
 Kreber, Robert A. See Berg, Raissa.
 Kreutz, W. See Yatvin, M. B.
 Krueger, Albert. See Diamond, Marian C.
 Krugmann, Hartmut and von Hippel, Frank: Radioactive waste: the problem of plutonium. v210 p319-321 17 Oct 80.
 Kuehl, Frederick A., Jr. and Egan, Robert W.: Prostaglandins, arachidonic acid, and inflammation. v210 p978-984 28 Nov 80.
 Kuhar, Michael J. See Young, W. Scott, III.
 Kuhlman, E. G.: Chestnut blight (letter). v210 p1199-1200 12 Dec 80.
 Kuntz, I. D., Jr.: review of *Protein Folding*, edited by Rainer Jaenicke. v210 p420 24 Oct 80.
 Kvenvolden, Keith A.: review of *Petroleum in the Marine Environment*, edited by Leonidas Petrakis and Fred T. Weiss. v210 p1241 12 Dec 80.
 Kyle, B. G.: High-grade fuels and biomass farming (technical comment). v210 p807-808 14 Nov 80.

L

- Lajoie, Kenneth R. See Cloud, Preston.
 Lake, C. R.; Sternberg, D. E.; van Kammen, D. P.; Ballenger, J. C.; Ziegler, M. G.; Post, R. M.; Kopin, I. J.; Bunney, W. E.: Elevated cerebrospinal fluid norepinephrine in schizophrenics: confounding effects of treatment drugs (technical comment). v210 p97 3 Oct 80.
 Lall, Abner B.; Seliger, Howard H.; Biggley, William H.; Lloyd, James E.: Ecology of colors of firefly bioluminescence. v210 p560-562 31 Oct 80.
 Lamparski, L. L. See Bumb, R. R.
 Landas, Steve; Phillips, M. Ian; Stamler, John F.; Raizada, Mohan K.: Visualization of specific angiotensin II binding sites in the brain by fluorescent microscopy. v210 p791-793 14 Nov 80.
 Lane, Arthur L. See Nelson, Robert M.
 Lane, Geoffrey A.; Nahrwold, Michael L.; Tait, Alan R.; Taylor-Busch, Margaret; Cohen, Peter J.; Beaudoin, Allan R.: Anesthetics as teratogens: nitrous oxide is fetotoxic, xenon is not. v210 p899-901 21 Nov 80.
 Lane, Judy. See Nowinski, Robert.
 Langacker, P. See Goldhaber, M.
 Langenberg, Donald N.: Cryptography, NSF, and NSA (letter). v210 p960 28 Nov 80.
 Langer, B. See Makowka, L.
 Langer, S. Z.; Moret, C.; Raisman, R.; Dubocovich, M. L.; Briley, M.: High-affinity [³H]imipramine binding in rat hypothalamus: association with uptake of serotonin but not of norepinephrine. v210 p1133-1135 5 Dec 80.
 Larson, A. D. See Hranitzky, K. W.
 Lawson, J. See Savage-Rumbaugh, E. Sue.
 Lawson, Roger H. See Davis, Michael J.
 Lee, T. J. See Sinton, W. M.
 Lee, Teresa. See Goodale, David B.
 Lee, Wook B. See Jackson, David D.
 Lehman, Michael N.; Winans, Sarah S.; Powers, J. Bradley: Medical nucleus of the amygdala mediates chemosensory control of male hamster sexual behavior. v210 p557-560 31 Oct 80.
 Leovy, Conway B.: Carbon dioxide and climate (letter). v210 p7 3 Oct 80.
 LePage, James J.: Gamma rays and the concept of a threshold dose (technical comment). v210 p806 14 Nov 80.
 Leporé, Franco. See Harris, Laurence R.
 Levin, Bruce R. See Selander, Robert K.
 Levin, Donald A.: review of *Reproduction in Flowering Plants*. v210 p181-182 10 Oct 80.
 Levine, Adeline: review of *Behind Every Successful Man*, by Martha R. Fowles. v210 p1004-1005 28 Nov 80.
 Levinson, John Z. See Barlow, Robert B., Jr.
 Levitt, Tami A.; Loring, Ralph H.; Salpeter, Miriam M.: Neuronal control of acetylcholine receptor turnover rate at a vertebrate neuromuscular junction. v210 p550-551 31 Oct 80.
 Lewin, Roger (research news): Evolutionary theory under fire. v210 p883-887 21 Nov 80. Government/industry dispute brain tumor risk. v210 p996-997 28 Nov 80. Is your brain really necessary? v210 p1232-1234 12 Dec 80.
 Lewis, John S.: Lightning on Jupiter: rate, energetics, and effects. v210 p1351-1352 19 Dec 80.
 Lewis, William M., Jr., and Grant, Michael C.: Effect of urban sources on acid precipitation in the western United States (technical comment). v210 p1043 28 Nov 80.
 Lewy, Alfred J.; Wehr, Thomas A.; Goodwin, Frederick K.; Newsome, David A.; Markey, S. P.: Light suppresses melatonin secretion in humans. v210 p1267-1269 12 Dec 80.
 Lichtman, Jeff W. See Purves, Dale.
 Lim, Franklin and Sun, Anthony M.: Micro-encapsulated islets as bioartificial endocrine pancreas. v210 p908-910 21 Nov 80.
 Lincoln, Thomas L. and Korpman, Ralph A.: Computers, health care, and medical information science. v210 p257-263 17 Oct 80.
 Lipsky, James J.: Elevated cerebrospinal fluid norepinephrine in schizophrenics: confounding effects of treatment drugs (technical comment). v210 p97 3 Oct 80.
 Liu, Chi-Ching. See Jackson, David D.
 Lloyd, James E.: Male *Photuris* fireflies mimic sexual signals of their females' prey. v210 p669-671 7 Nov 80. See also Lall, Abner B.

- Loew, G. See Maggiora, G. M.
 Lokengard, David M. See Pitts, James N., Jr.
 Long, John P. See Goodale, David B.
 Lonsdale, C. J. See Sinton, W. M.
 Lopez-Parodi, J. See Gentry, A. H.
 Loring, Ralph H. See Levitt, Tami A.
 Lostrom, Mark. See Nowinski, Robert.
 Lovegrove, W. J.; Bowling, A.; Badcock, D.; Blackwood, M.: Specific reading disability: differences in contrast sensitivity as a function of spatial frequency. v210 p439-440 24 Oct 80.
 Lovins, Amory B.: Energy demand forecasts (letter). v210 p480 31 Oct 80.
 Lowy, Douglas R. See Chang, Esther H.
 Lucas, G. B.: The war against blue mold. v210 p147-153 10 Oct 80.
 Luk, Gordon D.; Marton, Laurence J.; Baylin, Stephen B.: Ornithine decarboxylase is important in intestinal mucosal maturation and recovery from injury in rats. v210 p195-198 10 Oct 80.
 Lumsden, Charles J. See Hölldobler, Bert and Lumsden, Charles J.
 Luoma, E. V. See Bumb, R. R.
 Lutton, John K. See Harden, T. Kendall.

M

- Mackay, Mark A. See Borowitzka, Lesley J.
 Mac Lane, Saunders: Total reporting for scientific work. v210 p158-163 10 Oct 80.
 MacLaughlin, J. A. See Holick, M. F.
 Macovski, Albert. See Popp, Richard L.
 Maggiora, G. M.; Garrison, B.; Schatz, G.; Silver, D.; Hagstrom S.; Loew, G.: Chemistry computer center (letter). v210 p716, 719 14 Nov 80.
 Makowka, L.; Falk, R. E.; Rotstein, L. E.; Falk, J. A.; Nossal, N.; Langer, B.; Blendis, L. M.; Phillips, M. J.: Cellular transplantation in the treatment of experimental hepatic failure. v210 p901-903 21 Nov 80.
 Malin, Michael C. See Phillips, Roger J.
 Mandelbaum, Richard: Cryptography, NSF, and NSA (letter). v210 p960, 962 28 Nov 80.
 Mann, J. John; Stanley, Michael; Gershon, Samuel; Rossor, M.: Mental symptoms in Huntington's disease and a possible primary aminergic neuron lesion. v210 p1369-1371 19 Dec 80.
 Margulis, Lynn. See Rambler, Mitchell B.
 Markey, S. P. See Lewy, Alfred J.
 Marler, Peter. See Seyfarth, Robert M.
 Marshall, Eliot (news and comment): Advising Reagan on science policy. v210 p880-881 21 Nov 80. Carter and Reagan on defense: rhetoric and posturing clothe important differences. v210 p29-31 3 Oct 80. Congress begins the Republican shuffle. v210 p881 21 Nov 80. Disease center will fund Love Canal research. v210 p295 17 Oct 80. Energy crisis in the campaign. v210 p164-166 10 Oct 80. Frank Press's numbers game. v210 p406 24 Oct 80. Hiatt warns of the "last epidemic." v210 p1103 5 Dec 80. Hospitals harbor a built-in disease source. v210 p745-746, 748-749 14 Nov 80. Iraqi nuclear program halted by bombing. v210 p507-508 31 Oct 80. NRC plans to deregulate biomedical wars. v210 p1228-1229 12 Dec 80. Poland: a visitor's snapshot. v210 p292 17 Oct 80. Police science and psychics. v210 p994-995 28 Nov 80. Prizes that predict Nobel winners. v210 p294-295 17 Oct 80. Waiting for Reagan. v210 p1103 5 Dec 80. Senator Schmitt, new science power. v210 p1329-1331 19 Dec 80. Waiting for Reagan. v210 p1103 5 Dec 80. Westinghouse feels impact of declining demand. v210 p295 17 Oct 80. Will biocommerce ravage biomedicine? v210 p1102-1103 5 Dec 80.
 Marshall, J. F. See Weisz, P. B.
 Marston, Robert Q.: Proposed changes in biomedical funding (editorial). v210 p721 14 Nov 80.
 Marton, Laurence J. See Luk, Gordon D.
 Marx, Jean L. (research news): 1980 Nobel Prize in Physiology or Medicine. v210 p621-623 7 Nov 80. Gene transfer moves ahead. v210 p1334-1336 19 Dec 80. Interferon Congress highlights. v210 p998 28 Nov 80. Natural killer cells help defend the body. v210 p624-626 7 Nov 80. NMR opens a new window into the body. v210 p302-305 17 Oct 80.
 Masland, Richard M. See Hayden, Shawn A.
 Mastropaolo, Donald; Camerman, Arthur; Camerman, Norman: Folic acid: crystal structure and implications for enzyme binding. v210 p334-336 17 Oct 80.
 Matson, Dennis L. See Nelson, Robert M.
 Matsuzaki, Yoshikazu; Hamasaki, Yuhei; Said, Sami I.: Vasoactive intestinal peptide: a possible transmitter of nonadrenergic relaxation of guinea pig airways. v210 p1252-1253 12 Dec 80.
 Matthews, Allan F.: Bad news: is it true? (letter). v210 p1296 19 Dec 80.
 Matthews, Valerie A. See Mukai, Noritsugu.
 Maugh, Thomas H., II (research news): The 1980 Nobel Memorial Prize in Economics. v210 p758-759 14 Nov 80. Hepatitis B vaccine passes first major test. v210 p760-762 14 Nov 80. New techniques for selective immune suppression increase transplant odds. v210 p44-46 3 Oct 80. Transplants (II): altering the donor organ. v210 p177-179 10 Oct 80. Where is the hepatitis C virus? v210 p999-1000 28 Nov 80.
 Maxworthy, Tony and Redekopp, Larry G.: Possible fluid dynamical interpretation of some reported features in the Jovian atmosphere. v210 p1350-1351 19 Dec 80.
 May, Robert M. See Anderson, Roy M.
 Mazue, Guy. See Williams, Gary M.
 McCann, P. P. See Bacchi, C. J.
 McCloskey, Michael; Caramazza, Alfonso; Green, Bert: Curvilinear motion in the absence of external forces: naive beliefs about the motion of objects. v210 p1139-1141 5 Dec 80.
 McClure, F. L. See Criswell, Darrell W.
 McConnachie, P. R. and Birch, A. G.: Kidney transplants (letter). v210 p378-379 24 Oct 80.
 McDaniel, C. A. See Howard, Ralph W.
 McGivern, Robert F. and Berntson, Gary G.: Mediation of diurnal fluctuations in pain sensitivity in the rat by food intake patterns: reversal of naloxone. v210 p210-211 10 Oct 80.
 McIntosh, Roderick J.: review of *Living Archaeology*, by R. A. Gould. v210 p1117-1118 5 Dec 80.
 McIntyre, Carol J. See Sytkowski, Arthur J.
 McQueen, Charlene A. See Williams, Gary M.
 Meindl, James D.: Biomedical implantable microelectronics. v210 p263-267 17 Oct 80.
 Melamed, M. R. See Evenson, D. P.
 Mendelson, T. See Salamy, A.
 Merzbacher, Eugen: review of *Coherence and Correlation in Atomic Collisions*, edited by H. Kleinpoppen and J. F. Williams. v210 p632-633 7 Nov 80.
 Michod, Richard E. and Abugov, Robert: Adaptive topography in family-structured models of kin selection. v210 p667-669 7 Nov 80.
 Miller, D. L. See Bumb, R. R.
 Miller, R. G. See Orci, L.
 Mills, John W. See Hayden, Shawn A.
 Misulovin, Ziva. See Wallace, Robin A.
 Monica, P. See Bergland, R.
 Montelliet, J. See Faure, H.
 Montesano, R. See Orci, L.
 Mooney, H. A. See Winner, W. E.
 Moore, Robert E. and Sharma, Rameshwar K.: Endogenous substrate for cyclic AMP-dependent protein kinase in adrenocortical polyadenylated messenger ribonucleoproteins. v210 p1137-1139 5 Dec 80.
 Moore-Ede, Martin C. See Czeisler, Charles A.
 Moret, C. See Langer, S. Z.
 Morisawa, Masaaki and Suzuki, Keiji: Osmolality and potassium ion: their roles in initiation of sperm motility in teleosts. v210 p1145-1147 5 Dec 80.
 Morrison, David: review of *Cosmic Landscape*, by Michael Rowan-Robinson. v210 p780-781 14 Nov 80.
 Moss, D. J. See Bacastow, R. B.
 Mountain, David C.: Changes in endolymphatic potential and crossed olivocochlear bundle stimulation alter cochlear mechanics. v210 p71-72 3 Oct 80.
 Moyer, Wayne A.: Animals in the classroom (letter). v210 p8 3 Oct 80.
 Mueller, James L. See Gordon, Howard R. See also Hovis, W. A.
 Mukai, Noritsugu; Kalter, S. S.; Cummins, Larry B.; Matthews, Valerie A.; Nishida, Teruo; Nakajima, Takashi: Retinal tumor induced in baboon by human adenovirus 12. v210 p1023-1025 28 Nov 80.
 Mulcahy, David L. See Ottaviano, Ercole.
 Muller, Paul M. See Dunham, David W.
 Mushak, Paul. See Piomelli, Sergio.

N-Q

- Nahrwold, Michael L. See Lane, Geoffrey A.
 Nakajima, Takashi. See Mukai, Noritsugu.
 Nakamura, Yuji. See Wakita, Hiroshi.
 Nash, Douglas B. See Nelson, Robert M.
 Nathan, H. C. See Bacchi, C. J.
 Neet, Kenneth E. See Warren, Stephen L.
 Nelson, Robert M.; Lane, Arthur L.; Matson, Dennis L.; Fanale, Fraser P.; Nash, Douglas B.; Johnson, Torrence V.: I₀: longitudinal distribution of sulfur dioxide frost. v210 p784-786 14 Nov 80.
 Nestrick, T. J. See Bumb, R. R.
 Newsome, David A. See Lewy, Alfred J.
 Nicoll, R. A. See Alger, B. E.
 Nishida, Teruo. See Mukai, Noritsugu.
 Nishimura, Yoshifumi and Tsuboi, Masamichi: Resonance Raman effect of carbonyl group as a probe of its π -electron state. v210 p1358-1360 19 Dec 80.
 Norlyn, Jack D. See Epstein, Emanuel.
 Northcutt, K. J. See Hulett, L. D., Jr.
 Norton, Raymond S. See Borowitzka, Lesley J.
 Nossal, N. See Makowka, L.
 Notkins, Abner Louis. See Sekizawa, Tsuyoshi.
 Notsu, Kenji. See Wakita, Hiroshi.
 Nowell, Arthur R. M. See Taghon, Gary L.
 Nowinski, Robert; Berglund, Cicely; Lane, Judy; Lostrom, Mark; Bernstein, Irwin; Young, William; Hakomori, Sen-itiroh; Hill, Lucius; Cooney, Marion; Human monoclonal antibody against Forssman antigen. v210 p537-539 31 Oct 80.
 Openshaw, Harry. See Sekizawa, Tsuyoshi.
 Orci, L.; Miller, R. G.; Montesano, R.; Perrelet, A.; Amherdt, M.; Vassalli, P.: Opposite polarity of filipin-induced deformations in the membranes of condensing vacuoles and zymogen granules. v210 p1019-1021 28 Nov 80.
 Orenberg, Elaine K. See Diamond, Marian C.
 Orton, William L. See Fanta, George F.
 Osterbrock, Donald E.: review of *Objects of High Redshift*, edited by G. O. Abell and P. J. E. Peebles. v210 p1005-1006 28 Nov 80.
 Otis, Arthur B.: review of *Biophysics and Physiology of Carbon Dioxide*, edited by C. Bauer, G. Gros, and H. Bartels. v210 p892-893 21 Nov 80.
 Ottaviano, Ercole; Sari-Gorla, Mirella; Mulcahy, David L.: Pollen tube growth in *Zea mays*: implications for genetic improvement of crops. v210 p437-438 24 Oct 80.
 Padgett, Richard. See Piomelli, Sergio.
 Pakiser, L. C. and Brune, James N.: Seismic models of the root of the Sierra Nevada. v210 p1088-1094 5 Dec 80.
 Palmer, Michael. See Sorensen, Steve.
 Papahadjopoulos, D.: review of *Liposomes in Biological Systems*, edited by Gregory

- Gregoriadis and Anthony C. Allison. v210 p1342-1343 19 Dec 80. See also Heath, Timothy D.
- Parasuraman, Raja and Beatty, Jackson: Brain events underlying detection and recognition of weak sensory signals. v210 p80-83 3 Oct 80.
- Parrish, J. A. See Holick, M. F.
- Paterson, R. See Bergland, R.
- Paterson, W. S. B.: review of *Symposium on Glacier Beds*. v210 p1341-1342 19 Dec 80.
- Patrick, Ruth: Environmental assessment (letter). v210 p719 14 Nov 80.
- Paulson, Glenn. See Plunkett, Richard L.
- Pearson, John. See Johnson, Eugene M., Jr.
- Peck, William A. See Canalis, Ernesto.
- Perkins, John P. See Harden, T. Kendall.
- Perlow, Debra Schwenk. See Freidinger, Roger M.
- Peroutka, Stephen J. and Snyder, Solomon H.: Long-term antidepressant treatment decreases spiroperidol-labeled serotonin receptor binding. v210 p88-90 3 Oct 80.
- Perrelet, A. See Orci, L.
- Pestronk, Alan and Drachman, Daniel B.: Lithium reduces the number of acetylcholine receptors in skeletal muscle. v210 p342-343 17 Oct 80.
- Phillips, M. Ian. See Landas, Steve.
- Phillips, M. J. See Makowka, L.
- Phillips, Roger J. and Malin, Michael C.: Ganymede: a relationship between thermal history and crater statistics. v210 p185-188 10 Oct 80.
- Piatigorsky, Joram. See Shinohara, Toshimichi.
- Pickett, Jackson B.: Nerve terminals are as metabolically different as the muscle fibers they innervate. v210 p927-928 21 Nov 80.
- Pictet, Raymond L. See Hobart, Peter M.
- Pieri, David C.: Martian valleys: morphology, distribution, age, and origin. v210 p895-897 21 Nov 80.
- Pilch, Paul F. and Czech, Michael P.: Hormone binding alters the conformation of the insulin receptor. v210 p1152-1153 5 Dec 80.
- Pinto, Joseph P.; Gladstone, G. Randall; Yung, Yuk Ling: Photochemical production of formaldehyde in Earth's primitive atmosphere. v210 p183-185 10 Oct 80.
- Piomelli, Sergio; Corash, Laurence; Corash, Michele Beigel; Seaman, Carol; Mushak, Paul; Glover, Barbara; Padgett, Richard: Blood lead concentrations in a remote Himalayan population. v210 p1135-1137 5 Dec 80.
- Pirazzoli, P. A. See Faure, H.
- Pitts, James N., Jr.; Lokensgard, David M.; Ripley, Paul S.; Van Cauwenberghe, Karel A.; Van Vaec, Luk; Shaffer, Steven D.; Thill, Alan J.; Belser, William L., Jr.: "Atmospheric epoxidation of benzo[a]pyrene by ozone: formation of the metabolite benzo[a]pyrene-4,5-oxide. v210 p1347-1349 19 Dec 80.
- Plunkett, Richard L. and Paulson, Glenn: Conductor conservation (letter). v210 p136 10 Oct 80.
- Pontzer, Carol H. See Gambert, Steven R.
- Popp, Richard L. and Macovski, Albert: Ultrasonic diagnostic instruments. v210 p268-273 17 Oct 80.
- Post, R. M. See Lake, C. R.
- Potts, J. T., Jr. See Holick, M. F.
- Powers, J. Bradley. See Lehman, Michael N.
- Prichep, L. See Ahn, H. See also John, E. R.
- Purtillo, David T. See Sullivan, John L.
- Purves, Dale and Lichtman, Jeff W.: Elimination of synapses in the developing nervous system. v210 p153-157 10 Oct 80.
- Quigg, C. See Hung, P. Q.

R

- Ragsdale, D. W. See Hranitzky, K. W.
- Raisman, R. See Langer, S. Z.
- Raisz, Lawrence G. See Canalis, Ernesto.
- Raizada, Mohan K. See Landas, Steve.

- Ralph, Charles L. See Roth, Jan J.
- Ramanathan, V. See Schneider, Stephen H.
- Rambler, Mitchell B. and Margulis, Lynn: Bacterial resistance to ultraviolet irradiation under anaerobiosis: implications for pre-Phanerozoic evolution. v210 p638-640 7 Nov 80.
- Ratcliff, Milton A. See Bergot, B. John.
- Ray, Thomas A. and Andrews, Catherine C.: Antbutterflies: butterflies that follow army ants to feed on antbird droppings. v210 p1147-1148 5 Dec 80.
- Razin, Aharon and Riggs, Arthur D.: DNA methylation and gene function. v210 p604-610 7 Nov 80.
- Redekopp, Larry G. See Maxworthy, Tony.
- Reichlin, Seymour. See Bolaffi, Janice L.
- Reiter, Russel J.; Richardson, Bruce A.; Johnson, Linda Y.; Ferguson, Bonnie N.; Dinh, Diep T.: Pineal melatonin rhythm: reduction in aging Syrian hamsters. v210 p1372-1373 19 Dec 80.
- Renaud, S. See Ciavatti, M.
- Richards, James. See Kinzel, Volker.
- Richardson, Bruce A. See Reiter, Russel J.
- Richardson, H. H. See Rockley, M. G.
- Riggs, Arthur D. See Razin, Aharon.
- Ripley, Paul S. See Pitts, James N., Jr.
- Ritman, E. L.; Kinsey, J. H.; Robb, R. A.; Gilbert, B. K.; Harris, L. D.; Wood, E. H.: Three-dimensional imaging of heart, lungs, and circulation. v210 p273-280 17 Oct 80.
- Ritzmann, Roy E.; Tobias, Martha L.; Fourtner, Charles R.: Flight activity initiated via giant interneurons of the cockroach: evidence for bifunctional trigger interneurons. v210 p443-445 24 Oct 80.
- Rivier, Catherine; Rivier, Jean; Vale, Wylie: Antireproductive effects of a potent gonadotropin-releasing hormone antagonist in the male rat. v210 p93-95 3 Oct 80.
- Rivier, Jean. See Rivier, Catherine.
- Robb, R. A. See Ritman, E. L.
- Robinson, Arthur L. (research news): 1980 Nobel Prize in Physics to Cronin and Fitch. v210 p619-621 7 Nov 80. Energy sweepstakes: fusion gets a chance. v210 p415-416 24 Oct 80. A long-range plan for nuclear science. v210 p1236-1237 12 Dec 80. A nuclear puzzle emerges at Berkeley. v210 p174-175 10 Oct 80. Physics journals adopt new policy. v210 p1337 19 Dec 80. (news and comment): Computer chess: Belle sweeps the board. v210 p293-294 17 Oct 80.
- Rockley, M. G.; Davis, D. M.; Richardson, H. H.: Fourier-transformed infrared photoacoustic spectroscopy of biological materials. v210 p918-920 21 Nov 80.
- Rohrbaugh, John W. See Halgren, Eric.
- Romano, Carmelo and Goldstein, Avram: Stereospecific nicotine receptors on rat brain membranes. v210 p647-650 7 Nov 80.
- Ross, Jeffrey: Credit (letter). v210 p719 14 Nov 80.
- Ross, Russell. See Wrann, Michael.
- Rossor, M. See Mann, J. John.
- Roth, E. Carol. See Roth, Jan J.
- Roth, Jan J.; Gern, William A.; Roth, E. Carol; Ralph, Charles L.; Jacobson, Elliott: Non-pineal melatonin in the alligator. v210 p548-550 31 Oct 80.
- Rotstein, L. E. See Makowka, L.
- Rowlett, Ralph M.: review of *The Prehistory of Europe*, by Patricia Phillips. v210 p530-531 31 Oct 80.
- Rubin, Vera: review of *The Sky Explored*, by Deborah J. Warner. v210 p632 7 Nov 80.
- Rumbaugh, D. M. See Savage-Rumbaugh, E. Sue.
- Rush, Dale W. See Epstein, Emanuel.
- Russell, Scott D.: Participation of male cytoplasm during gamete fusion in an angiosperm, *Plumbago zeylanica*. v210 p200-201 10 Oct 80.
- Rusterholz, David B. See Goodale, David B.
- Rutter, William J. See Hobart, Peter M.
- Rydin, Roger A.: Gamma rays and the concept of a threshold dose (technical comment). v210 p806 14 Nov 80.

S

- Sachs, R. K.: review of *The Universe at Large Redshifts*, edited by J. Kalcar, O. Ulfbeck, and N. R. Nilsson. v210 p781 14 Nov 80.
- Said, Sami I. See Matsuzaki, Yoshikazu.
- Sakurada, Toshiro. See Sterling, Kenneth.
- Salam, Abdus: Gauge unification of fundamental forces. v210 p723-732 14 Nov 80.
- Salamy, A.; Mendelson, T.; Tooley, W. H.; Chaplin, E. R.: Differential development of brainstem potentials in healthy and high-risk infants. v210 p553-555 31 Oct 80.
- Salata, Kalman. See Whiting, John.
- Saller, Charles F. and Chiodo, Louis A.: Glucose suppresses basal firing and haloperidol-induced increases in the firing rate of central dopaminergic neurons. v210 p1269-1271 12 Dec 80.
- Salpeter, Miriam M. See Levitt, Tami A.
- Salvado, August J. See Sytkowski, Arthur J.
- Sanderson, Warren and Johnston, Bruce F.: Bad news: is it true? (letter). v210 p1303 19 Dec 80.
- Saperstein, Richard. See Freidinger, Roger M.
- Sari-Gorla, Mirella. See Ottaviano, Ercole.
- Savage-Rumbaugh, E. Sue; Rumbaugh, D. M.; Smith, S. T.; Lawson, J.: Reference: the linguistic essential. v210 p922-925 21 Nov 80.
- Schafer, Rollie. See Criswell, Darrell W.
- Schatz, G. See Maggiora, G. M.
- Schneider, Stephen H.; Kellogg, William W.; Ramanathan, V.: Carbon dioxide and climate (letter). v210 p6-7 3 Oct 80.
- Schooley, David A. See Bergot, B. John.
- Schorer-Slatkine, S. See El-Etr, M.
- Schrire, Carmel: review of *The Ikung San*, by Richard Borshay Lee. v210 p890-891 21 Nov 80.
- Schwartz, Stephen M.: Access to grant applications (letter). v210 p590 7 Nov 80.
- Schwartzkroin, Philip A. and Stafstrom, Carl E.: Effects of EGTA on the calcium-activated afterhyperpolarization in hippocampal CA3 pyramidal cells. v210 p1125-1126 5 Dec 80.
- Schweitzer, John B. See Jarett, Leonard.
- Scolnick, Edward M. See Chang, Esther H.
- Scott, Walter N. See Jefferson, Douglas M.
- Seaman, Carol. See Piomelli, Sergio.
- Sekizawa, Tsuyoshi; Openshaw, Harry; Wohlenberg, Charles; Notkins, Abner Louis: Latency of herpes simplex virus in absence of neutralizing antibody: model for reactivation. v210 p1026-1028 28 Nov 80.
- Selander, Robert K. and Levin, Bruce R.: Genetic diversity and structure in *Escherichia coli* populations. v210 p545-547 31 Oct 80.
- Seliger, Howard H. See Lall, Abner B.
- Seyfarth, Robert M.; Cheney, Dorothy L.; Marler, Peter: Monkey responses to three different alarm calls: evidence of predator classification and semantic communication. v210 p801-803 14 Nov 80.
- Shadoff, L. A. See Bumb, R. R.
- Shaffer, Steven D. See Pitts, James N., Jr.
- Shapiro, Alan E.: review of *Philosophers at War*, by A. Rupert Hall. v210 p417-418 24 Oct 80.
- Sharma, Rameshwar K. See Moore, Robert E.
- Shen, Lu-Ping. See Hobart, Peter M.
- Shepard, Roger N.: Multidimensional scaling, tree-fitting, and clustering. v210 p390-398 24 Oct 80.
- Shimada, Tomiko. See Williams, Gary M.
- Shinitzky, M. See Yatvin, M. B.
- Shinohara, Toshimichi and Piatigorsky, Joram: Persistence of crystallin messenger RNA's with reduced translation in hereditary cataracts in mice. v210 p914-916 21 Nov 80.
- Shore, Bruce W.: review of *Atomic Structure*, by E. U. Condon and H. Odabasi. v210 p531-532 31 Oct 80.
- Siddiqui, Shahid S. and Babu, P.: Genetic mosaics of *Caenorhabditis elegans*: a tissue-specific fluorescent mutant. v210 p330-332 17 Oct 80.

- Siebeling, R. J. See Hranitzky, K. W.
 Sih, Andrew: Optimal behavior: can foragers balance two conflicting demands? v210 p1041-1042 28 Nov 80.
 Silver, D. See Maggiora, G. M.
 Simon, Julian L.: Bad news: is it true? (letter). v210 p1305-1306, 1308 19 Dec 80.
 Singer, Steve: Bad news: is it true? (letter). v210 p1296 19 Dec 80.
 Sinton, W. M.; Tokunaga, A. T.; Becklin, E. E.; Gatley, I.; Lee, T. J.; Lonsdale, C. J.: lo: ground-based observations of hot spots. v210 p1015-1017 28 Nov 80.
 Sjoerdsma, A. See Bacchi, C. J.
 Sladek, Celia D. See Gash, Don.
 Sladek, John R., Jr. See Gash, Don.
 Slansky, R. See Goldhaber, M.
 Slatkin, Montgomery: review of *The Genetics of Altruism*, by Scott A. Boorman and Paul R. Levitt. v210 p633-634 7 Nov 80.
 Slavin, S. and Yatziv, S.: Correction of enzyme deficiency in mice by allogeneic bone marrow transplantation with total lymphoid irradiation. v210 p1150-1152 5 Dec 80.
 Slotkin, Theodore A. See Bartolome, Jorge.
 Smith, Georgianna M. See Sytkowski, Arthur J.
 Smith, R. Jeffrey (news and comment): Brailovsky arrested. v210 p1106 5 Dec 80. Buettner-Janusch is sentenced. v210 p993 28 Nov 80. Classified research. v210 p992-993 28 Nov 80. Drug-making topples eminent anthropologist. v210 p296-299 17 Oct 80. Legislators accept fast-paced fusion program. v210 p290-291 17 Oct 80. Love Canal reviewed. v210 p513 31 Oct 80. OSHA backs away from strict lab rules. v210 p992 28 Nov 80. Passive solar homes endorsed. v210 p993 28 Nov 80. Public scores low on environmental test. v210 p512-513 31 Oct 80. Scientists' boycott grows. v210 p513 31 Oct 80. Simon Ramo's prescriptions for innovation. v210 p1331-1332 19 Dec 80.
 Smith, Robert M. See Jarett, Leonard.
 Smith, S. T. See Savage-Rumbaugh, E. Sue.
 Sneed, O. Carter, III and Bearden, Larry J.: Anticonvulsants specific for petit mal antagonize epileptogenic effect of leucine enkephalin. v210 p1031-1033 28 Nov 80.
 Snyder, Solomon H. See Peroutka, Stephen J.
 Sofia, Sabatino. See Dunham, David W.
 Sorensen, Steve; Palmer, Michael; Dunwiddie, Thomas; Hoffer, Barry: Electrophysiological correlates of ethanol-induced sedation in differentially sensitive lines of mice. v210 p1143-1145 5 Dec 80.
 Sotelo, J.; Gibbs, C. J., Jr.; Gajdusek, D. C.: Autoantibodies against axonal neurofilaments in patients with kuru and Creutzfeldt-Jakob disease. v210 p190-193 10 Oct 80.
 Sperling, George: Bandwidth requirements for video transmission of American Sign Language and finger spelling. v210 p797-799 14 Nov 80.
 Spiker, Elliott C. See Bothner, Michael H.
 Spindel, William: Fruit fly breeding (letter). v210 p719 14 Nov 80.
 Squire, Larry R. See Chen, Neal J.
 Squires, Nancy K. See Halgren, Eric.
 Stafstrom, Carl E. See Schwartzkroin, Philip A.
 Stamler, John F. See Landas, Steve.
 Stanley, Julian C. See Benbow, Camilla Persson.
 Stanley, Michael. See Mann, J. John.
 Starkey, Prentice and Cooper, Robert G., Jr.: Perception of numbers by human infants. v210 p1033-1035 28 Nov 80.
 Staub, N. C. See Bhattacharya, J.
 Stedman, Donald H. See Kelly, Thomas J.
 Stehl, R. H. See Bumb, R. R.
 Stein, Barry E.; Clamann, H. P.; Goldberg, S. J.: Superior colliculus: control of eye movements in neonatal kittens. v210 p78-80 3 Oct 80.
 Stellman, Steven D. See Wynder, Ernst L.
 Sterling, Kenneth; Brenner, Milton A.; Sakurada, Toshiro: Rapid effect of triiodothyronine on the mitochondrial pathways in rat liver in vivo. v210 p340-342 17 Oct 80.
 Sternberg, D. E. See Lake, C. R.
 Stetten, DeWitt, Jr.: Eradication (editorial). v210 p1203 12 Dec 80.
 Stevenson, Adlai E.: OSTP: the last 4 years (letter). v210 p1199 12 Dec 80.
 Stevenson, Robert E.: Cell line origins (letter). v210 p480 31 Oct 80.
 Street, John M.; Fuller, Gary A.; Currey, Bruce: Bad news: is it true? (letter). v210 p1301-1302 19 Dec 80.
 Streeter, S. Stephen. See Heusser, Calvin J.
 Stuiver, M. See Watts, W. A.
 Stöhr, Michael. See Kinzel, Volker.
 Sturm, B. See Hovis, W. A.
 Sullivan, John L.; Byron, Kevin S.; Brewster, Frank E.; Purtilo, David T.: Deficient natural killer cell activity in X-linked lymphoproliferative syndrome. v210 p543-545 31 Oct 80.
 Sun, Anthony M. See Lim, Franklin.
 Sun, Marjorie (news and comment): DeWitt, Livermore Lab patch up over *Progressive*. v210 p747 14 Nov 80. For future grants, ski trips are out. v210 p746-747 14 Nov 80. For NIH, business as usual. v210 p1332-1333 19 Dec 80. Institute of Medicine gets new president. v210 p616-617 7 Nov 80. Insulin wars: new advances may throw market into turbulence. v210 p1225-1228 12 Dec 80. Ion generators: old fad, new fashion. v210 p31-32 3 Oct 80. It's official: Press nominated to head NAS. v210 p747 14 Nov 80. Making interferon: gains come slowly. v210 p618 7 Nov 80. NAS hopes to meet Soviets on arms control. v210 p747 14 Nov 80. New watchdog group ponders scientific freedom. v210 p1333 19 Dec 80. NIH bills: legislators may or may not compromise. v210 p36-37 3 Oct 80. Primate center attempts bailout through Congress. v210 p1333 19 Dec 80. Too many doctors in the house. v210 p756-757 14 Nov 80.
 Suzuki, Keiji. See Morisawa, Masaaki.
 Swift, Michael: Cancer risk counseling (letter). v210 p1074 5 Dec 80.
 Sykes, Lynn R.; Kisslinger, Jerome B.; House, Leigh; Davies, John N.; Jacob, Klaus H.: Rupture zones of great earthquakes in the Alaska-Aleutian arc, 1784 to 1980. v210 p1343-1345 19 Dec 80.
 Synnott, S. P.: 1978J2: the discovery of a previously unknown Jovian satellite. v210 p786-788 14 Nov 80.
 Sytkowski, Arthur J.; Salvado, August J.; Smith, Georgianna M.; McIntyre, Carol J.; deBoth, N. J.: Erythroid differentiation of clonal Rauscher erythroleukemia cells in response to erythropoietin or dimethyl sulfoxide. v210 p74-76 3 Oct 80.
- ## T
- Taghon, Gary L.; Nowell, Arthur R. M.; Jumars, Peter A.: Induction of suspension feeding in spionid polychaetes by high particulate fluxes. v210 p562-564 31 Oct 80.
 Tait, Alan R. See Lane, Geoffrey A.
 Tasaki, Ichiji. See Iwasa, Kunihiro.
 Taves, Donald R.: Fluoride distribution and biological availability in the fallout from Mount St. Helens, 18 to 21 May 1980. v210 p1352-1354 19 Dec 80.
 Taylor, J. J.: Nuclear power potential (letter). v210 p590 7 Nov 80.
 Taylor, Orley R.: Africanized bees (letter). v210 p248 17 Oct 80.
 Taylor-Busch, Margaret. See Lane, Geoffrey A.
 Teicher, Martin H. See Blass, Elliot M.
 Thill, Alan L. See Pitts, James N., Jr.
 Thompson, Donald E.: review of *Inca Architecture*, by Graziano Gasparini and Luise Margolies. v210 p779-780 14 Nov 80.
 Tillman, J. E.: Eastern geothermal resources: should we pursue them? v210 p595-600 7 Nov 80.
 Tilton, George R. and Barreiro, Barbara A.: Origin of lead in Andean calc-alkaline lavas, southern Peru. v210 p1245-1247 12 Dec 80.
 Tobias, Martha L. See Ritzmann, Roy E.
 Todd, Paul. See Furcinitti, Paul S.
 Tokunaga, A. T. See Sinton, W. M.
 Tooley, W. H. See Salamy, A.
 Trepetin, M. See Ahn, H. See also John, E. R.
 Tsuboi, Masamichi. See Nishimura, Yoshifumi.
 Tuber, David S.; Berntson, Gary G.; Bachman, David S.; Allen, J. Norman: Associative learning in premature hydranencephalic and normal twins. v210 p1035-1037 28 Nov 80.
 Tulchinsky, D. See Fishman, J.
- ## V-Z
- Vale, Wylie. See Rivier, Catherine.
 Valladares, Rogelio: IDEA (letter). v210 p846 21 Nov 80.
 Valle, David. See Kaiser-Kupfer, Muriel I.
 Van Cauwenbergh, Karel A. See Pitts, James N., Jr.
 van Kammen, D. P. See Lake, C. R.
 Van Vaeck, Luk. See Pitts, James N., Jr.
 Vande Kerckhove, Gayle A. See Howe, Henry F.
 Varner, J. E.: review of *Genome Organization and Expression in Plants*, edited by C. J. Leaver. v210 p532-533 31 Oct 80.
 Vassalli, P. See Orcl, L.
 Veber, Daniel F. See Freidinger, Roger M.
 Vinovskis, Maris A.: review of *Bastardy and Its Comparative History*, edited by Peter Laslett, Karla Oosterveen, and Richard M. Smith. v210 p1003-1004 28 Nov 80.
 Viorst, Milton: Birzeit: the search for national identity (news and comment). v210 p1101-1102 5 Dec 80.
 von Hippel, Frank. See Krugmann, Hartmut.
 Vouk, V. B.: review of *Quantitative Toxicology*, by V. A. Filov, A. A. Golubev, E. I. Liubina, and N. A. Tolokontsev. v210 p418-419 24 Oct 80.
 Wade, Michael J.: Kin selection: its components. v210 p665-667 7 Nov 80.
 Wade, Nicholas (news and comment): Gene goldrush splits Harvard, worries brokers. v210 p878-879 21 Nov 80. Gene splicing company wows Wall Street. v210 p506-507 31 Oct 80. Harvard marches up hill and down again. v210 p1104 5 Dec 80. Oil companies suppress German synfuels formula, says Hollywood. v210 p990 28 Nov 80. UCLA gene therapy racked by friendly fire. v210 p509-511 31 Oct 80. Why government should not fund science. v210 p33 3 Oct 80. See also Kolata, Gina Bari.
 Wake, David B.: review of *Phylogenetic Patterns and the Evolutionary Process*, by Niles Eldredge and Joel Cracraft. v210 p1239-1240 12 Dec 80.
 Wakita, Hiroshi; Nakamura, Yuji; Kita, Itsuro; Fujii, Naoyuki; Notsu, Kenji: Hydrogen release: new indicator of fault activity. v210 p188-190 10 Oct 80.
 Walbot, Virginia: review of *The Biochemistry of Plants*, edited by N. E. Tolbert. v210 p1119 5 Dec 80.
 Waldo, Gary L. See Harden, T. Kendall.
 Waldrop, M. Mitchell: Voyager I at Saturn (research news) v210 p1107-1111 5 Dec 80.
 Walker, J. Michael; Akil, Huda; Watson, Stanley J.: Evidence for homologous actions of pro-opioid products. v210 p1247-1249 12 Dec 80.
 Wallace, Robin A. and Misulovin, Ziva: The role of zinc and follicle cells in insulin-initiated meiotic maturation of *Xenopus laevis* oocytes (technical comment). v210 p928-929 21 Nov 80.
 Walser, MacKenzie. See Kaiser-Kupfer, Muriel I.
 Walsh, Brian. See Goodale, David B.
 Walsh, John (news and comment): A century

- after, a Huxley back at Royal Society helm. v210 p411 24 Oct 80. For the weapons labs, a countdown of regents? v210 p1230-1231 12 Dec 80. North Carolina's school for science, math all-stars. v210 p411 24 Oct 80. NSF boosts engineering, applied research. v210 p1105-1106 5 Dec 80. Palm for pre-science to Wolf Foundation. v210 p411 24 Oct 80. Politics embroils NSF directorate. v210 p37 3 Oct 80. *Progressive* case fallout has a long half-life. v210 p410-411 24 Oct 80. The Reagan years: regrouping on education. v210 p991-992, 994 28 Nov 80. Science finds a place in the transition. v210 p1328-1329 19 Dec 80. Should N.Y. accredit foreign medical schools? v210 p1231 12 Dec 80. Slaughter confirmed at last. v210 p170 10 Oct 80. Trouble in science and engineering education. v210 p615-616 7 Nov 80. Universities face new accounting rules. v210 p34-36 3 Oct 80. What to do when the well runs dry. v210 p754-756 14 Nov 80.
- Wamsley, James K. See Young, W. Scott, III.
- Warren, Stephen L.; Fanger, Michael; Neet, Kenneth E.: Inhibition of biological activity of mouse β -nerve growth factor by monoclonal antibody. v210 p910-912 21 Nov 80.
- Wasserman, Steven S. See Futuyama, Douglas J.
- Watson, J. A. L. See Cloud, Preston.
- Watson, Stanley J. See Walker, J. Michael.
- Watts, W. A. and Stuiver, M.: Late Wisconsin climate of northern Florida and the origin of species-rich deciduous forest. v210 p325-327 17 Oct 80.
- Waxman, Stephen G. See Foster, Robert E.
- Wehr, Thomas A. See Lewy, Alfred J.
- Weil, Andrews T.: Coca, not cocoa (letter). v210 p378 24 Oct 80.
- Weinberg, Steven: Conceptual foundations of the unified theory of weak and electromagnetic interactions. v210 p1212-1218 12 Dec 80.
- Weinberger, A. J. See Hulet, L. D., Jr.
- Weiner, Denise: New Delhi seminar to explore roles for scientific and engineering societies in development (AAAS). v210 p55 3 Oct 80.
- Weisz, P. B. and Marshall, J. F.: High-grade fuels and biomass farming (technical comment). v210 p808 14 Nov 80.
- Weitzman, Elliot D. See Czeisler, Charles A.
- Wenk, Edward, Jr.: Science advice (letter). v210 p846 21 Nov 80.
- Whalen, Christopher C. See Foster, Robert E.
- Whitcomb, S. E.; Hildebrand, R. H.; Keene, Jocelyn: Brightness temperatures of Saturn's disk and rings at 400 and 700 micrometers. v210 p788-789 14 Nov 80.
- Whiting, John; Salata, Kalman; Bailey, J. Martyn: Aspirin: an unexpected side effect on prostacyclin synthesis in cultured vascular smooth muscle cells. v210 p663-665 7 Nov 80.
- Whittaker, Ewen A.: Lunar topography: Galileo's drawings (letter). v210 p136 10 Oct 80.
- Whorf, T. P. See Bacastow, R. B.
- Wickner, William: Assembly of proteins into membranes. v210 p861-868 21 Nov 80.
- Williams, B. J. See Harvey, H. R.
- Williams, Gary M.; Mazue, Guy; McQueen, Charlene A.; Shimada, Tomiko: Genotoxicity of the antihypertensive drugs hydralazine and dihydralazine. v210 p329-330 17 Oct 80.
- Wilson, Charles L. See Halgren, Eric.
- Wilson, Leslie: review of *Microtubules*, edited by K. Roberts and J. S. Hyams. v210 p57 3 Oct 80.
- Wilson, W. H. See Hovis, W. A.
- Winans, Sarah S. See Lehman, Michael N.
- Winner, W. E. and Mooney, H. A.: Responses of Hawaiian plants to volcanic sulfur dioxide: stomatal behavior and foliar injury. v210 p789-791 14 Nov 80.
- Wittig, Georg: From diyls to yllides to my idyll. v210 p600-604 7 Nov 80.
- Wohlenberg, Charles. See Sekizawa, Tsuyoshi.
- Wong, C. S. See Bacastow, R. B.
- Wood, E. H. See Ritman, E. L.
- Woodhead, D. S.: review of *Radiation Effects on Aquatic Organisms*, edited by Nobuo Egami. v210 p891-892 21 Nov 80.
- Woods, J. S. See Bumb, R. R.
- Worsley, Thomas R. and Herman, Yvonne: Episodic ice-free Arctic Ocean in Pliocene and Pleistocene time: calcareous nannofossil evidence. v210 p323-325 17 Oct 80.
- Wrann, Michael; Fox, C. Fred; Ross, Russell: Modulation of epidermal growth factor receptors on 3T3 cells by platelet-derived growth factor. v210 p1363-1365 19 Dec 80.
- Wrather, Joan: "Focus" puts science on the radio (AAAS). v210 p53-54 3 Oct 80.
- Wrigley, R. C. See Hovis, W. A.
- Wrona, Anne F. See Epstein, Emanuel.
- Wu, Francis T.: review of *Earthquake Engineering and Hazards Reduction in China*, edited by Paul C. Jennings. v210 p1340-1341 19 Dec 80.
- Wynder, Ernst L. and Stellman, Steven D.: Bladder cancer and artificial sweeteners: a methodological issue (technical comment). v210 p447-448 24 Oct 80.
- Yatvin, M. B.; Kreutz, W.; Horwitz, B. A.; Shinitzky, M.: pH-Sensitive liposomes: possible clinical implications. v210 p1253-1255 12 Dec 80.
- Yatziv, S. See Slavin, S.
- Yost, Michael. See Diamond, Marian C.
- Young, W. Scott, III; Wamsley, James K.; Zarbin, Marco A.; Kuhar, Michael J.: Opioid receptors undergo axonal flow. v210 p76-78 3 Oct 80.
- Young, William. See Nowinski, Robert.
- Yung, Yuk Ling. See Pinto, Joseph P.
- Zahn, Jean-Paul: review of *Theory of Stellar Pulsation*, by John P. Cox. v210 p1119-1120 5 Dec 80.
- Zarbin, Marco A. See Young, W. Scott, III.
- Ziegler, M. G. See Lake, C. R.
- Zimmerberg, Joshua; Cohen, Fredric S.; Finckelstein, Alan: Micromolar Ca^{2+} stimulates fusion of lipid vesicles with planar bilayers containing a calcium-binding protein. v210 p906-908 21 Nov 80.
- Zimmerman, Janet C. See Czeisler, Charles A.
- Zirker, J. B.: Total eclipses of the sun. v210 p1313-1319 19 Dec 80.