SCIENCE

Index to Volume 182 October–December 1973

Editorial Board		
Gardner Lindzey		
FRANK PRESS		
FRANK W. PUTNAM		
MAXINE SINGER		
RAYMOND H. THOMPSON		
Edward O. Wilson		
GORDON WOLMAN		
ial Staff		
HANS NUSSBAUM Business Manager		
. ABELSON		

Published by the

American Association for the Advancement of Science

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

Printed in Washington, D.C., by McCall Printing Company, Mid-Atlantic Division Copyright 1973 by the American Association for the Advancement of Science

Date of Issue	Danaa
	Pages
23 November	757–864
30 November	865-956
7 December	957-1055
14 December	10561188
21 December	1189–1 2 88
28 December	1289–1380
	 23 November 30 November 7 December 14 December 21 December

The names of authors of books reviewed are in SMALL CAPITALS.

A

- AAAS annual meeting, 399, 509, 604, 738, 848, 948, 1048, 1162, 1280, 1374 AAAS Council meeting, W. Bevan, 408 ABELES, F. B., Ethylene in plant biology, book review of, 1241 Abelson, P. H. (editorials): The central role of abamietry 530; Comparations
- role of chemistry, 539; Corporations and the less developed countries, 873; Energy independence, 779; The federal science advisory apparatus, 13; Increas-ing world energy supplies, 1087; Let the bestende forcer in the deck (57, A new bastards freeze in the dark, 657; A new international program, 119; Prevention of cancer, 973; Underground gasification of coal, 1297; The urgent need for energy conservation, 339 Abraham, B. M. See Morss, L. R., et al.
- Acquisition and retentions of long-term habituation in *Aplysia*: correlation of behavioral and cellular processes, T. J. Carew and E. R. Kandel, 1158

- Carew and E. R. Kandel, 1158 Acute lymphoblastic leukemic cells with T (thymus-derived) lymphocyte mark-ers, J. H. Kersey et al., 1355 Adam, E. See Hollinshead, A. C., et al. Adelberg, S. G. See Vyas, G. N., et al. Administration of grant funds (letter), W. A. Calder, 1085 Aggregation of HL-A antigens at the lymphocyte surface induced by anti-serum to $\beta_{3^{-}}$ microglobulin, M. D. Poulik et al., 1352 Agostoni, A., et al.: Oxygen affinity and electrolyte distribution of human blood: changes induced by propranolol, 300
- changes induced by propranolol, 300 Agricultural research policies (letters), P.
- B. Sears et al., 10
- Ahlskog, J. E., and B. G. Hoebel: Over-eating and obesity from damage to a noradrenergic system in the brain, 166 Air pollution and lichens, B. W. FERRY *et al.* (Eds.), *book review* by I. M. Brodo, 275
- Air pollution monitoring by advanced spectroscopic techniques, J. A. Hodge-
- Akiskal, H. S., and W. T. McKinney, Jr.: Depressive disorders: toward a unified hypothesis, 20
- Albatross award, The (letters), R. Walker and J. J. Marcus, 220 Albee, A. See Heizer, R. F., et al. Albritton, C.: book review of The history
- of the study of landforms or the devel-opment of geomorphology, 375 Alewine, R. W., III. See Ellsworth, W. L.,
- et al.

- Alexander, N. J., and A. M. Sackler: Vasectomy: long-term effects, 946
- Alkylpyrazine alarm pheromones in pon-erine ants, J. W. Wheeler and M. S. Blum, 501
- Allen, G., et al.: Heritability of IQ by so-
- Allen, C., et al., Heritability of 109 sol-cial class: evidence inconclusive, 1042
 Allen, J. P., and K. G. Henize: Contribu-tions of the space shuttle (letter), 9
 Alley, C. O. See Bender, P. L., et al.
- Allison, B. M. See Kahan, E.
- Allocation of natural resources (letters), L. A. Sagan et al., 1296 Almon, R. R. See Andrew, C. G., et
- al.
- Alteration of disc formation in photoreceptors of rat retina, D. J. Landis et al., 1144
- Amaral, D. J. See Kates, R. W., et al. Amos, D. B., et al.: Human histocompatibility antigens and susceptibility to dis-
- and susceptionity to disease and susceptionity to disease, 183 Amphibian pituitary growth hormone and prolactin: immunochemical relatedness to rat growth hormone, T. Hayashida *et al.*, 169 Analysis of ritual: metaphoric correspon-
- dences as the elementary forms, J. W. Fernandez and V. Turner, 1366 Anastassakis, E. See Rothschild, K. J.,
- et al.
- Anders, E., et al.: Organic compounds in
- Anderson, P. M.: book review of The en-zyme of glutamine metabolism, 1015 Anderson, R. E. See Benolken, R. M., et
- Anderson, K. E. See Benolken, R. M., et al. See also Landis, D. J., et al.
 Andrew, C. G., et al.: Phosphorylation of muscle membranes: identification of a membrane-bound protein kinase, 927
 Animal cytology and evolution, M. J. D. WHITE, book review by C. P. Swanson, 154
- 154
- Annis, R. C., and B. Frost: Human visual

- Annis, R. C., and B. Frost: Human visual ecology and orientation anisotropies in acuity, 729
 Annual review of earth and planetary sciences, F. A. DONATH et al. (Eds.), book review by W. K. Hartmann, 706
 Antibodies to herpesvirus nonvirion antigens in squamous carcinomas, A. C. Hollinshead et al., 713
 Anton, A. H., et al.: Dopa and dopamine in Glusulase: possible artifact in studies on catecholamine metabolism, 60
 APA self-analysis (letters), P. Chodoff and R. R. Monroe, 9
 Apatite, D. MC CONNELL, book review by D. R. Simpson, 816

- Aplysia giant cell: soma-axon voltage clamp current differences, R. T. Kado, 843
- Apollo Field Geology Investigation Team: Geologic exploration of Taurus-Littrow:
- Apollo landing site, 672 Apollo 17 lunar samples: chemical and petrographic description, Apollo 17 Pre-liminary Examination Team, 659 Apollo 17 Preliminary Examination Team:
- Apollo 17 lunar samples: chemical and
- Apollo 17 renar annual samples. Chemical and petrographic description, 659 Apollo 17 report on the Valley of Taurus-Littrow, H. H. Schmitt, 681 Appel, S. H. See Andrew, C. G., et al.
- Application of the elution certrifuge to separation of polynucleotides with the use of polymer phase systems, Y. Ito and R. L. Bowman, 391
- Appointments to working government councils (letter), J. H. Comroe, Jr., 220
- councils (letter), J. H. Comroe, Jr., 220 Aquatic respiration: an unusual strategy in the hellbender Cryptobranchus al-leganiensis alleganiensis (Daudin), R. W. Guimond and V. H. Hutchison, 1263 ARMSTEAD, H. C. H. (Ed.), Geothermal energy, book review of, 156 Arnason, B. G. W. See Hier, D. B., et al. Aronofsky, J. See Greenberger, M., et al. Arp, H. See Bohannan, P., et al. Arthropod-borne viruses of vertebrates, The, M. THEILER and W. G. DOWNS, book review by T. H. Work, 273

- review by T. H. Work, 273

- The, M. THEILER and W. G. DOWNS, book review by T. H. Work, 273 Artifacts of early man in the New World, M. P. M. Wade and V. Haynes, 1371 Asaro, F. See Heizer, R. F., et al. Asher, I. M. See Rothschild, K. J., et al. Asteroidal source of meteorites, P. D. Zimmerman and G. W. Wetherill, 51 Astronomical puzzle called Cygnus X-3, An, R. M. Hjellming, 1089 Atmosphere on Ganymede from its oc-cultation of SAO 186800 on 7 June 1972, An, R. W. Carlson et al., 53 Atmospheric energetics, J. VAN MIEGHEM, book review by S. K. Kao, 48 Atmospheric research (letters), G. E. Stout and J. P. Lodge, Jr., 1294 Attinger, E. O.: book review of Mathe-matical physiology, 914 Auster, S. L., et al.: Community mental health (letters), 870 Auto pollution research (letters), P. C. White and J. S. Fordyce, 774 Automotive emissions (letter), A. C. Nivon 967

- Automotive emissions (letter), A. C. Nixon, 967 Avent, J. C. See Lange, I. M. Axonal transport—simple diffusion?, A. Magid et al., 180

- Bach, M. L., et al.: β_2 -Microglobulin: association with lymphocyte receptors, 1350
- Bada, J. L. See Schroeder, R. A. BADDELEY, M. S. See FERRY, B. W., et al. Bagnara, J. T., et al.: Color changes, unusual melanosomes, and a new pigment from leaf frogs, 1034 Bailey, G. W., *et al.*: Competitive hydra-tion of quinazoline at the montmoril-
- tion of quinazoline at the montmoril-lonite-water interface, 819 Balagura, S., et al.: Glucodynamic hor-mones modify the recovery period after lateral hypothalamic lesions, 59 Ball, F. See Shively, J. M., et al. BALLS, M., and F. S. BILLETT (Eds.), The coll coll differenti
- cell cycle in development and differenti-
- cell cycle in development and differenti-ation, book review of, 274 Banerjee, S. P., and S. H. Snyder: Methyl-tetrahydrofolic acid mediates N- and O-methylation of biogenic amines, 74 Bank, R. See Curran, W. J., et al. Barath, F. T. See Staelin, D. H., et al. Baretta, E. D. See Stewart, R. D. et al. Barkalov, I. M. See Goldanskii, V. I., et al. Barker, J. L., and H. Gainer: Pentobar-bital: selective depression of excitatory

- bital: selective depression of excitatory

- bital: selective depression of excitatory postsynaptic potentials, 720
 Baron, A. See Puretz, D. H., et al.
 Barrett, A. H. See Staelin, D. H., et al.
 Barth, C. A. See Fastie, W. G., et al.
 Bartko, J. J. See Carpenter, W. T., et al.
 Bartova, A. See Oliver, J. T., et al.
 Bassler, T. J.: Long-distance runners (letter), 113
 Baum, M. J., and J. T. M. Vreeburg: Copulation in castrated male rats following combined treatment with estralowing combined treatment with estra-diol and dihydrotestosterone, 283
- Baumal, R., et al.: Mutations in immunoglobulin-producing mouse myeloma cells, 164
- BEATTY, R. A., and S. GLUECKSOHN-WAELSCH (Eds.), The genetics of the spermato-zoon, *book review* of, 817 Beck, B. B.: Cooperative tool use by cap-
- tive hamadryas baboons, 594 Becker, R. H., et al.: Oceanic growth models, 601
- BECKINSALE, R. P. See CHORLEY, R. J., et al. Beer, B. See Pichichero, M., et al. Beginnings of metallurgy: a new look, T.
- A. Wertime, 875 Behaviour of micro-organisms, A. PÉREZ-
- MIRAVETE (Ed.), book review by E. C. Bovee, 914
- Behavioural aspects of parasite transmis-
- sion, E. U. CANNING and C. A. WRIGHT (Eds.), *book review* by R. Pertel, 1124 Bellet, E. M., and J. E. Casida: Bicyclic phosphorus esters: high toxicity without cholinesterase inhibition, 1135

- Bellotti, A. C. See Pimentel, D., et al. Belmont, L., and F. A. Marolla: Birth order, family size, and intelligence, 1096 Bender, P. L., et al.: The lunar laser ranging experiment, 229 Bengelsdorf, I. S.: Letter to Pravda (let-tay) 324
- ter), 334
- Benolken, R. M., et al.: Membrane fatty acids associated with the electrical response in visual excitation, 1253
 Benton, E. V., et al.: Heavy-particle radiography, 474
- Benveniste, R. E. See Lieber, M. M., et al.
- Berdick, M.: Safety of cosmetics (letter), 1080 Berfasconi, C. See Agostoni, A., et al.
- BERG, A., The nutrition factor, book review of, 155
- Berg, C. A. See Blair, A., et al.
- Berg, R. A. See Olsen, B. R., et al.
- Berger, W. H.: book review of Distribu-tion and ecology of living benthic foraminiferids, 154
- Bernoco, D. See Poulik, M. D., et al.
- Bernoco, M. See Poulik, M. D., et al.

Bevan, W.: AAAS council meeting, 1973

- Bhattacharyya, J. C. See Carlson, R. W., et al.
- Bicyclic phosphorus esters: high toxicity without cholinesterase inhibition, E. M.
- Bellet and J. E. Casida, 1135 Bide, R. W. See Janke, N. C., et al. "Big" growth hormone components from
- human plasma: decreased reactivity demonstrated by radioreceptor assay, P. Gordon *et al.*, 829
- Bigfoot, J. NAPIER, book review by D. Chitty, 376 BILLETT, F. S. See BALLS, M. Billings, D. E.: book review of The quiet sun, 706
- Bing, F. C.: book review of Notes on the history of nutrition research, 377
- Biology of blue-green algae, The, CARR and B. A. WHITTON (Eds.), review by O. Holm-Hansen, 1240 book
- Biology of hydra, A. L. BURNETT (Ed.), book review by H. M. Lenhoff, 275
 Birmingham, M. K. See Oliver, J. T., et al.
 Birmingham, T. J. See Hess, W. N., et al.
 Birshtein, B. K. See Baumal, R., et al.

- Birth order, family size, and intelligence, L. Belmont and F. A. Marolla, 1096 Bisti, S. See Maffei, L., et al. Black, P. H. See Profitt, M. R., et al.

- Black, P. H. See Profitt, M. R., et al.
 Blair, A., et al.: Energy conservation (letters), 967
 Blanc, G. See Thierry, A. M., et al.
 Blank, K., and J. M. Enoch: Monocular spatial distortions induced by marked accommodation, 393
 Bloch, K. See Goldberg, I., et al.
 Blum, M. S. See Wheeler, J. W.
 Bohannan, P., et al.: Heritability of intelligence (letters), 115
 Bökönyi, S., et al.: Earliest animal domestication dated?, 1161
 Borel, Y., et al.: Prevention of murine

- Borel, Y., et al.: Prevention of murine lupus nephritis by carrier-dependent in-duction of immunologic tolerance to

- duction of immunologic tolerance to denatured DNA, 76 Bové, J. M. See Tully, J. G., et al. See also Whitcomb, R. F., et al. Bovee, E. C.: book review of Behaviour of micro-organisms, 914 Bowman, H. See Heizer, R. F., et al. Bowman, R. L. See Ito, Y. Brady, J. V. See Harris, A. H., et al. Braidwood, R. J. See Bökönyi, S., et al. Brain-pituitary-adrenal interrelationships, Z. BRODISH and E. S. REDGATE (Eds.).
- Z. BROJSH and E. S. REDGATE (Eds.), book review by M. Sage, 575
 Brain tryptophan hydroxylation: depen-dence on arterial oxygen tension, J. N.
- Davis et al., 72 Braman, R. S., and C. C. Foreback: Methylated forms of arsenic in the en-
- vironment, 1247
- Bretsky, S. S. See Blair, A., et al.
- BREWER, G. D., Politicians, bureaucrats, and the consultant, book review of, 1335 Brinkmann, R. T. See Carlson, R. W.,
- et al.
- er al.
 BRODISH, Z., and E. S. REDGATE (Eds.), Brain-pituitary-adrenal interrelationships, book review of, 575
 Brodo, I. M.: book review of Air pollu-tion and lichens, 275
 Broecker, W. S.: Environmental priorities (editorial), 435
- Bronson, F. H. See Desjardins, C., et al.
- Brooker, G.: Oscillation of cyclic adenosine monophosphate concentration dur-ing the myocardial contraction cycle, 933
- Brown, D. H. See Shively, J. M., et al.
- Brown, D. S. See Bailey, G. W., et al.
- Brown, L. R.: A Sino-American Sovbean Research Institute (editorial), 227 Brown, R. A. See Ogden, J. C., et al.
- Brownlee, D. E., and R. S. Rajan: Micro-meteorite craters discovered on chon-drule-like objects from Kapoeta mete-orite, 1341

- Bryan, J. S. See Krasne, F. B.
 Budnick, J. I.: book review of Nuclear magnetic resonance in ferro- and antiferromagnets, 915
 Bugg, C. E. See Sternglanz, H.
 Bullock, D. W.: Identification of commercial sources (letter), 535
 UNNET A. L. (Ed.) Biology of hydro.
- BURNETT, A. L. (Ed.), Biology of hydra, book review of, 275
- BUTCHER, J. N. (Ed.), Objective person-
- ality assessment, book review of, 574 Butcher, R. W., et al.: Insulin activity: the solid matrix, 396 Byers, P. H. See Lichtenstein, J. R., et al.

С

- Cadwalader, G.: Freedom for science in
- Calder, W. A.: Administration of grant funds (letter), 1085
 Calman, J., and R. H. Smith: Screwworm control (letters), 775
 Camerman, A. See Camerman, N., et al
- al.
- can can be called a structure of a dinucleotide: thy midylyl-(5' \rightarrow 3')-thy midyl-ate-5' (pTpT), 1142 Campbell, R. H. See Ellsworth, W. L.,

CANNING, E. U., and C. A. WRIGHT (Eds.), Behavioural aspects of parasite trans-mission, *book review* of, 1124 Capranica, R. R., et al.: Encoding of geographic dialects in the auditory system of the cricket frog, 1272Carbon dioxide and pH: effect on species succession of algae, J. C. Goldman and

Carboxynemogroom concentrations in blood from donors in Chicago, Milwaukee, New York, and Los Angeles, R. D. Stewart et al., 1362
 Carew, T. J. See Pinsker, H. M., et al.
 and E. R. Kandel: Acquisition and retention of long-term habituation in Anlysis: correlation of behavioral

in *Aplysia*: correlation of behavioral and cellular processes, 1158 Carlson, R. W., *et al.*: An atmosphere on

Carpenter, W. T., Jr., et al.: Flexible sys-

Pilot Study of Schizophrenia, 1275 CARR, N. G., and B. A. WHITTON (Eds.)

tem for the diagnosis of schizophrenia: report from the WHO International

The biology of blue-green algae, book review of, 1240 Carter, L. J. (News and Comment): Con-

gress and Soviet détente, 148; Dominick leaves Environmental Protection Agen-

cy, 148; environment and the energy

crisis, 1324; environmental impact state-

ments, 462; land use law, 691 (*erratum*, 908), 902; offshore oil, 564; Peterson named chairman of Council on Envi-ronmental Quality, 370; Sakharov and U.S.-Soviet détente, 370; water projects and their "pork barrel" image, 266. See

Cell cycle in development and differentia-

tion, The, M. BALLS and F. S. BILLETT

(Eds.), book review by P. J. Stam-brook, 274

brook, 274 Central role of chemistry, The (editorial), P. H. Abelson, 539 Ceppellini, R. See Poulik, M. D., et al. Chaganti, R. S. K. See German, J. Challenges for science education (AAAS), D. I. Phillips, 1048 Chan, T. See Green, H. Chan, T. H. See Oliver, J. T., et al.

Changing women in a changing society,

also Holden, C. Casida, J. E. See Bellet, E. M. Casner, P. See Lehr, D., et al.

Ganymede from its occultation of SAO 186800 on 7 June 1972, 53 Carlsson, A. See Davis, J. N., et al. Carmel, P. W. See Zimmerman, E. A., et al.

concentrations

in

et al.

J. Shapiro, 306 Carboxyhemoglobin

- Chanley, J. D. See Rosenblatt, S., et al. Chard, C. S.: book review of Ice-age hunters of the Ukraine, 573 Charles Whittlesey (letter), R. W. Dex-
- ter, 651
- Charlson, R. J.: book review of Chemistry of the lower atmosphere, 575. See also McJilton, C., et al. Chase, C. G. See Becker, R. H., et al. Chatterjee, I. B.: Evolution and the bio-

- synthesis of ascorbic acid, 1271 Cheatham, T. E., Jr., *et al.*: Computing in China: a travel report, 134 Chemical facilitation of thermal conduc-
- tion in physiological systems, B. A. Hills, 823 Chemistry of platinum and palladium, The, F. R. HARTLEY, book review by R.
- Heck, 49 Chemistry of the lower atmosphere, s. 1.
- RASOOL (Ed.), book review by R. J. Charlson, 575
- Chimpanzee spatial memory organization,
- E. W. Menzel, 943 Chitty, D.: *book review* of Bigfoot, 376 Chodoff, P., and R. R. Monroe: APA self-analysis (*letters*), 7
- Choline acetyltransferase activity is in-creased in combined cultures of spinal cord and muscle cells from mice, E. L. Giller, Jr., et al., 588 Chondrites: initial strontium-87/stron-
- tium-86 ratios and the early history of the solar system, G. W. Wetherill *et al.*, 281
- Chondrules: an origin by impacts between dust grains, D. E. Lange and J. W. Larimer, 920
- CHORLEY, R. J., et al., The history of the study of landforms or the development of geomorphology, *book review* of, 375 Chretien, P. B. *See* Hollinshead, A. C.,
- et al. Christensen, B. N.: Procion brown: an
- intracellular dye for light and electron microscopy, 1255 Clark, W. A. See Cheatham, T. E., Jr.,
- et al.
- CLARKE, E., and K. DEWHURST, An illus-trated history of brain function, book review of, 707 Clayton, R. N., et al.: Component of

- Clayton, R. N., et al.: Component of primitive nuclear composition in carbonaceous meteorites, 485
 Clody, D. E. See Pichichero, M., et al.
 Coccidia, The, D. M. HAMMOND and P. L. LONG (Eds.), book review by K. S. Todd, Jr., 709
 Coffino, P. See Baumal, R., et al.
 Cognitive consequences of formal and informal education, S. Scribner and M. Cole. 553
- Cole, 553 Cohen, D. H., et al.: Electrophysiological
- cohen, D. H., et al. Electrophysiological identification of a visual area in shark telencephalon, 492
 Cohen, N. See Turpen, J. B., et al.
 Cole, M. See Scribner, S.

- Collagen synthesis: localization of prolyl hydroxylase in tendon cells detected with ferritin-labeled antibodies, B. R. Olsen *et al.*, 825 Collins, J. P. See Wilbur, H. M.
- Color changes, unusual melanosomes, and a new pigment from leaf frogs, J. T. Bagnara *et al.*, 1034
- Colossi of Memnon revisited, The, R. F. Heizer et al., 1219 Combs, J.: book review of Geothermal
- energy, 156 Community mental health (letters), S. L.
- Auster et al., 870 Competitive hydration of quinazoline at
- the montmorillonite-water interface, G. W. Bailey et al., 819
- Complete amino acid sequence of the Mu heavy chain of a human IgM immuno-

- globulin, F. W. Putnam et al., 287 Component of primitive nuclear composition in carbonaceous meteorites, A, R. N. Clayton et al., 485
- Computer and information networks, M.
- Greenberger et al., 29 Computer assisted chemical research de-
- sign (meeting report), H. B. Mark, Jr., and S. Fujiwara, 606
- Computing in China: a travel report, T. E. Cheatham, Jr., *et al.*, 134 Comroe, J. H., Jr.: Appointments to work-
- ing government councils (*letter*), 220 Cone, R. A. See Fein, A. Conformation of N⁶-methyladenine, a base involved in DNA modification: re-
- striction processes, H. Sternglanz and
- C. E. Bugg, 833 Conrath, B. J. See Curran, R. J., et al. Contributions of the space shuttle (let-ter), J. P. Allen and K. G. Heinze, 9
- Control of guanylate cyclase activity in
- the rod outer segment, R. G. Pann-backer, 1138 Control of transcription (meeting report),
- R. K. Mandal, 1165 Cooperative tool use by captive hama-dryas baboons, B. B. Beck, 594 Copulation in castrated male rats follow-
- ing combined treatment with estradiol and dihydrotestosterone, M. J. Baum and J. T. M. Vreeburg, 283 Copyright laws (*letter*), J. L. Olsen, Jr.,

- Corbalan, R. See Lown, B., et al. Cornet, B., et al.: Fossil spores, pollen, and fishes from Connecticut indicate Early Jurassic age for part of the Newark Group, 1243
- Cornwall, H. R. See Huber, N. K. Corporations and the less developed coun-
- tries (editorial), P. H. Abelson, 873 Coser, R. L.: book review of Changing
- women in a changing society, 471
- Covers: abdominal surface of female wolf spider (14 Dec.); baboon (9 Nov.); brain cells of cockroach (19 oct.); computer montage (23 Nov.); echinoids (16 Nov.); Glen Canyon Dam and Lake Powell (30 Nov.); infrared images of southeastern United States (2 Nov.); lobster with sea urchins (7 Dec.); mangrove roots (12 Oct.); ocean (5 Oct.); St. Augustine Volcano, Alaska (26 Oct.); salamander egg mass (28 Dec.); statues of Amenhotep III (21 Dec.)
- CRACKNELL, A. P., and K. C. WONG, The Fermi surface, book review of, 1240
- Crofford, O. B. See Butcher, R. W., et al. Crotty, W. J., and M. C. Ledbetter: Membrane continuities involving chloroplasts
- and other organelles in plant cells, 839 Crowding among hunter-gatherers: the !Kung Bushmen: P. Draper, 301
- Crowson, R. A.: book review of History
- Crowson, R. A.: book review of History of entomology, 1013
 Cruickshank, A. M.: Gordon Research Conferences, winter program, 1974 (meeting report), 505
 Cruikshank, D. P., et al.: Volcanic gases: hydrogen burning at Kilauea Volcano, Howei 277
- Hawaii, 277
- Hawaii, 277 CSANADY, G. T., Turbulent diffusion in the environment, book review of, 707 Cuatrecasas, P. See Butcher, R. W., et al. Culliton, B. J. (News and Comment): biomedical support in 1973, 1325; budget consolidation proposed for all institutes at the National Institutes of Health 460; charging research patients Health, 460; charging research patients at NIH, 802; court order opens study sections, 1328; medical devices and public protection, 565; scientists and the public interest, 367; Sloan-Kettering Cancer Center, 1000; training grants, 265, 563; Virus Cancer Program, 1110 Curran, R. J., et al.: Mars: Mariner 9

spectroscopic evidence for H₂O ice

clouds, 381
 Curran, W. J., et al.: Protection of privacy and confidentiality, 797
 Currie, D. G. See Bender, P. L., et al.
 Curry, T. H.: Unemployment among biological (Letter) 1204

gists (letter), 1294

D

- Daniels, J. D. See Pettigrew, J. D., and J. D. Daniels
- Davis, J. N., et al.: Brain tryptophan hydroxylation: dependence on arterial oxygen tension, 72 Davison, A. See Seyferth, D. Decker, R. H. See Vyas, G. N., et al. de Duve, C.: Origin of mitochondria, 85

- Deep-sea drilling (letter), L. W. Finlay, 1194
- Defect in conversion of procollagen to collagen in a form of Ehlers-Danlos syndrome, J. R. Lichtenstein *et al.*, 298

- syndrome, J. R. Lichtenstein et al., 298
 DeFoliart, G. R. See Watts, D. M., et al.
 Delayed recovery of function following orbital prefrontal lesions in infant monkeys, E. A. Miller et al., 304
 Denholm, A. S. See Blair, A., et al.
 Departments and disciplines: stasis and change, R. Straus, 895
 Depressive disorders: toward a unified hypothesis, H. S. Akiskal and W. T. Mc-Kinney, Jr., 20
 DeRycke, R. J. See Strong, A. E.
 Desjardins, C., et al.: Social rank in house mice: differentiation revealed by ultraviolet visualization of urinary marking patterns, 939 patterns, 939 DeSombre, E. R. See Jensen, E. V.
- Developmental nephrology, w. w. Mc-CRORY, book review by T. W. Torrey, 48 DEWHURST, K. See CLARKE, E. DeWitt, B.: book review of The large scale structure of space-time, 705 Devter, B. W. Charles Whitthew (Letter)
- Dexter, R. W.: Charles Whittlesey (letter),
- 651^{*}
- Dicke, R. H. See Bender, P. L., et al. Dieter, G. E.: University cooperation with industry (letter), 434
- industry (letter), 434 Diffusion of weak acids across lipid bilayer membranes: effects of chemical reactions in the unstirred layers, J. Gutknecht and D. C. Tosteson, 1258 DiMauro, P. M. M. See DiMauro, S. DiMauro, S., and P. M. M. DiMauro: Muscle carnitine palmityltransferase de-ficiency and myoglobinuria, 929 Dioptrics of the periphery of the eye, A. Lamont et al., 86 Diphtheria, A. M. Pappenheimer, Ir., and

- Diphtheria, A. M. Pappenheimer, Jr., and D. M. Gill, 353 Direct evidence for a colchicine-induced impairment in the mobility of membrane components, F. Wunderlich *et al.*, 1136
- Disposal of nuclear wanternen et al., 1130 and D. J. Rose, 1205 Distribution and ecology of living benthic foraminiferids, J. W. MURRAY, book re-view by W. H. Berger, 154
- Doba, N. See Reis, D. J., et al.
- DOMB, C., and M. S. GREEN (Eds.), Phase transitions and critical book review of, 576 phenomena.
- Domestication of pulses in the Old World, D. Zohary and M. Hopf, 887
- Donahue, T. M. See Fastie, W. G., et al. DONATH, F. A., et al. (Eds.), Annual re-view of earth and planetary sciences, book review of, 706

Dopa and dopamine in glusulase: possible

Dopamine- β -hydroxylase: evidence for in-

Dopamine synthesis: stimulation by a hy-

artifact in studies on catecholamine metabolism, A. H. Anton et al., 60

creased activity in sympathetic neurons during psychotic states, S. Rosenblatt et al., 923

pothalamic factor, E. Friedman et al., 831

- Dopaminergic terminals in the rat cortex, A. M. Thierry *et al.*, 499
- DOWNS, W. G. See THEILER, M. Drachman, D. B. See Fambrough, D. M.,
- et al. Draper, P.: Crowding among hunter-gath-erers: the !Kung Bushmen, 301
- DRICKAMER, H. G., and C. W. FRANK, Electronic transitions and the high pressure chemistry and physics of solids, book review of, 707
- DRYER, M. See MC INTOSH, P. S.

- DRYER, M. See MCINTOSH, P. S. DUANE, D. B. See SWIFT, D. J. P., et al. Dudley, P. A. See Landis, D. J., et al. Duff, T. A. See Cohen, D. H., et al. Dunbar, M. J.: Glaciers and nutrients in Arctic fords, 398 Dunlop, N. M. See Sporn, M. B., et al.
- DUNN. A. J. See CHORLEY, R. J., et al.
- Dvornik, D., et al.: Polyol accumulation in galactosemic and diabetic rats: con-
- trol by an aldose reductase inhibitor, 1146
 - Е
- Earliest animal domestication dated?, S.
- Bökönyi *et al.*, 1161 Early social responses in *Gallus*: a func-tional analysis, H. B. Graves, 937 Earthquake-induced structures in sedi-
- ments of Van Norman Lake, San Fer-nando, California, J. D. Sims, 161 Earthquakes of strike-slip type in central
- California: evidence on the question of dilatancy, T. V. McEvilly and L. R. Johnson, 581
- Earth's magnetospheric processes, B. M. MC CORMAC (Ed.), book review by C. Kennel, 816
- Ebbesson, S. O. E. See Cohen, D. H., et al.
- Eckhardt, D. H. See Bender, P. L., et al. Eckhardt, D. H. See Bender, P. L., et al.
 Ecological aspects of amphibian metamorphosis, H. M. Wilbur and J. P. Collins, 1305
 Ecological genetics and natural selection in molluscs, J. S. Jones, 546
 Economics of environmental policy, The, A. M. FREEMAN III et al., book review by K. N. Lee, 911
 Economies and the environment, M. EDEL, book review by K. N. Lee, 911

- book review by K. N. Lee, 911 Ectomycorrhizae, G. C. MARKS and T. T. KOZLOWSKI (Eds.), book review by J.
- Major, 1014 EDEL, M., Economies and the environment, book review of, 911 EDELSACK, E. A. See GREGORY, W. D., et al. Editorials: The central role of chemistry,
- 539; Corporations and the less devel-oped countries, 873; Energy indepen-dence, 779; Environmental priorities, 435; The federal science advisory ap-435; The federal science advisory apparatus, 13; Increasing world energy supplies, 1087; Let the bastards freeze in the dark, 657; A new international program, 119; Prevention of cancer, 973; Regulation of human experimentation, 1203; A Sino-American Soybean Research Institute, 227; Underground gasification of coal, 1297; The urgent need for energy conservation, 339 Effect of restricted use of phosphate-based detergents on Onondaga Lake, C. B.
- detergents on Onondaga Lake, C. B. Murphy, Jr., 379 Effects of dibutyryl cyclic AMP on resto-
- ration of function of damaged sciatic nerve in rats, M. Pichichero *et al.*, 724 Effects of irradiation on the skeleton, The, J. M. VAUGHAN, *book review* by J. H.
- Marshall, 818 Elder, R. L.: Lasers and eye protection (*letter*), 1080 Electrical signs of selective attention in

the human brain, S. A. Hillyard et al., 177

- Electromagnetic separation of isotopes at Oak Ridge, L. O. Love, 343
 Electronic transitions and the high pressure chemistry and physics of solids, H. G. DRICKAMER and C. W. FRANK, book
- review by A. Jayaraman, 707 Electrophoretic variation in *Escherichia* coli from natural sources, R. Milkman, 1024
- Electrophysiological identification of visual area in shark telencephalon, D.
 H. Cohen *et al.*, 492
 ELLIS, G. F. R. See HAWKINS, S. W.
 Ellsworth, W. L., *et al.*: Point Mugu, Collegation and there is a first set.
- Ellsworth, W. L., et al.: Point Mugu, California, earthquake of 21 February 1973 and its aftershocks, 1127 Encoding of geographic dialects in the auditory system of the cricket frog, R. R. Capranica et al., 1272 Energy conservation (letters), A. Blair et al., 967 Energy, ecology, economy, G. GARVEY, book review by K. N. Lee, 911 Energy independence (editorial), P. H. Abelson, 779 Enoch, J. M. See Blank, K. Environmental priorities (editorial), W.

- Environmental priorities (editorial), W. S. Broecker, 435 Enzymes of glutamine metabolism, The,
- s. PRUSINER and E. R. STADTMAN (Eds.) book review by P. M. Anderson, 1015 Erlenmeyer-Kimling, L. See Allen, G., et al.
- al. Errata: for L. J. Carter (16 Nov., p. 694), 908; for R. Gillette [181, 730 (1973)], 463; for N. Wade (30 Nov., p. 901), 1008 Errorless discrimination, autoshaping, and
- conditioned inhibition, M. G. Wessells, 941
- Estrogen-receptor interaction, E. V. Jen-sen and E. R. DeSombre, 126 Ethylene in plant biology, F. B. ABELES,
- book review by M. Faust, 1241
- Etzioni, A.: Regulation of human experi-mentation (editorial), 1203
- Evolution and the biosynthesis of ascorbic
- Evolution and the biosynthesis of ascorbic acid, I. B. Chatterjee, 1271
 Evolutionary biology of the Anurans, J. L. VIAL (Ed.), book review by E. E. Williams, 376
 Excess lead in "rusty rock" 66095 and implications for an early lunar differentiation, P. D. Nunes and M. Tatsumulti 2016 moto, 916 Exercise and heart disease (letters), D. H.
- Puretz et al., 1082 Experimental alcoholic hepatitis: a new
- primate model, E. Rubin and C. S. Lieber, 712
- Experimental subacute spongiform virus encephalopathies in primates and other laboratory animals, C. J. Gibbs, Jr., and D. C. Gajdusek, 67

Extra deaths (letter), H. Trefall, 776

F

- Falicov, L. M.: book review of The Fermi
- Faller, J. E. See Bender, P. L., et al.
 Fambrough, D. M., et al.: Neuromuscular junction in myasthenia gravis: decreased
- acetylcholine receptors, 293 Fantino, E. See Wallace, R. F., et al. Fastie, W. G., et al.: A search for far-ultraviolet emissions from the lunar atmosphere, 710
- atmosphere, 710 Fatty acyl-coenzyme A elongation in brain of normal and quaking mice, I. Goldberg *et al.*, 497 Faust, M.: *book review* of Ethylene in plant biology, 1241 Fawcett, J. K. See Camerman, N., *et al.* Federal science advisory apparatus, The (*editorial*), P. H. Abelson, 13

- Feigin, R. D. See Shackelford, P. G. Fein, A., and R. A. Cone: Limulus rho-dopsin: rapid return of transient intermediates to the thermally stable state, 495
- Feinstone, S. M., et al.: Hepatitis A: de-tection by immune electron microscopy of a viruslike antigen associated with
- acute illness, 1026 Feldman, P. D. See Fastie, W. G., et al. Ferguson, E. S.: book review of Under-standing technology, 815 Ferin, M. See Zimmerman, E. A., et al.
- Ferin, M. See Zimmerman, E. A., et al.
 Fermi surface, The, A. P. CRACKNELL and K. C. WONG, book review by L. M. Falicov, 1240
 Fernandez, J. W., and V. Turner: Analysis of ritual: metaphoric correspondences as the elementary forms, 1366
 FERRY, B. W., et al. (Eds.), Air pollution and lichens, book review of, 275
 Figlio, K. M.: book review of An illus-trated history of brain function, 707
 Findley, J. D. See Harris, A. H., et al.
 Finlay, L. W.: Deep-sea drilling (letter), 1194
 FINTER, N. B. (Ed.), Interferons and inter-

- FINTER, N. B. (Ed.), Interferons and inter-

- FINTER, N. B. (Ed.), Interferons and inter-feron inducers, book review of, 708 Fiorentini, A. See Maffei, L., et al. Fischer, H. A. See Magid, A., et al. Fisher, M. E.: book review of Phase transitions and critical phenomena, 576 Fisk, H. R. See Giller, E. L., Jr., et al. Flesh of the gods, P. T. FURST (Ed.), book review by O. C. Stewart, 47 Flexible system for the diagnosis of schizo-phrenia: report from the WHO Inter-national Pilot Study of Schizophrenia, W. T. Carpenter, Jr., et al., 1275 Flora North America (letter), A. V. Hall, 652
- 652

- Florent, G. See Putnam, F. W., et al. Foelix, R. F. See Rovner, J. S., et al. Food production and the energy crisis, D.

hauser, 116

831

al.

- Food production and the energy crisis, D. Pimentel et al., 443
 Forbes, R. B. See Turner, D. L., et al. Fordyce, J. S. See White, P. C.
 Foreback, C. C. See Braman, R. S.
 Forsham, P. H. See Gerich, J. E., et al.
 Forster, M. J. See Pimentel, D., et al.
 Fossil spores, pollen, and fishes from Connecticut indicate Early Jurassic age for part of the Newark Group, B. Cornet et al., 1243 net et al., 1243 Fowler, M.: Marketing the metric system (*letter*), 535 Fractionation services (*letter*), M. Wicker-

Frank, C. W. See DRICKAMER, H. G. Frank, R. See McJilton, C., et al. Frank-Kamenetskii, M. D. See Goldan-

skii, V. I., et al. Frankel, C. See Roberts, A. S., Jr., et al. Frantz, A. G. See Zimmerman, E. A., et al.

Freedom for science in the oceans, G. Cadwalader, 15 FREEMAN, A. M., III, et al., The economics of environmental policy, book review of, 911

of, 911 Freeman, R. D. See Pettigrew, J. D., and R. D. Freeman Freund, G. See Walker, D. W. Frey, P. W.: Student ratings of teaching: validity of several rating factors, 83 Friedman, E., et al.: Dopamine synthesis: stimulation by a hypothalamic factor, 831

Friedman, J. See Friedman, E., et al. Frishkopf, L. S. See Capranica, R. R., et

al. Frost, B. See Annis, R. C. Fujiwara, S. See Mark, H. B., Jr. Functional organelles in prokaryotes: polyhedral inclusions (carboxysomes) of Thiobacillus neapolitanus, J. M.

Shively et al., 584 FURST, P. T. (Ed.), Flesh of the gods, *book review* of, 47

- Gainer, H. See Barker, J. L. Gajdusek, D. C. See Gibbs, C. J., Jr. Gajl-Peczalska, K. See Kersey, J. H., et
- Gamma-aminobutyric acid antagonism in visual cortex: different effects on simple, complex, and hypercomplex neu-rons, J. D. Pettigrew and J. D. Daniels, 81

- Gammeltoff, S. See Butcher, R. W., et al. Garfield, E. See Janke, N. C., et al. Gartner, L. M. See Goldfischer, S., et al. GARVEY, G., Energy, ecology, economy, book review of, 911
 Gaut, N. E. See Staelin, D. H., et al.
 Gavin, J. R., III. See Butcher, R. W., at al.
- et al.
- Gee, J. B. L. See Khandwala, A.
- Gelatin: a poor substrate for a mammalian collagenase, P. A. McCroskery et al., 70
- Genetic variation in marine bivalvia (mollusca), N. P. Wilkins and J. Levinton, 946
- Geneticists and the biology of race cross-ing, W. B. Provine, 790
- Genetics of the spermatozoon, The, R. A. BEATTY and S. GLUECKSOHN-WAELSCH (Eds.), book review by J. C. Lucchesi, 817
- Geodynamics symposium in Mexico (meet-ing report), C. Lomnitz, 607
 Geologic exploration of Taurus-Littrow: Apollo 17 landing site, Apollo Field
 Contracting Tagener Tagener (72) Geology Investigation Team, 672 George Darwin's father (letter), J. E.
- Summers, 535 Geothermal energy, H. C. H. ARMSTEAD
- (Ed.), *book review* by J. Combs, 156 Gerich, J. E., *et al.*: Lack of glucagon response to hypoglycemia in diabetes:
- evidence for an intrinsic pancreatic alpha cell defect, 171
- Gerli, G. C. See Agostoni, A., et al. German, J., and R. S. K. Chaganti: Map-ping human autosomes: assignment of the MN locus to a specific segment in the long arm of chromosome No. 2, 1261
- Gershon, S. See Friedman, E., et al. Gibbs, C. J., Jr., and D. C. Gajdusek: Experimental subacute spongiform virus encephalopathies in primates and other laboratory animals, 67
- GIBSON, E. G., The quiet sun, book review of, 706
- Gifford, R. M. See Sagan, L. A., et al.
- Gill, D. M. See Papenheimer, A. M., Jr. Gill, T. V. See Rumbaugh, D. M., et al. Gille, J.: book review of Radiation proc-
- Gille, J.: book review of Radiation processes in the atmosphere, 1015
 Giller, E. L., Jr., et al.: Choline acetyl-transferase activity is increased in combined cultures of spinal cord and muscle cells from mice, 588
 Gillette, Rhanor, and B. Pomeranz: Neuron geometry and circuitry via the electron microscope intracellular staining
- tron microscope: intracellular staining
- with osmiophilic polymer, 1256 Gillette, Robert (News and Comment): Arab-Israeli war and military R&D, 550, broader Dearters and dilatory R&D, Arab-Israeli war and military R&D, 559; breeder reactors and the cost, 38; coal in western United States, 456: energy crisis, 807; energy and the muddle at the top, 1319; Energy R&D Advisory Council, 898; Federal Energy Office, 1225; nuclear safeguards, 1112
- Gilliam, W. J. See Harris, A. H., et al. Ginsberg, D. M.: book review of The science and technology of superconductivity, 50
- Gittelsohn, A. See Wennberg, J. Glacial-postglacial temperature difference deduced from aspartic acid racemization

- in fossil bones, R. A. Schroeder and J. L. Bada, 479 Glacier in Chile ended a major readvance
- about 36,000 years ago: some global comparisons, J. H. Mercer and C. A. Laugenie, 1017 Glaciers and nutrients in Arctic fiords, M.

- J. Dunbar, 398 Gliemann, J. See Butcher, R. W., et al. Glowinski, J. See Thierry, A. M., et al. Glucodynamic hormones modify the recovery period after lateral hypothalamic lesions, S. Balagura et al., 59
- GLUECKSOHN-WAELSCH, S. See BEATTY, R. A.
- Gold, R. M.: Hypothalamic obesity: the myth of the ventromedial nucleus, 488 Goldanskii, V. I., *et al.*: Quantum low-
- temperature limit of a chemical reaction rate, 1344
- Goldberg, I., *et al.*: Fatty acyl-coenzyme A elongation in brain of normal and

- A elongation in brain of normal and quaking mice, 497 Goldberg, L. I. See Anton, A. H., et al. GOLDBERG, S., The inevitability of patri-archy, book review of, 469 Goldfine, I. D. See Butcher, R. W., et al. Goldfischer, S., et al.: Peroxisomal and mitochondrial defects in the cerebro-henetor ranal syndrome 62
- Goldman, H. W. See Lehr, D., et al.
 Goldman, J. C., and J. Shapiro: Carbon dioxide and pH: effect on species succession of algae, 306
- Goldman, P. S. See Miller, E. A., et al. Goldsmith, T. H.: book review of In-formation processing in the visual sys-tems of arthropods, 913 Gorden, P., et al.: "Big" growth hormone
- components from human plasma: decreased reactivity demonstrated by radio-
- receptor assay, 829 Gordon Research Conferences, winter pro-
- Gordon Research Conferences, winter program, 1974 (meeting report), A. M. Cruickshank, 505
 Graves, H. B.: Early social responses in Gallus: a functional analysis, 937
 Grazing by the echinoid Diadema antillarum Philippi: formation of halos around West Indian patch reefs, J. C. Ogden et al., 715
 Green, H., and T. Chan: Pyrimidine starvation induced by adenosine flyroblasts
- vation induced by adenosine flbroblasts and lymphoid cells: role of adenosine
- deaminase, 836 GREEN, M. S. See DOMB, C. Greenberger, M., et al.: Computer and information networks, 29
- GREGORY, W. D., et al. (Eds.), The science and technology of superconductivity, book review of, 50 Griffin, D. R. See Marler, P. Grossman, L. See Clayton, R. N., et al.
- Ground-based thermal infrared surveys as an aid in predicting volcanic eruptions in the Cascade Range, I. M. Lange and
- J. C. Avent, 279 Guimond, R. W., and V. H. Hutchison: Aquatic respiration: an unusual strategy in the hellbender Cryptobranchus al-leganiensis alleganiensis (Daudin), 1263
- Gupta, I. N.: Premonitory variations in S-wave velocity anisotropy before earth-
- quakes in Nevada, 1129 Gurnett, D. A. See Shawhan, S. D., et al.
- Gutknecht, J., and D. C. Tosteson: Diffusion of weak acids across lipid bilayer membranes: effects of chemical reac-tions in the unstirred layers, 1258

Haas, J. E. See Kates, R. W., et al. Habituation: regulation through presynap-tic inhibition, F. B. Krasne and J. S. Brvan, 590

Hackert, M. L.: book review of Proteinprotein interactions, 1014 Hagar, W. G., and T. R. Punnett: Probit

vii

- transformation: improved method for defining synchrony of cell cultures, 1028
- Hahn, R.: book review of Science and society, 1600–1900, 47
 Haines, E. C.: Insect control (letter), 433
 Hall, A. V.: Flora North America (let-
- ter), 652
- Hallgren, H. M. See Kersey, J. H., et al. Halpern, M.: Retinal projections in blind snakes, 390
- Hammond, A. L. (Research News): big accelerators and a progress report, 1117; quincentenary, 1329; Copernican quincentenary, 1329; I330; geophysics being renewed in Europe, 702; geo-thermal energy, 43; high energy physics in Europe, 372; neutral currents, 372
- In Europe, 372; neutral currents, 372 HAMMOND, D. M., and P. L. LONG (Eds.), The Coccidia, book review of, 709 Hanel, R. A. See Curran, R. J., et al. Hanks, T. C. See Ellsworth, W. L., et al. Hanst, P. L. See Hodgeson, J. A., et al. Harrell, L. See Balagura, S., et al. Harris, A. H., et al.: Instrumental condi-tioning of large-magnitude daily 12-

- tioning of large-magnitude, daily, 12-hour blood pressure elevations in the baboon, 175
- Harris, E. D., Jr. See McCroskery, P. A., et al.
- HARTLEY, F. R., The chemistry of platinum and palladium, book review of, 49 Hartmann, W. K.: book review of An-
- nual review of earth and planetary sci-
- Hatfield, G. W. See Rimerman, R. A. Haurani, F. I.: Vitamin B₁₂ and the megaloblastic development, 78 Hauschka, S. D., and T. H. Shepard: Human fetal research (*letter*), 1294
- HAVEMAN, R. H. See FREEMAN, A. M., III, et al.
- HAWKINS, S. W., and G. F. R. ELLIS, The large scale structure of space-time, book review of, 705
- HAWKSWORTH, D. L. See FERRY, B. W., et al. Hayashida, T., et al.: Amphibian pituitary growth hormone and prolactin: im-munochemical relatedness to rat growth hormone, 169 Hayatsu, R. See Anders, E., et al. Haynes, V. See Wade, M. P. M. Healey, T. See Tart, C. T. Health records (letter), A. B. Ley, 536 Heaton T. H. See Elleworth W. L. et al.

- Heaton, T. H. See Ellsworth, W. L., et al. Heavy-particle radiography, E. V. Benton
- et al., 474 Heck, R.: book review of The chemistry of platinum and palladium, 49 Heizer, R. F., et al.: The Colossi of Mem-
- non revisited, 1219 HELMREICH, E. See JAENICKE, R.
- Hemostasis and blood coagulation, A. J. Quick, 87

- Quick, 87 Hendricks, C. M. See Gorden, P., et al. Hening, W. A. See Pinsker, H. M., et al. Henize, K. G. See Allen, J. P. Henke, R. P. See Benton, E. V., et al. Henry, R. C. See Fastie, W. G., et al. Hepatitis A: detection by immune elec-tron microscopy of a viruslike antigen tron microscopy of a viruslike antigen associated with acute illness, S. M. Fein-
- stone et al., 1026 Heritability of intelligence (letters), P. Heritability of intelligence (letters), P. Bohannan et al., 115
 Heritability of IQ by social class: evidence inconclusive, G. Allen et al., 1042
 Hermann, R. K. See Lavender, D. P., et al.
 Hess, W. N., et al.: Jupiter's radiation belts: can Pioneer 10 survive?, 1021
 Hester, T. R. See Heizer, R. F., et al.
 Hidayat, B. See Carlson, R. W., et al.
 Hier, D. B., et al.: Nerve growth factor: relationship to the cyclic AMP system of sensory ganglia, 79

- Higashi, G. A. See Rovner, J. S., et al. Hileman, J. A. See Ellsworth, W. L., et al.
- Hill, D. P. See Ellsworth, W. L., et al.
 Hills, B. A.: Chemical facilitation of thermal conduction in physiological systematic conduction in physiological systematic conduction. tems, 823
- Hillyard, S. A., et al.: Electrical signs of selective attention in the human brain, 177
- Hink, R. F. See Hillyard, S. A., et al. Hirsch, M. S. See Profitt, M. R., et al. Historical footnote (letter), M. Lomask,
- History of entomology, R. F. SMITH et al. (Eds.), book review by R. A. Crowson, 1013
- 1013
 History of the study of landforms or the development of geomorphology, The, R. J. CHORLEY et al., book review by C. Albritton, 375
 Hjellming, R. M.: An astronomical puzzle called Cygnus X-3, 1089
 Hodgeson, J. A., et al.: Air pollution monitoring by advanced spectroscopic techniques, 248
 Hoebel, B. G. See Ahlskog, J. E.

- Hoebel, B. G. See Ahlskog, J. E. Holden, C. (News and Comment): Abel-son awarded Kalinga prize, 41; blood bankers pressured to unite, 146; Environmental Policy Center as an environmental lobby, 905; Europe joins space shuttle project, 264; higher education study, 697; National Academies together again, 1328; National Institute of Mental Health put in new agency, 461; Research Applied to National Needs (RANN) holds a symposium, 1006; sacking of top black woman at National Aeronautics and Space Administration, 804; urban land use in Yonkers, 692 —— and L. J. Carter (News and Com-
- *ment*): timber study reinforces Nixon policy, 144
- Hollinshead, A. C., et al.: Antibodies to herpesvirus nonvirion antigens in squa-
- herpesvirus nonviron antigens in squamous carcinomas, 713
 Holm-Hansen, O.: book review of The biology of blue-green algae, 1240
 Holmes, J. E., et al.: Medical school policy (letters), 648
 Holt, A. W. See Cheatham, T. E., Jr., at al.
- et al. Holton, J. R., and R. S. Lindzen: Internal gravity wave-mean wind interaction, 85
- gravity wave-mean white interaction, es Hong, R. See Bach, M. L., et al. Hopf, M. See Zohary, D. Hoyer, L. W. See Weiss, H. J. Huang, S.-W. See Bach, M. L., et al. Hubbard, R. F. See Shawhan, S. D., et al. Hubbard, R. G. See Shawhan, S. D., et al.

- changing society, *book review* of, 471 Huber, N. K., and H. R. Cornwall: Keweenawan volcanic sequence, 1373
- Hull, D. L .: book review of Human un-
- derstanding, 1121 Human fetal research (*letter*), S. D. Hauschka and T. H. Shepard, 1294 Human impact of the Managua earth-quake, R. W. Kates *et al.*, 981
- Human understanding, s. TOULMIN, book review by D. L. Hull, 1121
- Human visual ecology and orientation anisotropies in acuity, R. C. Annis and
- anisotropies in acuity, R. C. Annis and B. Frost, 729 Humerus of robust Australopithecus, R. F. Kay and H. M. McHenry, 396 Humm, H. J. See Rehm, A. Hurd, L. E. See Pimentel, D., et al. Husain, M. K. See Zimmerman, E. A.,
- et al.
- Hutchison, V. H. See Guimond, R. W. Hyperactivity and brain catecholamines in lead-exposed developing rats, M. W.
- Sauerhoff and I. A. Michaelson, 1022
- Hypertensive action of 18-hydroxydeoxy-corticosterone, J. T. Oliver et al., 1249
 Hypothalamic obesity: the myth of the ventromedial nucleus, R. M. Gold, 488

- Ice-age hunters of the Ukraine, R. G. KLEIN, book review by C. S. Chard, 573 Identification of commercial sources (*let-ter*), D. W. Builock, 535 IDLER, D. R. (Ed.), Steroids in nonmam-malian vertebrates, book review of, 915
- Illness, immunity, and social interaction, G. E. Moss, *book review* by S. L. Syme, 912
- Illustrated history of brain function, An, E. CLARKE and K. DEWHURST, book re-view by K. M. Figlio, 707
- Impairment of timing behavior after pro-longed alcohol consumption in rats, D. W. Walker and G. Freund, 597
- Increasing world energy supplies (edito-rial), P. H. Abelson, 1087
- Induction of an enzyme in genetically deficient rats after grafting of normal liver, A. B. Mukherjee and J. Krasner, 68
- Inver, A. B. Mukherjee and J. Krasner, 68 Inevitability of patriarchy, s. GOLDBERG, *book review* by E. E. Maccoby, 469 Information processing in the visual sys-tems of arthropods, R. WEHNER (Ed.), *book review* by T. H. Goldsmith, 913 Ingersoll, A. P.: Jupiter's great red spot: a free atmospheric vortex? 1346
- a free atmospheric vortex?, 1346 Inou, T. See Amos, D. B., et al. Insect control (letter), E. C. Haines, 433
- Insect/plant relationships, H. F. VAN EM-DEN (Ed.), book review by D. H. Jan-zen, 1125
- Instrumental conditioning of large-magnitude, daily, 12-hour blood pressure elevations in the baboon, A. H. Harris *et al.*, 175 Insulin activity: the solid matrix, R. W.
- Butcher et al., 396
- Interferons and interferon inducers, N. B. FINTER (Ed.), book review by P. S. Morahan, 708
- Internal gravity wave-mean wind interaction, J. R. Holton and R. S. Lindzen, 85
- Io-accelerated electrons: predictions for Pioneer 10 and Pioneer 11, S. D. Shawhan et al., 1348
- Irrationalism (letters), A. S. Roberts, Jr.
- *et al.*, 651 Isard, W., and P. Kaniss (*Research News*): The 1973 Nobel prize for eco-nomic science, 568
- Island arcs, A. SUGIMURA and S. UYEDA,
- book review by J. E. Oliver, 1239 Ito, Y., and R. L. Bowman: Application of the elution centrifuge to separation polynucleotides with the use of of polymer phase systems, 391

J

- Jacobs, L.: NIH grants and contracts (letter), 113 Jacquet, Y. F., and A. Lajtha: Morphine
- action at central nervous system sites in rat: analgesia or hyperalgesia depending on site and dose, 490
- JAENICKE, R., and E. HELMREICH (Eds.), Protein-protein interactions, book re-
- view of, 1014 Janke, N. C., et al.: Journal evaluation (letters), 1196
- (letters), 1196 Janzen, D. H.: book review of Insect/ plant relationships, 1125; Tropical agro-ecosystems, 1212 Jarett, L. See Butcher, R. W., et al. Javit, M. See Kubinski, H. Javitt, N. B., et al.: Porphyrin-heme path-ways: regulation by intermediates in bile acid synthesis, 841 Jayaraman, A.: book review of Electronic transitions and the high pressure chem-istry and physics of solids, 707

- istry and physics of solids, 707 Jensen, E. V., and E. R. DeSombre: Estro-gen-receptor interaction, 126 Jepsen, A. See Stoiber, R. E. Johnson, A. B. See Goldfischer, S., et al.

- Johnson, C. A. See Lamont, A., et al. Johnson, L. R. See McEvilly, T. V. Johnson, T. V. See Carlson, R. W., et al. Johnston, E. J. See Staelin, D. H., et al. Jones, J. S.: Ecological genetics and nat-ural selection in molluscs, 546
- Journal evaluation (letters), N. C. Janke

- *et al.*, 1196 Joyce, G. See Shawhan, S. D., et al. Jupiter's great red spot: a free atmo-spheric vortex?, A. P. Ingersoll, 1346 Jupiter's radiation belts: can Pioneer 10 survive?, W. N. Hess et al., 1021

K

- Kado, R. T.: Aplysia giant cell: somaaxon voltage clamp current differences, 843
- Kahan, E., and B. M. Allison: Marital status and mobility (letter), 221 Kahn, C. R. See Butcher, R. W., et al.

- Kahn, C. R. See Butcher, R. W., et al. Kalbfleisch, J. H. See Stewart, R. D., et al. Kanamori, H. See Ellsworth, W. L., et al. Kandel, E. R. See Carew, T. J. See also Pinsker, H. M., et al. Kaniss, P. See Isard, W. Kao, S. K.: book review of Atmospheric experience 48

- Kaniss, P. See Isard, W.
 Kao, S. K.: book review of Atmospheric energetics, 48
 Kapikian, A. Z. See Feinstone, S. M., et al.
 Kaplan, H. See Curran, W. J., et al.
 Kappas, A. See Javitt, N. B., et al.
 Karam, J. H. See Gerich, J. E., et al.
 Karickhoff, S. W. See Bailey, G. W., et al.
 Kates, R. W., et al.: Human impact of the Managua earthquake, 981
 Katz, M., and V. ter Meulen: Slow viruses (letter), 649
 Kaula, W. M. See Bender, P. L., et al.
 Kay, R. F., and H. M. McHenry: Humerus of robust Australopithecus, 396
 Keenan, T. W., and D. J. Morré: Mammary carcinoma: enzymatic block in disialoganglioside biosynthesis, 935
 Kennel, C.: book review of Earth's magnetospheric processes, 816
 Kerkof, P. R.: Transplantation of cultured tissue (letter), 1084
 Kersey, J. H., et al.: Acute lymphoblastic leukemic cells with T (thymus-derived) lymphocyte markers, 1355

- lymphocyte markers, 1355
- Keweenawan volcanic sequence, N. K. Huber and H. R. Cornwall, 1373 Khandwala, A., and J. B. L. Gee: Linoleic acid hydroperoxide: impaired bacterial

uptake by alveolar macrophages, a mechanism of oxidant lung injury, 1364 Kienle, J. See Mauk, F. J.

Kinoshita, J. H. See Dvornik, D., et al. Kishida, Y. See Olsen, B. R., et al. KLEIN, R. G., Ice-age hunters of the Ukraine, book review of, 573 Klopfer, P. H.: book review of Mind,

KNEESE, A. V. See FREEMAN, A. M., III, et al. Knowledge factory (letter), D. Troyer,

Kohn, L. D. See Lichtenstein, J. R., et al. Kolata, G. B. (Research News): cyclic GMP as a cellular regulatory agent?,

149; repeated DNA sequences, 1009

KONDRATYEV, K. YA., Radiation processes in the atmosphere, *book review* of, 1015 Kopple, J. D. See Rabinowitz, M. B., et al.

Kottman, R. M. See Sears, P. B., et al.
KOZLOWSKI, T. T. See MARKS, G. C.
Krasne, F. B., and J. S. Bryan: Habituation: regulation through presynaptic inhibition, 590
Krasner, J. See Mukherjee, A. B.
Kruskal, W. See Pollock, S. M.
KRUTILLA, J. V. (Ed.), Natural environments, book review of, 1012
Kubinski, H., and M. Javid: Proteins from human cerebrospinal fluid: binding with

human cerebrospinal fluid: binding with

nucleic acids, 296 Kubo, A. S., and D. J. Rose: Disposal of nuclear wastes, 1205 Kunde, V. G. See Curran, R. J., et al.

Kottman, R. M. See Sears, P. B., et al.

1238

- Lack of glucagon response to hypogly-cemia in diabetes: evidence for an incemia in diabetes: evidence for an in-trinsic pancreatic alpha cell defect, J. E. Gerich et al., 171 Lajtha, A. See Jacquet, Y. F. Lamont, A., et al.: Dioptrics of the periph-ery of the eye, 86 Landis, D. J., et al.: Alteration of disc formation in photoreceptors of rat retina, 1144 Lange, D. E., and J. W. Larimer: Chon-drules: an origin by impacts between dust grains, 920

- dust grains, 920 Lange, I. M., and J. C. Avent: Ground-based thermal infrared surveys as an aid in predicting volcanic eruptions in the
- in predicting volcanic eruptions in the Cascade Range, 279 Langenberg, D. N. (*Research News*): The 1973 Nobel prize for physics, 701 Langlois, M. See Gerich, J. E., et al. Large scale structure of space-time, The, s. W. HAWKING and G. F. R. ELLIS, book review by B. DeWitt, 705 Larimer, J. W. See Lange, D. E. Larner, J. See Butcher, R. W., et al. Lasers and eve protection (letter), R. L.
- Lasers and eye protection (letter), R. L.

- Lasers and eye protection (letter), R. L. Elder, 1080 Laska, E. M. See Curran, W. J., et al. Laugenie, C. A. See Mercer, J. H. Lavender, D. P., et al.: Spring shoot growth in Douglas-fir may be initiated by gibberellins exported from the roots, 838
- Lead metabolism in the normal human: stable isotope studies, M. B. Rabino-witz et al., 725
- Lectures on photomorphogenesis, H. MOHR,
- book review by R. L. Satter, 153 Ledbetter, M. C. See Crotty, W. J. Lee, K. N.: book review of The economics of environmental policy, Economies and the environment, and Energy, ecol-

- and the environment, and Energy, ecol-ogy, economy, 911 Lee, O. See Hollinshead, A. C., et al. Lee-Hu, C. See Wetherill, G. W., et al. Lefkowitz, R. J. See Butcher, R. W., et al. Lehr, D., et al.: Renin-angiotensin role in thirst: paradoxical enhancement of drinking by angiotensin converting en-zyme inhibitor, 1031 Leibowitz, H. W. See Lamont, A., et al. Leigh, J. See Netzel, T. L., et al. Leighton, W. P. See Rosenblatt, S., et al. Lenhoff, H. M.: book review of Biology of hydra, 275

- Lennoir, H. M.: book review of Biology of hydra, 275
 Lennon, K. See Cruikshank, D. P., et al.
 Lenoir, W. B. See Staelin, D. H., et al.
 Lerner, R. M. See Reed, T. B.
 Lesniak, M. A. See Gorden, P., et al.
 Let the bastards freeze in the dark (editorial), P. H. Abelson, 657
 Letter to Pravda (letter), I. S. Bengelsdorf 334
- dorf. 334

- dorf, 334 Levi-Montalcini, R. See Seshan, K. R. Levine, R. See Butcher, R. W., et al. Levinson, D. See Roberts, A. S., Jr., et al. Levinton, J. See Wilkins, N. P. LEVISON, M., et al., The settlement of Polynesia, book review of, 1012 Levy, J. A.: Xenotropic viruses: murine leukemia viruses associated with NIH
- leukemia viruses associated with NIH Swiss, NZB, and other mouse strains, 1151

- 1151
 Lewis, M. See Matheny, A. P., Jr., et al.
 Lewis, R. M. See Borel, Y., et al.
 Lientmitte, R.: Meteorological Doppler radar, 258
 Li, M. P. See Oliver, J. T., et al.
 Licht, P. See Hayashida, T., et al.
 Lichtenstein, J. R., et al.: Defect in conversion of procollagen to collagen in a form of Ehlers-Danlos syndrome, 298
 Lieber, C. S. See Rubin, E.
 Lieber, M. M., et al.: Mammalian cells in culture frequently release type C
- in culture frequently release type C viruses, 56 LIEBERSTEIN, H. M., Mathematical physi-
- ology, book review of, 914 Life of marsupials, H. TYNDALE-BISCOE,

book review by R. M. F. S. Sadleir,

- Lijinsky, W.: Nitrites in food (letter), 1194
- Limulus rhodopsin: rapid return of transient intermediates to the thermally stable state, A. Fein and R. A. Cone, 495

- Lindzen, R. S. See Holton, J. R. Ling, C. M. See Vyas, G. N., et al. Linoleic acid hydroperoxide: im impaired bacterial uptake by alveolar macro-phages, a mechanism of oxidant lung injury, A. Khandwala and J. B. L. Gee, 1364
- Livingston, D. M. See Lieber, M. M., et al.
- Lodge, J. P., Jr. See Stout, G. E. Lomask, M.: Historical footnote (letter),
- 116 Lomnitz, C.: Geodynamics symposium in
- Mexico (*meeting report*), 607 LONG, P. L. See HAMMOND, D. M.
- Long-distance runners (letter), T. J. Bassler, 113
- Long-term sensitization of a defensive withdrawal reflex in *Aplysia*, H. M. Pinsker *et al.*, 1039 Love, L. O.: Electromagnetic separation

- of isotopes at Oak Ridge, 343 Low-temperature thermal decomposition of water, L. R. Morss *et al.*, 1372 Lown, B., *et al.*: Psychologic stress and threshold for repetitive ventricular response, 834 Lucchesi, J. C.: book review of The ge-
- netics of the spermatozoon, 817
- Lunar laser ranging experiment, The, P. L. Bender *et al.*, 229 Luria, S. E.: *book review* of The molecu-
- Luria, S. E.: book review of the molecu-lar biology of tumor viruses, 1338 Luteinizing hormone-releasing factor po-tentiates lordosis behavior in hypo-physectomized ovariectomized female rats, D. W. Pfaff, 1148 Luzzana, M. See Agostoni, A., et al.

Μ

- Maccoby, E. E.: book review of The inevitability of patriarchy, 469 Mack, S. M. (News and Comment): Coun-
- cil on Environmental quality chides agencies; Scientists' Institute for Public Information appeals for aid to Vietnam, 1109
- MacMillan, V. See Davis, J. N., et al.
- Maffei, L., *et al.*: Neural correlate of perceptual adaptation to gratings, 1036 Magid, A., *et al.*: Axonal transport— simple diffusion?, 180

- Major, J.: book review of Ectomycorrhi-zae, 1014 Malacoff, R. F. See Holmes, J. E., et al. Malin, M. C. See Murray, B. C. Malmstrom, V. H.: Mesoamerican calen-dar (letter), 1198 Mammelion cells in culture frequently.
- Mammalian cells in culture frequently release type C viruses, M. M. Lieber et al., 56
- Mammary carcinoma: enzymatic block in Mammary carcinoma: enzymatic block in disialoganglioside biosynthesis, T. W. Keenan and D. J. Morré, 935 Mandal, R. K.: Control of transcription (meeting report), 1165 Manheim, F. T.: A visit to Bulgaria (letter), 224 Mann, K. H.: Seaweeds: their productivity and strategy for growth, 975 Mapping human autosomes: assignment of the MN locus to a specific segment in

- the MN locus to a specific segment in the long arm of chromosome No. 2, J. German and R. S. K. Chaganti, 1261 Marcus, J. J. See Walker, R. Marinetti, G. V. See Butcher, R. W., et al.
- Marital status and mobility (*letter*), E. Kahan and B. M. Allison, 221 Mark, H.: The scientific climate in San Francisco (*AAAS*), 339

Mark, H. B., Jr., and S. Fujiwara: Computer assisted chemical research design

ix

- (meeting report), 606 Mark, R. See Wetherill, G. W., et al. Marketing the metric system (letter), M. Fowler, 535 MARKS, G. C., and T. T. KOZLOWSKI (Eds.),
- Ectomycorrhizae, book review of, 1014 Marler, P.: book review of The predatory behavior of wild chimpanzees, 572
- and D. R. Griffin News): The 1973 Nobel (Research prize for
- physiology or medicine, 464 Marolla, F. A. See Belmont, L. Mars: Mariner 9 spectroscopic evidence
- for H₂O ice clouds, R. J. Curran et al., 381
- Marshall, J. H.: book review of The effects
- of irradiation on the skeleton, 818 Martin, G. R. See Lichtenstein, J. R., et al. Martin, J. H. See Sears, P. B., et al. Maruniak, J. A. See Desjardins, C., et al. Marx, J. L. (Research News): bioethical and legal considerations of in vitro fer-tilization of human eggs, 812; embryos in the test tube, 811; immunology and neurobiology to the fore, 1329, 1331
- Massy, W. F. See Greenberger, M., et al. Maternal behavior in wolf spiders: the role
- of abdominal hairs, J. S. Rovner et al., 1153
- Mathematical physiology, H. M. LIEBER-STEIN, book review by E. O. Attinger, 914
- Matheny, A. P., Jr., et al.: Testing infant intelligence, 734
- MATHEWS, W. N., JR. See GREGORY, W. D., et al.
- MATHIAS, P. (Ed.), Science and society,
- 1600–1900, book review of, 47 Maugh, T. H., II (Research News): medium-sized computers for the laboratory, 270; polywater is buried, 1329;
- singlet oxygen, 44 Mauk, F. J., and J. Kienle: Microearth-quakes at St. Augustine Volcano, Alaska, triggered by earth tides, 386 Mayeda, T. K. See Clayton, R. N., et al. MC CAY, C. M., Notes on the history of nutrition research, book review of, 377 McClenny, W. A. See Hodgeson, J. A.,

MC CONNELL, D., Apatite, book review

MC CORMAC, B. M. (Ed.), Earth's mag-

MC CRORY, W. W., Developmental nephrol-

McCroskery, P. A., et al.: Gelatin: a poor substrate for a mammalian collagenase,

McDonald, N. G. See Cornet, B., et al. McEvilly, T. V., and L. R. Johnson: Earthquakes of strike-slip type in cen-

tral California: evidence on the question of dilatancy, 581
McGurk, H. See Matheny, A. P., Jr., et al.
McHenry, H. M. See Kay, R. F.
MC INTOSH, P. S., and M. DRYER (Eds.), Solar activity observations and predictions, book review of, 49
McJilton, C., et al.: Role of relative humidity in the synergistic effect of a sulfur dioxide-aerosol mixture on the lung, 503
McKennev, J. L. See Greenberger, M.

McKenney, J. L. See Greenberger, M.,

McKinney, W. T., Jr. See Akiskal, H. S. McKusick, V. A. See Lichtenstein, J. R.,

McKusick, V. A. See Lichtenstein, J. A., et al.
Mead, G. D. See Hess, W. N., et al.
Medical school policy (letters), J. E. Holmes, et al., 648
Meeting reports: Computer assisted chem-ical research design, 606; Control of transcription, 1165; Geodynamics sym-posium in Mexico, 607; Gordon Re-search Conferences, winter program, 1974, 505; Human histocompatibility an-

tral California: evidence on the ques-

ogy, book review of, 48

netospheric processes, book review of,

et al.

816

70

et al.

of, 816

tigens and susceptibility to disease, 183; Techniques in somatic cell genetics as they pertain to senescence of diploid cells, 1164

- Membrane continuities involving chloroplasts and other organelles in plant cells, W. J. Crotty and M. C. Ledbetter, 839
- Membrane fatty acids associated with the electrical response in visual excitation, R. M. Benolken et al., 1253 Menzel, E. W.: Chimpanzee spatial mem-
- ory organization, 943 Mercer, J. H., and C. A. Laugenie: Glacier
- in Chile ended a major readvance about 36,000 years ago: some global comparisons, 1017 Merola, L. O. See Dvornik, D., et al.
- Mesoamerican calendar (*letter*), V. H. Malmstrom, 1198 Meteorological Doppler radar, R. Lhermitte, 258
- Methanol: a versatile fuel for immediate use, T. B. Reed and R. M. Lerner, 1299
- Methylated forms of arsenic in the environment, R. S. Braman and C. C. Foreback, 1247
- Methyltetrahydrofolic acid mediates Nand O-methylation of biogenic amines,
- and O-methylation of biogenic amines,
 S. P. Banerjee and S. H. Snyder, 74
 Metz, W. D. (*Research News*): gamma ray bursts, 1234; interstellar molecules, 466, 467; Jupiter, 1235; physics and astronomy, 1329, 1333
 Michaelson, I. A. See Sauerhoff, M. M. Microearthquakes at St. Augustine Volcano, Alaska, triggered by earth tides, F. J. Mauk and J. Kienle, 386
 G. Microelobulin: association with lymph-
- β_2 -Microglobulin: association with lymph-
- ocyte receptors, M. L. Bach *et al.*, 1350 Micrometeorite craters discovered on chondrule-like objects from Kapoeta meteorite, D. E. Brownlee and R. S. Rajan, 1341
- Microwave spectrometer on the Nimbus 5 satellite: meteorological and geophysi-cal data, D. H. Staelin *et al.*, 1339 Milkman, R.: Electrophoretic variation in
- Escherichia coli from natural sources, 1024
- Miller, E. A., et al.: Delayed recovery of function following orbital prefrontal lesions in infant monkeys, 304
- Miller, J. (*News and Comment*): genetic erosion in crop plants, 1231; "The Seed" drug rehabilitation program, 40
- Miller, R. C. See Nichols, W. W., et al. Millikelvin temperatures measured with a noise thermometer, J. C. Wheatley and
- R. A. Webb, 241 Milliman, J. D.: *book review* of Shelf sediment transport, 1126 Millodot, M. See Lamont, A., *et al.*
- Mind, S. K. LANGER, book review by P. H.
- Klopfer, 1238 Minster, B. See Ellsworth, W. L. et al.
- MITRAKOS, K., and W. SHROPSHIRE, JR. (Eds.), Phytochrome, book review of, Ì53
- MITTLER, T. E. See SMITH, R. F., et al.
- Mohr, H., Lectures on photomorpho-genesis, *book review* of, 153 Molecular biology of tumor viruses, The, J. TOOZE (Ed.), *book review* by S. E. Luria, 1338
- Monocular spatial distortions induced by marked accommodation, K. Blank and
- J. M. Enoch, 393 Monroe, R. R. See Chodoff, P. Moore, C. B., and P. F. Zittel: State-selected kinetics from laser-excited selected kinetics from faser-excited fluorescence, 541 Moore, C. L. See Goldfischer, S., et al. Moos, H. W. See Fastie, W. G., et al. Morahan, P. S.: book review of Inter-ferons and interferon inducers, 708

- Morphine action at central nervous sys-tem sites in rat: analgesia or hyper-

algesia depending on site and dose, Y. F. Jacquet and A. Lajtha, 490 Morré, D. J. See Keenan, T. W.

- Morrison, D. See Cruikshank, D. P., et al. Morrison, R. H.: A reasonable deduction (*letter*), 10 Morss, L. R., *et al.*: Low-temperature
- thermal decomposition of water, 137
- Moss, G. E., Illness, immunity, and social interaction, *book review* of, 912
 Mukherjee, A. B., and J. Krasner: Induc-tion of an enzyme in genetically deficient rats after grafting of normal liver, 68
- Mulholland, J. D. See Bender, P. L., et al. Müller, R. See Wunderlich, F., et al. Murine leukemia: a virus-induced auto-immune disease?, M. R. Profitt et al., 821
- Murphy, C. B., Jr.: Effect of restricted use of phosphate-based detergents on Onondaga Lake, 379
- Murray, B. C., and M. C. Malin: Polar volatiles on Mars-theory versus ob-
- servation, 437 MURRAY, J. w., Distribution and ecology of living benthic foraminiferids, *book* review of, 154
- Muscle carnitine palmityltransferase deficiency and myoglobinuria, S. DiMauro and P. M. M. DiMauro, 929 Mutations in immunoglobulin-producing
- mouse myeloma cells, R. Baumal et al., 164

Ν

- Naeser, C. W. See Turner, D. L., et al. NAPIER, J., Bigfoot, book review of, 376 Nathan, M. A. See Reis, D. J., et al. Natural environments, J. V. KRUTILLA (Ed.), book review by P. H. Pearse, 1012 1012
- Naumann, R. J.: Smoking and air pollution standards (*letter*), 334
 Nelson, P. G. See Giller, E. L., Jr., et al.
- Nerve growth factor: relationship to the cyclic AMP system of sensory ganglia, D. B. Hier *et al.*, 79
- Nesbit, M. E. See Kersey, J. H., et al. Netzel, T. L., et al.: Picosecond kinetics
- of reaction centers containing bacteriochlorophyll, 238
- Neural correlate of perceptual adaptation to gratings, L. Maffei *et al.*, 1036 Neuromuscular junction in myasthenia
- gravis: decreased acetylcholine recep-tors, D. M. Fambrough *et al.*, 293
- Neuron geometry and circuitry via the electron microscope: intracellular stain-ing with osmiophilic polymer, Rhanor Gillette and B. Pomeranz, 1256
- Neuronal properties of nymphal and adult insect neurosecretory cells in vitro, K. R. Seshan and R. Levi-Montalcini, 291

Neurons of the hypothalamus concentrate

[^aH]progesterone or its metabolites, M. Sar and W. E. Stumpf, 1266 Nevo, E. See Capranica, R. R., et al.

- New international program, A (editorial), P. H. Abelson, 119
- ws and Comment: Abelson awarded Kalinga prize, 41; agriculture, a forgot-ten industry, 1321; Arab-Israeli war and military R & D, 559; Addiction Re-search Center, 1229; Army chemical stockpile destruction, 809; astronomy in Britain, 900 (erratum, 1008); auto catalysts, 368, 809; Bevan to leave AAAS, 1233; biomedical support in 1973, 1325; blood banks pressured to unite. 146: breeder reactors and News and Comment: Abelson awarded catalysis, AAAS, 1233; biomeurcu. 1973, 1325; blood banks pressured to unite, 146; breeder reactors and the cost, 38; budget consolidation "institutes at the Naproposed for all institutes at the Na-tional Institutes of Health, 460; Center for Atmospheric Research, 36; charg-ing research patients at NIH, 802; coal in western United States, 456; Coleman as a blue-chip adviser, 142; Congress

and Soviet détente, 148; Council on Environmental Quality chides agencies, 698; court decides the right to photocopy, 1228; court order opens study sections, 1328; Daddario gets post at Office of Technology Assessment, 907; Dominick leaves Environmental Protection Agency, 148; Electric Power Re-search Institute, 263; energy and the muddle at the top, 1319; energy crisis, 807; Energy R & D Advisory Council, 898; environment and the energy crisis, 1325; environmental impact statements, 462; Environmental Policy Center as an environmental lobby, 905; Europe an environmental lobby, 905; Europe joins space shuttle project, 264; Federal Energy Office, 1225; genetic erosion in crop plants, 1231; higher education study, 697; International Congress on Drug Education, 1114; land use law, 691 (*erratum*, 908), 902; Law of the Sea Conference opens, 1111; mapping for the government, 1226; medical devices and public protection, 565: microbiol and public protection, 565; microbiol-ogy and its hazards, 566; Naderism blooms in Sweden, 145; narcotics hospital in Lexington, Kentucky, 1004; National Academies together again, 1328; National Center for Atmospheric Research has new leadership, 808; Na-tional Institute of Education's budget cut, 804; National Institute of Mental Health put in new agency, 461; National Medal of Science winners, 366; notes on 1973, 1328; nuclear safeguards, 1112; Office of Technology Assessment gets \$2 million, 560; offshore oil, 564; Peterson named chairman of Council on Environmental Quality, 370; protection sought for professional workers, 1002; Research Ap-plied to National Needs (RANN) holds a symposium, 1006; sacking of top black woman at National Aeronautics and Space Administration, 804; R&D and science policy, 1326; Sakharov and US–Soviet détente, 370; Shakharov wants to leave the U.S.S.R., 1116; science politics, 365; science still in public favor, 369; scientists and engineers unemployed, 1228; scientists and the public interest, 367; Scientists' Institute for Public Information appeals for aid to Vietnam, 1109; "The Seed" drug rehabilitation program, 40; Sloan-Ketter-ing Cancer Center, 1000; sorghum and protein shortage, 147; Soviets reply to National Academy of Sciences on Sakharov issue, 459; space shuttle and European payload, 562; telecommuni-cations research 267; Tennessee and evolution, 696; timber study reinforces Nixon policy, 144; training grants, 265, 563; urban land use in Yonkers, 692; Virus Cancer Program, 110; workers, region Virus Cancer Program, 1110; water proj-ects and their "pork barrel" image, 266; Watergate and verification of tapes, 1108; youth and President's Science Ad-

Nibel States and States

Nitrites in foods (letter), W. Lijinsky, 1194

- Nixon, A. C.: Automotive emissions (letter), 967 Noacco, C. See Gerich, J. E., et al. Nobel prize for chemistry, The 1973 (*Re-search News*), D. Seyferth and A. Davison 609 Davison, 699
- Nobel prize for economic science, The 1973 (Research News), W. Izard and

P. Kaniss, 568 Nobel prize for physics, The 1973 (*Research News*), D. N. Langenberg, 701 Nobel prize for physiology or medicine,

- Ann D. K. Griffin, 404 Nonspecificity of hepatitis B antigen de-tected with iodine-125-labeled antibody, G. N. Vyas et al., 1368 Norborg, J. See Wallace, R. F., et al. Norton, W. T. See Goldfischer, S., et al. Notes on the history of putrition research
- Notes on the history of nutrition research, c. M. MC CAY, book review by F. C. Bing, 377 Nuclear magnetic resonance in ferro- and
- antiferromagnets, E. A. TUROV and M. P. PETROV, book review by J. I. Budnick, 915
- Nuclear waste disposal at Hanford (letter),
- H. M. Parker, 433 Nunes, P. D., and M. Tatsumoto: Excess lead in "rusty rock" 66095 and impli-cations for an early lunar differentia-
- tion, 916 Nutrition factor, The, A. BERG, book re-view by C. E. Taylor, 155

O and P

- Objective personality assessment, J. N. BUTCHER (Ed.), book review by M. B. Parloff, 574 O'Brien, R. D.: Pesticide regulation (*letter*), 222
- Ocean current monitoring employing a new satellite sensing technique, A. E. Strong and R. J. DeRycke, 482
- Oceanic growth models, R. H. Becker et al., 601 Ogden, J. C., et al.: Grazing by the echinoid Diadema antillarum Philippi: formation of halos around West Indian

- Ormation of naios around west Indian patch reefs, 715 Oka, I. N. See Pimentel, D., et al. O'Leary, B. See Carlson, R. W., et al. Oliphant, M. L.: Scientists as economists (letter), 871 Oliver, J. E.: book review of Island arcs, 1230
- 1239
- 1239 Oliver, J. T., et al.: Hypertensive action of 18-hydroxydeoxycorticosterone, 1249 Olsen, B. R., et al.: Collagen synthesis: localization of prolyl hydroxylase in tendon cells detected with ferritin-labeled antibodies, 825 Olsen, J. L., Jr.: Copyright laws (letter), 775 Olson B. Sae Kates B. W. et al.

- Olson, R. See Kates, R. W., et al. Olson, R. A. See Kates, R. W., et al. Ontogeny and peripheralization of thymic lymphocytes, J. B. Turpen et al., 931 Opiate agonists and antagonists discrim-
- inated by receptor binding in brain, C. B. Pert *et al.*, 1359 Organic compounds in meteorites, E. An-ders *et al.*, 781 Origin of mitochondria, C. de Duve, 85
- Ornstein, S. M. See Cheatham, T. E., Jr., et al.
- Osborne, S. See Wallace, R. F., et al.
- Oscillation of cyclic adenosine monophos-phate concentration during the myo-cardial contraction cycle, G. Brooker, 933
- 933
 Othmer, D. F., and O. A. Roels: Power, fresh water, and food from cold, deep sea water, 121
 Overby, L. R. See Vyas, G. N., et al.
 Overeating and obesity from damage to a noradrenergic system in the brain, J. E. Ahlskog and B. G. Hoebel, 166
 Oxygen affinity and electrolyte distribution of human blood: changes induced

- Oxygen aminity and electrolyte distribution of human blood: changes induced by propranolol, A. Agostoni et al., 300
 Page, R. A. See Ellsworth, W. L., et al.
 Paine, R. T. See Zaret, T. M.
 Pannbacker, R. G.: Control of guanylate cyclase activity in the rod outer segment, 1138
- Pantuwatana, S. See Watts, D. M., et al.
- Pappenheimer, A. M., Jr., and D. M. Gill: Diphtheria, 353

- Paque, R. See Holmes, J. E., et al.
- Parameters of technological growth, C. Starr and R. Rudman, 358 Parapsychology (letters), C. T. Tart and
- T. Healey, 222 PARKER, B. C. (Ed.), Proceedings of the
- PARKER, B. C. (Ed.), Proceedings of the colloquium on conservation problems in Antarctica, book review of, 817
 Parker, C. W. See Shearer, W. T., et al.
 Parker, H. M.: Nuclear waste disposal at Hanford (letter), 433
 Parloff, M. B.: book review of Objective percendity, Secondary 574

- personality assessment, 574 Pasternak, G. See Pert, C. B., et al. Paul, C. See Putnam, F. W., et al. Pearl, J. C. See Curran, R. J., et al.
- Pearse, P. H.: book review of Natural environments, 1012
- Pentobarbital: selective depression of ex-
- Pentobarbital: selective depression of excitatory postsynaptic potentials, J. L.
 Barker and H. Gainer, 720
 PÉREZ-MIRAVETE, A. (Ed.), Behaviour of micro-organisms, book review of, 914
 Periodicity of susceptibility to pneumococcal infection: influence of light and constructions. B. G. Shackela, and an analysis and an analysis and an analysis. adrenocortical secretions, P. G. Shackel-ford and R. D. Feigin, 285 Perkins, H. A. See Vyas, G. N., et al. Perlis, A. J. See Cheatham, T. E., Jr.,
- et al.
- Perlman, I. See Heizer, R. F., et al. Peroxisomal and mitochondrial defects in
- the cerebro-hepato-renal syndrome, S. Goldfischer et al., 62
- Perry, E. C., Jr. See Becker, R. H., et al. Persecution of Soviet scientists (letter),
- A. A. Zwarun, 535 Pert, C. B., *et al.*: Opiate agonists and antagonists discriminated by receptor
- binding in brain, 1359 Pertel, R.: book review of Behavioural aspects of parasite transmission, 1124 Pesticide regulation (*letter*), R. D. O'Brien,
- 222
- PETROV, M. P. See TUROV, E. A. Pettigrew, J. D., and J. D. Daniels: Gamma-aminobutyric acid antagonism in visual cortex: different effects on simple, complex, and hypercomplex neurons, 81
- Pettigrew, J. D., and R. D. Freeman: Pettigrew, J. D., and K. D. Freeman: Visual experience without lines: effect on developing cortical neurons, 599
 Pettigrew, K. D. See Allen, G., et al.
 Pfaff, D. W.: Luteinizing hormone-re-leasing factor potentiates lordosis be-havior in hypophysectomized and in the sector.
- havior in hypophysectomized ovariec-tomized female rats, 1148
- tomized female rats, 1148 Phase transitions and critical phenomena, c. DOMB and M. S. GREEN (Eds.), book review by M. E. Fisher, 576 Phillips, D. I.: Challenges for science education (AAAS), 1048 Phillips, O. M.: book review of Turbu-lent diffusion in the environment, 707 Philnott G. W. See Shearer W. T. et al.

- Philpott, G. W. See Shearer, W. T., et al. Phonotaxis of crickets in flight: attraction of male and female crickets to male calling songs, S. M. Ulagaraj and T. J.
- Walter, 1278 Phosphate-induced protein chromatography, R. A. Rimerman and G. W. Hat-field, 1268
- Phosphorylation of muscle membranes: identification of a membrane-bound pro
- tein kinase, C. G. Andrew et al., 927 Phytochrome, K. MITRAKOS and W. SHROP-SHIRE, JR. (Eds.), book review by R. L. Satter, 153
- Satter, 153 Pichichero, M., et al.: Effects of dibutyryl cyclic AMP on restoration of function of damaged sciatic nerve in rats, 724 Picosecond kinetics of reaction centers containing bacteriochlorophyll, T. L. Netzel, et al., 238 Picton, T. W. See Hillyard, S. A., et al. PiLKEY, O. H. See SWIFT, D. J. P., et al. Pimentel, D., et al.: Food production and the energy crisis. 443

- the energy crisis, 443

Pinsker, H. M., et al.: Long-term sensitization of a defensive withdrawal reflex in Aplysia, 1039
Plant mycoplasmas: serological relation

xi

- between agents associated with citrus stubborn and corn stunt diseases, J. G.
- Tully et al., 827 Platte, L. R. See Stewart, R. D., et al. Plotkin, H. H. See Bender, P. L., et al.
- Point Mugu, California, earthquake of 21 February 1973 and its aftershocks, W. L. Ellsworth *et al.*, 1127
- Polar volatiles on Mars-theory versus observation, B. C. Murray and M. C.
- Malin, 437 Politicians, bureaucrats, and the consultant, G. D. BREWER, book review by A.
- Wildavsky, 1335
 Pollock, S. M., and W. Kruskal: Quality of statistics (letters), 113
 Polymorphism in *Plastosciara perniciosa*, NYA 60057711
- W. A. Steffan, 1265 Polyol accumulation in galactosemic and diabetic rats: control by an aldose re-ductase inhibitor, D. Dvornik et al., 1146
- Pomeranz, B. See Gillette, Rhanor Population growth, B. SPOONER (Ed.), book review by C. Renfrew, 46 Porphyrin-heme pathway: regulation by
- intermediates in bile acid synthesis, N. B. Javitt *et al.*, 841 Posner, S.: Programs of special interest
- to women and minorities (AAAS), 1162
- Potter, M., et al.: Rapid viral induction
- of plasmacytomas in pristane-primed BALB/c mice, 592 Poulik, M. D. See Bach, M. L., et al. Poulik, M. D., et al.: Aggregation of HL-A antigens at the lymphocyte sur-face induced by articement to a mice face induced by antiserum to β_2 -micro-
- globulin, 1352 Poultney, S. K. See Bender, P. L., et al.
- al.
 Power, fresh water, and food from cold, deep sea water, D. F. Othmer and O. A. Roels, 121
 Predatory attack, grooming, and consummatory behaviors evoked by electrical stimulation of cat cerebellar nuclei, D. J. Reis et al., 845
 Predatory behavior of wild chimpanzees
- Predatory behavior of wild chimpanzees, The, G. TELEKI, book review by P. Mar-
- ler, 572 Premonitory variations in S-wave velocity
- anisotropy before earthquakes in Ne-vada, I. N. Gupta, 1129 Prevention of cancer (*editorial*), P. H. Abelson, 973 Prevention of murine lupus nephritis by
- carrier-dependent induction of immunologic tolerance to denatured DNA, Y. Borel *et al.*, 76 Prinn, R. G.: Venus: composition and structure of the visible clouds, 1132 Probit transformation: improved method

Probit transformation: improved method for defining synchrony of cell cultures,
W. G. Hagar and T. R. Punnett, 1028
Proceedings of the colloquium on con-servation problems in Antarctica, B. C.
PARKER (Ed.), book review by E. D.
Rudolph, 817
Proceen brown: an intracellular due for

Frocion brown: an intracellular dye for light and electron microscopy, B. N. Christensen, 1255
Prockop, D. J. See Olsen, B. R., et al.
Procter, R. L. See Auster, S. L., et al.
Profitt, M. R., et al.: Murine leukemia: a virus-induced autoimmune disease?, 821

Programs of special interest to women and minorities (AAAS), S. Posner, 1162 Prota, G. See Bagnara, J. T., et al. Protection of privacy and confidentiality, W. J. Curran *et al.*, 797 Protein-protein interactions, R. JAENICKE

and E. HELMREICH (Eds.), book review by M. L. Hackert, 1014

Proteins from human cerebrospinal fluid:

binding with nucleic acids, H. Kubin-

xii

- ski and M. Javid, 296 Provine, W. B.: Geneticists and the biology of race crossing, 790 Prunieras, M.: Transplantation of tissues
- (*letter*), 433
- PRUSINER, S., and E. R. STADTMAN (Eds.), The enzymes of glutamine metabolism, book review of, 1015
- Psychologic stress and threshold for repetitive ventricular response, B. Lown et al., 834
- Punnett, T. R. See Hagar, W. G. Purcell, R. H. See Feinstone, S. M., et al. Puretz, D. H., et al.: Exercise and heart disease (letters), 1082
- Putnam, F. W., et al.: Complete amino acid sequence of the Mu heavy chain of a human IgM immunoglobulin, 287
- Pyrimidine starvation induced by adenosine in fibroblasts and lymphoid cells: role of adenosine deaminase, H. Green and T. Chan, 836

Q and R

- Quality of statistics (*letters*), S. M. Pol-lock and W. Kruskal, 113 Quantum low-temperature limit of a chemical reaction rate, V. I. Goldanskii
- et al., 1344 Quick, A. J.: Hemostasis and blood coag-ulation, 87 Quiet sun, The, E. G. GIBSON, book review by D. E. Billings, 706
- Rabbit blood lymphocytes may be T cells with surface immunoglobulins, S. Sell and H. W. Sheppard, Jr., 586 Rabinowitz, M. B., *et al.*: Lead metabo-lism in the normal human: stable

- Radiation belts of Jupiter, K. G. Stans-berry and R. S. White, 1020 Radiation processes in the atmosphere, K. YA. KONDRATYEV, book review by J. Gille, 1015
- Radiometric ages of Kodiak Seamount and Giacomini Guyot, Gulf of Alaska: implications for circum-Pacific tectonics, D. L. Turner et al., 579
- Rajan, R. S. See Brownlee, D. E
- Ralph, T. See Balagura, S., et al.
- Raman spectroscopic evidence for two conformations of uncomplexed. valin-omycin in the solid state, K. J. Roths-
- child et al., 384 Ramos, R. See Kates, R. W., et al. Rapid viral induction of plasmacytomas in Pristane-primed BALB/c mice, M. Potter et al. 502
- n rristane-primed BALB/c mice, M. Potter et al., 592 Rapin, I. See Goldfischer, S., et al. RASOOL, S. I. (Ed.), Chemistry of the lower atmosphere, book review of, 575 Rawls, W. E. See Hollinshead, A. C., et al
- al Reading and sentence completion by a chimpanzee (Pan), D. M. Rumbaugh et al., 731
- Reasonable deduction, A (*letter*), R. H. Morrison, 10 Recovery of feeding and drinking by rats
- after intraventricular 6-hydroxydopa-mine or lateral hypothalamic lesions, M. J. Zigmond and E. M. Stricker, 717

- M. J. Zigmond and E. M. Stricker, 717 REDGATE, E. S. See BRODISH, Z. Reed, C. A. See Bökönyi, S., et al. Reed, T. B., and R. M. Lerner: Methanol: a versatile fuel for immediate use, 1299 Regulation of human experimentation (editorial), A. Etzioni, 1203 Rehm, A., and H. J. Humm: Sphaeroma terebrans: a threat to the mangroves of
- terebrans: a threat to the mangroves of southwestern Florida, 173
- Reis, D. J., et al.: Predatory attack, grooming, and consumatory behaviors evoked by electrical stimulation of cat cerebellar nuclei, 845 Relative operating characteristic in psy-chology, The, J. A. Swets, 990

- Renfrew, C.: book review of Population growth, 46
- Renin-angiotensin role in thirst: paradoxical enhancement of drinking by angiotensin converting enzyme inhibitor, D.
- Lehr et al., 1031 Rentzepis, P. M. See Netzel, T. L., et al. Research News: big accelerators and a progress report, 1117; bioethical and legal considerations of in vitro fertilization of human eggs, 812; breeder program, 1236; Copernican quincen-tenary, 1329, 1330; cyclic GMP as a cellular regulatory agent?, 149; embryos in the test tube, 811; European high energy physics, 372; gamma ray bursts, 1234; geophysics being renewed in Europe, 702; geothermal energy, 43; glassy metals, 908; immunology and neurobiology to the fore, 1329, 1331; interstellar molecules, 466, 467; Jupiter, 1235; medium-sized computers for the laboratory, 270; neutral currents, 372; Nobel prize for chemistry, 699; Nobel prize for economic science, 568; Nobel prize for physics, 701; Nobel prize for prize for physics, 701; Nobel prize for physiology or medicine, 464; optical communications, 151; physics and astronomy, 1329, 1333; polywater is buried and hepatitis viruses surface, 1329, 1332; repeated DNA sequences, 1009, science and technology symposium, 570; einglet ovgrap 44; superconduc-570; singlet oxygen, 44; superconduc-tivity heats up, 1329, 1334 Resolution on the Panama Canal (*letter*),
- V. G. Springer, 336 Retinal acetate: effect on cellular content
- of RNA in epidermis in cell culture in chemically defined medium, M. B. Sporn *et al.*, 722
- Retinal projections in blind snakes, M.
- Halpern, 390 Rey, A. B.: Health records (*letter*), 536 Ridker, R. G.: To grow or not to grow:

- that's not the relevant question, 1315
 Rifkind, A. See Javitt, N. B., et al.
 Rim, A. A. See Stewart, R. D., et al.
 Rimerman, R. A., and G. W. Hatfield: Phosphate-induced protein chromatog-

- Rich, R. H. See Goldfischer, S., et al. Roberts, A. S., Jr., et al.: Irrationalism (letters), 651 Robinson, A. G. See Zimmerman, E. A., at al. et al.
- Robinson, A. L. (Research News): glassy metals, 908; optical communications, 151; science and technology symposium, 570; superconductivity heats up, 1329, 1334; telecommunications research, 267
- Rodbell, M. See Butcher, R. W., et al.
 Roels, O. A. See Othmer, D. F.
 Role of relative humidity in the synergistic effect of a sulfur dioxide-aerosol mixture on the lung, C. McJilton et al., 502 503
- Rose, D. J. See Kubo, A. S. Rosenblatt, S., et al.: Dopamine- β -hy-droxylase: evidence for increased ac-tivity in sympathetic neurons during psychotic states, 923 Rosenkranz, P. W. See Staelin, D. H.,
- et al.
- Roses, A. D. See Andrew, C. G., et al. Rossi-Bernardi, L. See Agostoni, A., et al.
- al.
 Rosvold, H. E. See Miller, E. A., et al.
 Roth, J. See Butcher, R. W., et al. See also Gorden, P., et al.
 Rothschild, K. J., et al.: Raman spectroscopic evidence for two conformations of uncomplexed valinomycin in the solid etate 384
- solid state, 384 Rovner, J. S., *et al.*: Maternal behavior in wolf spiders: the role of abdominal
- hairs, 1153 Rowe, W. P. See Potter, M., et al. Rowlands, D. T., Jr. See Amos, D. B.,
- et al.
- Rubin, E., and C. S. Lieber: Experimental

alcoholic hepatitis: a new primate

- model, 712 Rudman, R. See Starr, C. Rudolph, E. D.: book review of Proceed-ings of the colloquium on conservation
- problems in Antarctica, 817 Rumbaugh, D. M., *et al.*: Reading and sentence completion by a chimpanzee (*Pan*), 731

S

- Sabad, A. See Kersey, J. H., et al. Sackler, A. M. See Alexander, N. J. Sadleir, R. M. F. S.: book review of Life of marsupials, 572
- Safety of cosmetics (letter), M. Berdick, 1080
- Sagan, L. A., et al.: Allocation of natural resources (letters), 1296
- Sage, M.: book review of Brain-pituitaryadrenal interrelationships, 575
- Saglio, P. See Tully, J. G., et al. See also Whitcomb, R. F., et al. Salesky, N. See Ogden, J. C., et al. Samuels, L. T.: book review of Steroids
- in nonmammalian vertebrates, 915 SANGER, S. K., Mind, *book review* of, 1238 Sar, M., and W. E. Stumpf: Neurons of the hypothalamus concentrate [³H]pro-
- gesterone or its metabolites, 1266
- Satter, R. L.: book review of Lectures on photomorphogenesis and Phytochrome, 153
- Satyamurti, S. See Fambrough, D. M., et al.
- Sauerhoff, M. W., and I. A. Michaelson: Hyperactivity and brain catecholamines in lead-exposed developing rats, 1022
- Saunders, R. E. See Shively, J. M., et al.

- Saunders, R. E. See Shively, J. M., et al.
 Scarr-Salapatek, S. See Allen, G., et al.
 Scharff, M. D. See Baumal, R., et al.
 Schmatolla, E. See Magid, A., et al.
 Schmitt, H. H.: Apollo 17 report on the Valley of Taurus-Littrow, 681
 Schreiner, F. See Morss, L. R., et al.
 Schroeder, R. A., and J. L. Bada: Glacial-postglacial temperature difference deduced from aspartic, acid racemization duced from aspartic acid racemization
- in fossil bones, 479 Schwent, V. L. See Hillyard, S. A., et al. Science and society (letter), J. P. Segrest, 336
- Science and society, 1600-1900, p. MATHIAS
- (Ed.), book review by R. Hahn, 47 Science and technology of superconduc-tivity, The, w. D. GREGORY et al. (Eds.), book review by D. M. Ginsberg, 50
- Science, San Francisco, and health care (AAAS), P. Ward, 1280 Scientific climate in San Francisco, The (AAAS), H. Mark, 399
- Scientists as economists (letter), M. L. Oliphant, 871
- Screwworm control (*letters*), J. Calman and R. H. Smith, 775 Scribner, S., and M. Cole: Cognitive con-
- sequences of formal and informal education, 553
- Search for far-ultraviolet emissions from the lunar atmosphere, A, W. G. Fastie
- the lunar atmosphere, A, W. G. Fastie et al., 710 Sears, P. B., et al.: Agricultural research policies (letters), 10 Seaweeds: their productivity and strategy for growth, K. H. Mann, 975 Seeman, W. See Bohannan, P., et al. Segrest, J. P.: Science and society (letter), 336

- 336 Sell, S., and H. W. Sheppard, Jr.: Rabbit
- blood lymphocytes may be T cells with surface immunoglobulins, 586 Serrano, A. See Anton, A. H., et al. Seshan, K. R., and R. Levi-Montalcini:

Neuronal properties of nymphal and adult insect neurosecretory cells in vitro, 291 Sestanj, K. See Dvornik, D., et al.

Settlement of Polynesia, The, M. LEVISON

- settlement of Polynesia, Ine, M. LEVISON et al., book review by J. Terrell, 1012
 Seyferth, D., and A. Davison (Research News): The 1973 Nobel prize for chemistry, 699
 Shackelford, P. G., and R. D. Feigin: Periodicity of susceptibility to pneumo-coccel infortion, influence of light and

- Periodicity of susceptibility to pneumo-coccal infection: influence of light and adrenocortical secretions, 285 Shainberg, A. See Giller, E. L., Jr., et al. Shapiro, J. See Goldman, J. C. Shapley, D. (News and Comment): Army chemical stockpile destruction, 809; auto catalysts, 368, 809; Law of the Sea conference opens, 1111; mapping for the government, 1226; Naderism blooms in Sweden, 145; Office of Tech-nology Assessment gets \$2 million. nology Assessment gets \$2 million, 560; Sakharov wants to leave the U.S.S.R., 1116; sorghum and protein
- shortage, 147 Shawhan, S. D., Shawhan, S. D., et al.: Io-accelerated electrons: predictions for Pioneer 10 and Pioneer 11, 1348
 Shearer, W. T., et al.: Stimulation of cells by antibody, 1357
 Shechter, I. See Goldberg, I., et al.
 Shelf sediment transport, D. J. P. SWIFT et al. (Eds.), book review by J. D. Millimon 1126 et al.: Io-accelerated

- et al. (Eds.), book review by J. D. Milliman, 1126 Shepard, T. H. See Hauschka, S. D. Sheppard, H. W., Jr. See Sell, S. Shimizu, A. See Putnam, F. W., et al. Shinoda, T. See Putnam, F. W., et al. Shively, J. M., et al.: Functional organ-elles in prokaryotes: polyhedral inclu-sions (carboxysomes) of Thiobacillus neapolitanus, 584 Sholes, O. D. See Pimentel, D., et al.

- SHROPSHIRE, W., JR. See MITRAKOS, K. Siesjö, B. K. See Davis, J. N., et al. Silverberg, E. C. See Bender, P. L., et al. Simard-Duquesne, N. See Dvornik, D., et al.
- Simmons, G., et al.: The 25-km discontinuity: implications for lunar history, 158
- Simon, H. A. See Cheatham, T. E., Jr., et al.
- Simpson, D. R.: book review of Apatite, 816
- Sims, J. D.: Earthquake-induced strucsinis, J. D.: Earliquate-induced structures in sediments of Van Norman Lake, San Fernando, California, 161
 Sino-American Soybean Research Institute, A (editorial), L. R. Brown, 227
 Sklar, M. D. See Potter, M., et al.
 Slow viruses (letter), M. Katz and V. ter Meulen, 649
 Small even artistican in health even de

- Small area variations in health care de-livery, J. Wennberg and A. Gittelsohn, 1102
- Smith, B. A. See Carlson, R. W., et al.

- Smith, B. A. See Carlson, R. W., et al.
 SMITH, C. N. See SMITH, R. F., et al.
 SMITH, R. F., et al. (Eds.), History of entomology, book review of, 1013
 Smith, R. H. See Carlson, R. W., et al.
 Smoking and air pollution standards (letter), R. J. Naumann, 334
 Snyder, S. H. See Banerjee, S. P. See also Pert, C. B., et al.
 Sobel, A. See Thierry, A M., et al.
 Social rank in house mice: differentiation revealed by ultraviolet visualization of urinary marking patterns, C. Desjardins urinary marking patterns, C. Desjardins et al., 939
- Sokolich, W. G. See Zwislocki, J. J. Solar activity observations and predic-tions, P. S. MC INTOSH and M. DRYER (Eds.), book review by J. M. Wilcox, 49
- Species introduction in a tropical lake, T. M. Zaret and R. T. Paine, 449 Speth, V. See Wunderlich, F., et al.
- Sphaeroma terebrans: a threat to the mangroves of southwestern Florida, A. Rehm and H. J. Humm, 173 Spherical chicken, A (letter), S. D. Stell-
- man, 1296

- Spiro, A. J. See Goldfischer, S., et al. Spiroplasmas and acholeplasmas: multipli-cation in insects, R. F. Whitcomb *et al.*, 1251
- SPOONER, B. (Ed.), Population growth, book review of, 46 Sporn, M. B., et al.: Retinyl acetate: effect on cellular content of RNA in epider-mis in cell culture in chemically defined medium 722 medium, 722
- Spring shoot growth in Douglas-fir may be
- initiated by gibberellins exported from the roots, D. P. Lavender *et al.*, 838 Springer, V. G.: Resolution on the Panama Canal (*letter*), 336
- Stability of catecholamines and propranolol covalently bound to Sepharose and glass beads, M. S. Yong, 157
- STADTMAN, E. R. See PRUSINER, S. Staelin, D. H., et al.: Microwave spec-trometer on the Nimbus 5 satellite: meteorological and geophysical data, 1339
- Stambrook, P. J.: book review of The cell cycle in development and differentiation, 274
- Stanley, H. E. See Rothschild, K. J., et al. Stansberry, K. G., and R. S. White: Radia-tion belts of Jupiter, 1020
- Starr, C., and R. Rudman: Parameters of
- technological growth, 358 State of equilibrium of the west Antarctic
- inland ice sheet, I. M. Whillans, 476 State-selected kinetics from laser-excited fluorescence, C. B. Moore and P. F.
- Zittel, 541 Steffan, W. A.: Polymorphism in Plasto-

- Steffan, W. A.: Polymorphism in Plastosciara perniciosa, 1265
 STEHLI, F. G. See DONATH, F. A., et al.
 Stellman, S. D.: A spherical chicken (letter), 1296
 Stern, S. E. See Allen, G., et al.
 Sternglanz, H., and C. E. Bugg: Conformation of N⁸-methyladenine, a base involution of N.A. medifaction, restriction. volved in DNA modification: restriction processes, 833
- Steroids in nonmammalian vertebrates, D. R. IDLER (Ed.), book review by L. T. Samuels, 915
- Stewart, E. B. See Stewart, R. D., et al.
 Stewart, O. C.: book review of Flesh of the gods, 47
 Stewart, R. D., et al.: Carboxyhemoglobin concentrations in blood from donors in concentrations in blood from donors in concentrations.
- Chicago, Milwaukee, New York, and
- Los Angeles, 1362 Stimulation of cells by antibody, W. T. Shearer *et al.*, 1357 Stimulus change contemporaneous with
- food presentation maintains responding in the presence of free food, R. F. Wallace et al., 1038 Stinus, L. See Thierry, A. M., et al. Stoiber, R. E., and A. Jepsen: Sulfur
- dioxide contributions to the atmosphere by volcanoes, 577
- Stollar, B. D. See Borel, Y., et al. Stout, G. E., and J. P. Lodge, Jr.: Atmo-spheric research (letters), 1294

- spheric research (letters), 1294 Straus, R.: Departments and disciplines: stasis and change, 895 Strauss, J. S. See Carpenter, W. T., et al. Stricker, E. M. See Zigmond, M. J. Strong, A. E., and R. J. DeRycke: Ocean current monitoring employing a new satellite sensing technique, 482 Stross F. See Heizer, R. E., et al.
- Stross, F. See Heizer, R. F., et al.
- Structure of a dinucleotide: thymidylyl-($5' \rightarrow 3'$)-thymidylate-5' (pTpT), N. Camerman *et al.*, 1142
- Student ratings of teaching: validity of sev-eral rating factors, P. W. Frey, 83 Studier, M. H. See Anders, E., et al. Stumph, W. E. See Sar, M.
- Sturtz, G. S. See Auster, S. L., et al.
- SUGIMURA, A., and S. UNYDA, *book review* of Island arcs, 1239 Sulfur dioxide contributions to the atmo-sphere by volcances, R. E. Stoiber and
- A. Jepsen, 577

Summers, J. E.: George Darwin's father

xiii

- (letter), 535
 susskind, c., Understanding technology, book review of, 815
 Swanson, C. P.: book review of Animal
 - cytology and evolution, 154 Sweet, G. B. See Lavender, D. P., et al. Swets, J. A.: The relative operating charac-
- teristic in psychology, 990 SWIFT, D. J. P., et al. (Eds.), Shelf sedi-
- ment transport, book review of, 1126 Syme, S. L.: book review of Illness, immunity, and social interaction, 912

T

Tannenbaum, M. See Zimmerman, E. A., et al.

- Tarpley, J. L. See Hollinshead, A. C., et al. Tart, C. T., and T. Healey: Parapsychol-ogy (letters), 222
- Tatsumoto, M. See Nunes, P. D.
- Taxonomic and environmental stability in the Paleozoic, C. W. Thayer, 1242
 Taylor, C. E.: book review of The nutri-tion factor, 155
 Taylor, G. E. See Carlson, R. W., et al.

- Taylor, J. D. See Bagnara, J. T., et al. Techniques in somatic cell genetics as they pertain to senescence of diploid cells (meeting report), W. W. Nichols et al., 1164
- TELEKI, G., The predatory behavior of wild chimpanzees, book review of, 57
- Temperature sensitive programming of the silkmoth flight clock: a mechanism for adapting to the seasons, J. W. Truman,

et al.

- ter Meulen, V. See Katz, M. Terrell, J.: book review of The settlement of Polynesia, 1012
- Testing infant intelligence, A. P. Matheny, Jr., et al., 734 Thayer, C. W.: Taxonomic and environ-
- Thayer, C. W.: Taxonomic and environmental stability in the Paleozoic, 1242
 THEILER, M., and W. G. DOWNS, The arthropod-borne viruses of vertebrates, book review of, 273
 Thierry, A. M., et al.: Dopaminergic terminals in the rat cortex, 499
 Thomas, G. E. See Fastie, W. G., et al.
 Thompson, W. H. See Watts, D. M., et al.
 Tjandramaga, T. B. See Anton, A. H., et al.

To grow or not to grow: that's not the

To grow or not to grow: that's not the relevant question, R. G. Ridker, 1315 Tobias, C. A. See Benton, E. V., et al. Todaro, G. J. See Lieber, M. M., et al. Todd, K. S., Jr.: book review of The Coc-cidia, 709 Todd, T. See Simmons, G., et al. Tojz, L. H. See Nichols, W. W., et al. Tooze, J. (Ed.), The molecular biology of tumor viruses, book review of, 1338 Torrey, T. W.: book review of Develop-mental nenbrology 48

Tosteson, D. C. See Gutknecht, J. TOULMIN, S., Human understanding, book review of, 1121 Transovarial transmission of LaCrosse

virus (California encephalitis group) in the mosquito, Aedes triseriatus, D. M. Watts et al., 1140
Transplantation of cultured tissue (letter), P. R. Kerkof, 1084
Transplantation of tissues (letter), M. Prunieras, 433
Traverse, A. See Cornet, B., et al.
Trefall, H.: Extra deaths (letter), 776
Trigeminal deafferentation and feeding in the pigeon: sensorimotor and motiva-

the pigeon: sensorimotor and motiva-

tional effects, H. P. Zeigler, 1155 Tropical agroecosystems, D. H. Janzen, 1212

Troyer, D.: Knowledge factory (letter), 221 Truman, J. W.: Temperature sensitive programming of the silkmoth flight clock: a mechanism for adapting to the seasons, 727

virus (California encephalitis group) in

- Tully, J. G. See Whitcomb, R. F., et al. Tully, J. G., et al.: Plant mycoplasmas:
- serological relation between agents associated with citrus stubborn and corn stunt diseases, 827
- Turbulent diffusion in the environment, G. T. CSANADY, *book review* by O. M. Phillips, 707 Turner, D. L., *et al.*: Radiometric ages of Kodiak Seamount and Giacomini Guyot,
- Gulf of Alaska: implications for circum-Pacific tectonics, 579

Turner, V. See Fernandez, J. W.

- TUROV, E. A., and M. P. PETROV, Nuclear magnetic resonance in ferro- and antiferromagnets, book review of, 915
- Turpen, J. B., et al.: Ontogeny and periph-
- eralization of thymic lymphocytes, 931 25-km discontinuity: implications for lunar history, The, G. Simmons *et al.*, 158 TYNDALE-BISCOE, H., Life of marsupials, *book review* of, 572

IJ

- Ulagaraj, S. M., and T. J. Walter: Phonotaxis of crickets in flight: attraction of male and female crickets to male call-
- ing songs, 1278 Underground gasification of coal (*editorial*), P. H. Abelson, 1297
- Understanding technology, C. SUSSKIND, book review by E. S. Ferguson, 815
- Unemployment among biologists (letter), T. H. Curry, 1294
- University cooperation with industry (*letter*), G. E. Dieter, 434 Urgent need for energy conservation, The (*editorial*), P. H. Abelson, 339 UYEDA, S. See SUGIMURA, A.

v

- Valsamis, M. P. See Goldfischer, S., et al. VAN EMDEN, H. F. (Ed.), Insect/plant relationships, book review of, 1125
- van MIEGHEM, J., Atmospheric energetics, book review of, 48
- Van Yserloo, B. See Stewart, R. D., et al. Varma, S. D. See Dvornik, D., et al. Vasectomy: long-term effects, N. J. Alex-ander and A. M. Sackler, 946 Vasopressin and neurophysin: high con-
- centrations in monkey hypophyseal por-
- values in monkey hypophysical portal blood, E. A. Zimmerman et al., 925
 values values values and values values and values values and values values of irradiation on the skeleton, book review of, 818
 Velocity and displacement responses in auditory-nerve fibers, J. J. Zwislocki and W. G. Sokolich, 64
- W. G. Sokolich, 64
- Venus: composition and structure of the visible clouds, R. G. Prinn, 1132 Verrier, R. See Lown, B., et al.
- VIAL, J. L. (Ed.), Evolutionary biology of the Anurans, book review of, 376 Visit to Bulgaria, A (letter), F. T. Man-
- heim, 224 Visual experience without lines: effect on Visual experience without lines: effect off developing cortical neurons, J. D. Petti-grew and R. D. Freeman, 599
 Vitamin B₁₂ and the megaloblastic development, F. I. Haurani, 78
 Volcanic gases: hydrogen burning at Kilauea Volcano, Hawaii, D. P. Cruikshank et al. 277
- shank et al., 277 Volpe, E. P. See Turpen, J. B., et al. von Glasersfeld, E. C. See Rumbaugh, D.
- M., et al. Von Willebrand factor: dissociation from
- antihemophilic factor procoagulant ac-tivity, H. J. Weiss and L. W. Hoyer, 1149
- Vreeburg, J. T. M. See Baum, M. J.Vyas, G. N., et al.: Nonspecificity of hepa-titis B antigen detected with iodine-125labeled antibody, 1368

W

- Wade, M. P. M., and V. Haynes: Artifacts of early man in the New World, 1371
- Wade, N. (News and Comment): agriculture, a forgotten industry, 1321; astronomy in Britain, 900 (erratum, 1008); Bevan to leave AAAS, 1233; Center for Atmospheric Research, 36; International Congress on Drug Education, 1114; microbiology and its hazards, 566; National Center for Atmospheric Re-search has new leadership, 808; pro-tection sought for professional workers, 1002; science still in public favor, 369; Tennessee and evolution, 696; Watergate and verification of the tapes, 1108
- Walker, D. W., and G. Freund: Impair-ment of timing behavior after prolonged alcohol consumption in rats, 597 Walker, R., and J. J. Marcus: The al-batross award (*letters*), 220
- Walker, T. J. See Ulagaraj, S. M.
 Wallace, R. F., et al.: Stimulus change contemporaneous with food presentation maintains responding in the presentation food food food.
- walsh, J. (News and Comment): Addiction Research Center, 1229; Coleman as a blue-chip adviser, 142; Electric Power Research Institute, 263; narcotics hospital in Lexington, Kentucky, 1004; National Institute of Education's budget cut, 804; notes on 1973, 1328; R & D and science policy 1326; science politics, 365; space shuttle and European pay-load, 562; youth and President's Science Advisory Committee, 141
- Wands, B. See Roberts, A. S., Jr., et al.
- Wang, H. See Simmons, G., et al.
 Ward, P.: Science, San Francisco, and health care (AAAS), 1280
 WARD, R. G. See LEVISON, M., et al.
 Waters, J. W. See Staelin, D. H., et al.
 Waters, J. M. See Staelin, D. H., et al.
- Watts, D. M., et al.: Transovarial trans-mission of LaCrosse virus (California encephalitis group) in the mosquito, *Aedes triseriatus*, 1140
- WEBB, J. W. See LEVISON, M., et al.
- Webb, R. A. See Wheatley, J. C. WEHNER, R. (Ed.), Information process-ing in the visual systems of arthropods, book review of, 913
- Weiss, H. J., and L. W. Hoyer: Von Willebrand factor: dissociation from antihemophilic factor procoagulant activity, 1149
- area variations in health care delivery, 1102 Wennberg, J., and A. Gittelsohn: Small
- Wertime, T. A.: The beginnings of metallurgy: a new look, 875 Wessells, M. G.: Errorless discrimination,
- autoshaping, and conditioned inhibition, 941
- Westman, W. E. See Sagan, L. A., et al.
- Wetherill, G. W. See Rabinowitz, M. B.,
- et al. See also Zimmerman, P. D. Wetherill, G. W., et al.: Chondrites: ini-tial strontium-87/strontium-86 ratios and the early history of the solar system, 281
- WETHERILL, G. W. See DONATH, F. A., et al. Wheatley, J. C., and R. A. Webb: Milli-kelvin temperatures measured with a
- noise thermometer, 241 Wheeler, J. W., and M. S. Blum: Alkyl-pyrazine alarm pheromones in ponerine
- ants, 501 Wheeler, T. G. See Benolken, R. M.,
- et al.
- Whillans, I. M.: State of equilibrium of the west Antarctic inland ice sheet, 476 Whitcomb, J. H. See Ellsworth, W. L.,
- Whitcomb, R. F. See Tully, J. G., et al. Whitcomb, R. F., et al.: Spiroplasmas and

acholeplasmas: multiplication in insects, 1251

- WHITE, M. J. D., Animal cytology and evolution, *book review* of, 154 White, P. C., and J. S. Fordyce: Auto
- White, P. C., and J. S. Foldyce. Auto pollution research (*letters*), 774 White, R. S. *See* Stansberry, K. G. Whitman, R. J. *See* Pimentel, D., *et al.* WHITTON, B. A. *See* CARR, N. G. Wickerhauser, M.: Fractionation services

- (letter), 116 Wilbur, H. M., and J. P. Collins: Ecolog-ical aspects of amphibian metamor-
- phosis, 1305 Wilcox, J. M.: book review of Solar activity observations and predictions, 49 Wildavsky, A.: book review of Politicians,
- bureaucrats, and the consultants, 1335 Wilkins, N. P., and J. Levinton: Genetic variation in marine bivalvia (Mollusca),
- 946
- Wilkinson, D. T. See Bender, P. L., et al.
 Wilkinson, E. E.: book review of Evolutionary biology of the Anurans, 376
 Williams, J. G. See Bender, P. L., et al.
 Wilson, R. S. See Matheny, A. P., Jr.,
- et al.
- Wisniewski, H. K. See Goldfischer, S., et al.
- WONG, K. C. See CRACKNELL, A. P. Wood, S., Jr. See McCroskery, P. A.,
- et al. Work, T. H.: book review of The arthro-
- work, T. H. book review of the attrict pod-borne viruses of vertebrates, 273 wRigHT, C. A. See CANNING, E. U. Wunderlich, F., et al.: Direct evidence for a colchine-induced impairment in the
 - mobility of membrane components, 1136

Х

Xenotropic viruses: enotropic viruses: murine lev viruses associated with NIH leukemia Swiss, NZB, and other mouse strains, J. A. Levy, 1151

Y

Yong, M. S.: Stability of catecholamines Yong, M. S.: Stability of catecholamines and propranolol covalently bound to Sepharose and glass beads, 157
Young, D. M. See Puretz, D. H., et al.
Young, M. See Hier, D. B., et al.
Yuill, T. M. See Watts, D. M., et al.
Yunis, E. J. See Kersey, J. H., et al.
Yuspa, S. H. See Sporn, M. B., et al.

Z

- Zaerr, J. B. See Lavender, D. P., et al. Zaret, T. M., and R. T. Paine: Specific introduction in a tropical lake, 449 Species
- Zeigler, H. P.: Trigeminal deafferentation
- and feeding in the pigeon: sensorimo-tor and motivational effects, 1155 Zigmond, M. J., and E. M. Stricker: Recovery of feeding and drinking by rats after intraventricular 6-hydroxy-denoming or letteral hypothelamic letters. dopamine or lateral hypothalamic lesions,
- Zimmerman, E. A., et al.: Vasopressin and neurophysin: high concentrations in monkey hypophyseal portal blood, 925
- 925
 Zimmerman, P. D., and G. W. Wetherill: Asteroidal source of meteorites, 51
 Zittel, P. F. See Moore, C. B.
 Zohary, D., and M. Hopf: Domestication of pulses in the Old World, 887
 Zwarun, A. A.: Persecution of Soviet sci-entists (letter), 535
 Zwislocki, J. J., and W. G. Sokolich: Velocity and displacement responses in auditory-nerve fibers 64

auditory-nerve fibers, 64