Index to Volume 170, October-December 1970

Number | Date of Issue | Pages | Number | Date of Issue | Pages
---|---|---|---|---|---
3953 | 2 October | 1–116 | 3960 | 20 November | 773–920
3954 | 9 October | 117–208 | 3961 | 27 November | 921–1012
3955 | 16 October | 209–380 | 3962 | 4 December | 1013–1144
3956 | 23 October | 381–480 | 3963 | 11 December | 1145–1244
3957 | 30 October | 481–564 | 3964 | 18 December | 1245–1352
3958 | 6 November | 565–672 | 3965 | 25 December | 1353–1436
3959 | 13 November | 673–772

Names of authors of books reviewed are printed in SMALL CAPITALS.

A

Association Affairs: annual meeting, 101, 201, 347, 471, 559, 655, 765, 873, 1004, 1116, 1230, 1336
Abelson, P. H. (editorials): Communications satellites, 813; costs versus benefits of increased electric power, 1159; “Pieces of the action,” 265; Pollution by organic chemicals, 495
Aboriginal trephination: case from southern New England?, B. W. Powell, 752
Acetylcholine concentration in rat brain: diurnal oscillation, I. Hanin et al., 341
Actomyosin from Physarum polycephalum: electron microscopy of myosin-enriched preparations, V. T. Nachmias and W. C. Ingram, 743
Adenosine 3',5'-monophosphate in rat pininal gland: increase by induced light, M. S. Ebadi et al., 188
Adenyl cyclase of cultured mammalian cells: activation by catecholamines, M. H. Markman, 1421
Advances in human genetics, H. HARRIS and K. HIRSCHHORN (Eds.), book review by V. A. McKusick, 1296
Advances in human genetics and their impact on society (AAAS), D. S. Borgaonkar and S. A. Shah, 347
Agranoff, B. W., et al., Progress in molecular and subcellular biology, book review of, 1072
Air pollution surveillance systems, G. B. Morgan et al., 289
Alam, S. N. See Dyson, W. H., et al.
Albert, R. D., and P. J. Lindstrom: Auroral-particle precipitation and trapping caused by electrostatic double layers in the ionosphere, 1398
Alcohol dehydrogenase in maize: genetic control of enzyme activity, Y. Efron, 751
Alexander, M. See Focht, D. D.
Alexander, R. S. See Visscher, M. B., et al.
Alfred Kroeker, T. KROEBER, book review by H. E. Driver, 1391
Alfvén, H. See Guth, J. H., et al.
Alkalinity and formation of zeolites in saline alkaline lakes, R. H. Mariner and R. C. Surdam, 977
Allen, A. A., et al.: Natural oil seepage at Coal Oil Point, Santa Barbara, California, 974
Allen, S. T. See Svec, K. H.
Amended to AAAS constitution (AAAS), 1007
American institutions and ecological ideals, L. MATT, 1159
Ames, B. N. See Singer, C. E.
Amino acid synthesis in simulated primitve environments, H. R. Hulett et al., 1112
Amygdaloid nucleus: new afferent input from the vornomeral organ, S. S. Winans and F. Scalia, 330
Analysis of air pollutants, The, W. LEITHE, book review by E. Sawicki, 843
Analysis of data in a study of nest parasitism, productivity, and clutch size in purple martins, H. W. Norton et al., 1112
Analysis of pesticide residues, The: new problems and methods, D. J. Lisk, 589
Anatomy of Paramaecium aurelia, The, A. JURAND and G. G. SELMAN, book review by W. J. van Wagtendonk, 155
Anders, E. See Ganapathy, R., et al. See also Lancel, M. S.
Anderson, A. C., and L. S. Good (Eds.), The beige as an experimantal dog, book review of, 723
Anderson, E. See HAYMAKER, W., et al.
Anderson, E. C., et al.: Synchronous culture production by density selection, 97
Angio, E. E. See Pattison, E. S., et al.
Antarctic ecology, M. W. HOLDGATE (Ed.), book review by J. L. Gressett, 1073
Antarctic glaciation during the Tertiary recorded in sub-Antarctic deep-sea cores, S. V. Margolis and J. P. Kennett, 1085
Antibody to nuclear material eluted from isolated spleen vessels in systemic lupus erythematosus, K. H. Svec and S. T. Allen, 550
Antiphagocytic cells in normal mouse thymus, F. Modabber et al., 1102
Antigen competition: a paradox, R. H. Waterston, 1108
Animalialarias: effects on in vivo and in vitro protein synthesis, K. A. Conklin and S. C. Chou, 1213
Antitumor activity in mice of tentacles of two tropical sea anemids, F. L. Tabrak et al., 181
Apollo 12 lunar samples: trace element analysis of a core and the uniformity of the regolith, R. Ganapathy et al., 533
Apostrophe in Sorghum bicolor (L.) Moench, W. W. Hanna et al., 338
Appalachia: focus of health care (letter), W. W. Dow, 680
April, R. W., and D. N. Hume: Environmental mercury: rapid determination in water at nanogram levels, 849
ARRB, M. A., Theories of abstract automata, book review of, 55
Archaeology of early man, The, J. M. cow and the megafauns, book review by F. Wendor, 963
Archaeopteryx: notice of a "new" specimen, J. H. Ostrom, 537
Armstrong, W. M.: Emigration: a safety valve (letter), 477
Arnett, E. M.: Computer-based chemical information services, 1370
Arrhenius, G. See Guth, J. H., et al.
Arsenic and water pollution hazard, E. S. Pilkinton et al., 870
Aspartylphenylalanyl methyl ester: a low-calorie sweetener, M. R. Cloninger and R. E. Baldwin, 81
Aspirin: intestinal damage in rats, D. A. Brodie et al., 183
Asteroid landing, J. H. Guth et al., 1431
Atmospheric aerosol: does a background level exist?, W. M. Porch et al., 315
Attention and psychological change in the young child, J. Kagan, 826
Attitudes toward women: flexible or feudal (letters), A. S. Whittlin et al., 1258
Atwater, M. A.: Planetary albedo changes due to aerosols, 64
Auerbach, R.: LSD: teratogenicity in mice, 558
Auroral-particle precipitation and trapping caused by electrostatic double layers in the ionosphere, R. D. Albert and P. J. Lindstrom, 1398
Average evoked potentials, E. DONCHIN and D. B. LINDSLEY (Eds.), book review by T. Estrin, 842
Axiomatization of the theory of relativity, H. REICHENBACH, book review by K. F. Schaffner, 51
Axnick, N. W. See Brown, W. J., et al.
INDEX TO VOLUME 170

Ekistics, the science of human settlements, C. A. Doxiadis, 393
Elberg, S. S. See Warfel, A. H.
Electrical coupling: low resistance junctions between mitotic and interphase fibroblasts in tissue culture, P. O'Lague et al., 464
Electromagnetics of the sea (meeting report), J. R. Wait, 1125
Electrolyte microanalysis of a normal centriole, P. W. Schafer and J. A. Chandler, 1204
Elementary particle theory, A. D. Martin and M. J. Counce, book review by M. J. Moravcisk, 1295
Elliott, L., et al.: Genetically controlled total deficiency of the fourth component of complement in the guinea pig, 74
Emigration: a safety valve (letter), W. M. Armstrong, 491
Emlen, S. T.: Celestial rotation: its importance in the development of migratory orientation, 1198
Energy and epilepsy, R. C. Collins et al., 143
Energy transduction: inhibition of cockroach feeding by naphthoquinone, D. M. Norris et al., 754
Energy transfer and organic photochemistry, A. A. Lamola and N. J. Turro, book review by J. P. Ridge, 121
Energy without pollution (letters), D. Berg et al., 17
Englend, A. W., and T. Page: Manned space application: case for Apollo (letters), 1033
Engstrom, H. See Bredberg, G., et al.
Environmental mercury: rapid determination in biological samples at ultratrace levels, R. W. Aprill and D. N. Hummel, 549
Environmental protection in the City of New York, M. Eisenbud, 706
Enzyme specificity as a factor in regulation of fatty acid chain length in Escherichia coli, M. D. Greenspan et al., 2013
Enzymes and isoenzymes, D. Shugar (Ed.), book review by A. Ginsburg, 964
Epstein, J.: Rate of decomposition of GB in seawater, 1396
Equal work—unequal pay (letters), T. T. Kennedy et al., 1358
Erickson, S. C., et al.: Brutsuch struck down (letters), 984
Errors in telegraphic texts (letters), A. R. Martin, 1039
Erythritol and the regulation of erythropoiesis, S. B. Krantz and L. O. Jacobson, book review by A. S. Gordon, 964
Esser, A. H., and V. R. Hamon: Is there a generation gap in science (AAAS), 1336
Estrin, T.: book review of Average evoked potentials, 842
Estrous induction of ornithine decarboxylase in vivo and in vitro, S. Cohen et al., 336
Etzioni, A. (editorial): Fact-crazy, theory-shy?
Eutrophic—key elements (letters), H. S. Reuss et al., 1153
Evans, H. E.: book review of The Insects of Australia, 722
Exposure response and behavior in cats, R. A. Hall et al., 998
Extraretinal light perception: entrainment of the biological clock controlling lizard locomotor activity, H. Underwood and M. Menaker, 190
Fact-crazy, theory-shy? (editorial), A. E.
Falcon, W. P.: book review of Subsistence agriculture and economic development, 616
Farber, E.: book review of The cancer chemotherapy handbook, 54
Far-ultraviolet photography of Orion: interstellar dust, R. C. Henry and G. R. Carruthers, 527
Fastion to Daddario (letter), F. A. Long, 1254
Federal graduate aid: errors in planning and support (letter), F. D. Felock, 122
Federal largesse (letter), R. A. Carpenter, 850
Feiock, F. D.: Federal graduate aid: errors in planning and support (letter), 122
Feingold, C., et al.: A base for predicting success (letters), 491
Feldberg, R. S., and P. Datta: Threonine deaminase: a novel activity stain on polyacrylamide gels, 1414
Felg, P., and V. Lynch: Starvation in human pregnancy: hypoglycemia, hyperinsulinism, and hyperketonemia, 990
Felli, H. B., See Dingle, J. T.
Ferov, G. N.: Soviet synthesis of element 105 (letter), 15
Ferwerda, F. P., and F. W: Outlines of perennial crop breeding in the tropics, book review of, 724
Fields, H. L. See McIlvain, J. T.
Filip, S. M.: Vigor of northern hardwoods (letter), 263
Fine structure of the exoenzymicystic stage of Plasmodium cynomolgi, T. Sodeman et al., 340
Fish in research, O. W. Newhaus and J. E. Halver (Eds.), book review by W. S. Hoar, 153
Fleischer, R. L., et al.: Particle track identification: application of a new technique to Apollo helments, 1189
Flour beetles responses to extracts of their own pupae, M. F. Ryan et al., 178
Flow through porous media, R. J. M. DeWiest (Ed.), book review by G. F. Cochran and J. V. A. Sharp, 618
Flowers, B. H.: Science on a tight budget (editorial), 1361
Fluorescence assay in biology and medicine, S. Udenfriend, book review by L. Hurand, 1394
Fluorescent labeling of chromosomal DNA: superiority of quinacrine mustard to quinacrine, T. Casperson et al., 762; erratum, 1067
Fluorocitrate dehydrogenase of anaerobes: ring fission by Hydrogenomonas, 91
Food studies and null hypotheses (letter), A. L. Henschel, 228
Formation of "photodiod" by microorganisms, F. Matsumura et al., 1206
Fortes, M., Kinship and the social order, book review of, 141
Foster, R.: Organic charge-transfer complexes, book review of, 1076
Fox, P. J., et al.: Jurassic sandstone from the tropical Atlantic, 1402
Fox, S. W., and C. R. Windsor: Synthesis of amino acids by the heating of formaldehyde and ammonia, 984
Fraenkel-Conrat, H., The chemistry and biology of viruses, book review of, 154
France: reducing the ratio (letter), S. Wolfenstein, 581
Franz, A. G., and D. L. Kleinberg: Prolectin: evidence that it is separate from growth hormone in human blood, 745
French research leader receives award for accomplishment in solid state field, W. C. Koehler (News and Comment), 606
Friend, M., and D. O. Trainer: Polychlorinated biphenyl: interaction with duck hepatitis virus, 1314
Fuglson, F. C. See Schmitz, W. J., Jr., et al.

G
Gaddum, P., and R. J. Blundau: Proteolytic reaction of mammalian spermatozoa on gelatin membranes, 749
Galaxies and the universe, J. H. Oort, 1136
Galle, O. K. See Pattison, E. S., et al.
Galston, A. W.: book review of Cellular differentiation in plants and other essays, 841
Ganapathy, R., et al.: Apollo 12 lunar samples: trace element analysis of a core and the uniformity of the regolith, 531
Garvey, W. D., et al.: Communication in the physical and the social sciences, 1166
Gelboin, H. V., et al.: Dimethylbenzanthracene tumorigenesis and aryl hydrocarbon hydroxylase in mouse skin: inhibition by 7,8-benzoflavone, 169
Gell, S. See Feldberg, L., et al.
Genetic inactivation of the a-galactosidase locus in carriers of Fabry's disease, G. Romeo and B. R. Migeon, 180
Genetic organization, E. W. Cascap and A. W. Ravn (Eds.), book review by P. Howard-Flanders, 724
Genetic variation of cholesterol ester content in mouse adrenals, C. H. Doering et al., 1220
Genetically controlled total deficiency of the fourth component of complement in the guinea pig, 993
Geologists prefer earth studies (letter), J. A. Noble, 678
Gerschenson, L. E., et al.: Tyroside transamidase induction by dexamethasone in a new rat liver cell line, 589
Gershon, H. See Macko, V., et al.
Geschwind, N.: The organization of language, 984
Ghiselin, J., and R. B. Rickless: Prey population: a parsimonious model for evolution of response to predator species diversity, 924
Ghiselin, M. T.: book review of La selection naturelle, 523
Gibbon fibrinopeptides: identification of a glycine-serine allele at position B-3, G. A. Mross et al., 468
Instructions for Contributors

The Editors of Science

Manuscripts submitted to Science for consideration for publication can be handled expeditiously if they are prepared in the form described in these instructions.

Submit an original and two duplicates of each manuscript. With the manuscript send a letter of transmittal giving (i) the name(s) of the author(s); (ii) the title of the paper and a one- or two-sentence statement of its main point; (iii) the name, address, and field of interest of 4 to 6 persons outside your institution who you think are qualified to act as referees for your paper; (iv) the fields of interest of readers who you anticipate will wish to read your paper.

Editorial Policies

All papers submitted are considered for publication. The author's membership or lack of membership in the AAAS is not a factor in selection. Papers are accepted with the understanding that they have not been published, submitted, or accepted for publication elsewhere. Authors will usually be notified of acceptance, rejection, or need for revision in 4 to 6 weeks (Reports) or 6 to 10 weeks (Articles).

Types of papers. Five types of signed papers are published: Articles, Reports, Letters, Technical Comments, and Book Reviews. Familiarize yourself with the general form of the type of paper you wish to submit by looking over a recent issue of the journal, and then follow the instructions for that type of paper.

Reviews. Almost all Articles, Reports, and Technical Comments, whether solicited or not, are sent to two or more outside referees for evaluation of their significance and soundness. Forms showing some of the criteria reviewers are expected to consider are available on request.

Editing. Papers are edited to improve the effectiveness of communication between the author and his readers. The most important goal is to eliminate ambiguities. In addition, improvement of sentence structure often permits readers to absorb salient ideas quickly. When editing is extensive, with consequent danger of altered meanings, papers are returned to the author for correction and approval before type is set. Authors are free to make additional changes at this stage.

Proofs. One set of galley proofs or an equivalent is provided for each paper. Keep alterations to a minimum, and mark them only on the galley, not on the manuscript. Extensive alterations may delay publication by 2 to 4 weeks.

Reprints. An order blank for reprints accompanies proofs.

Writing Papers

Organize your material carefully, putting the news of your finding or a statement of the problem first, supporting details and arguments second. Make sure that the significance of your work will be apparent to readers outside your field, even if you feel you are explaining too much to your colleagues. Present each step in terms of the purpose it serves in supporting your finding or solving the problem. Avoid chronological steps, for the purpose of the steps may not be clear to the reader until he finishes reading the paper.

Provide enough details of method and equipment so that another worker can repeat your work, but omit minute and comprehensive details which are generally known or which can be covered by citation of another paper. Use metric units of measure. If measurements were made in English units, give metric equivalents.

Avoid specialized laboratory jargon and abbreviations, but use technical terms as necessary, defining those likely to be known only in your field. Readers will skip a paper they do not understand. They should not be expected to consult a technical dictionary.

Choose the active voice more often than you choose the passive, for the passive voice usually requires more words and often obscures the agent of action. Use first person, not third; do not use first person plural when singular is appropriate. Use a good general style manual, not a specialty style manual. The University of Chicago style manual, the style manual of the American Institute of Physics, and the Style Manual for Biological Journals, among others, are appropriate.

Manuscripts

Prepare your manuscript in the form used by Science. Use bond paper for the first copy. Submit two duplicates. Double-space title, abstracts, text, signature, address, references (including the lines of a single reference), figure legends, and tables (including titles, columns, headings, body, and footnotes). Do not use single spacing anywhere. Put the name of the first author and the page number in the upper right-hand corner of every page.

Paging. Use a separate page for the title; number it page 1. Begin each major section—text, references and notes, and figure legends—on a new sheet. Put each table on a separate sheet. Place figure legends and tables after the references.

Title. Begin the title with a word useful in indexing and information retrieval (not “Effect” or “New”).

References and Notes. Number all references to the literature, footnotes, and acknowledgments in a single sequence in the order in which they are cited in the text. Gather all acknowledgments into a single citation, and keep them short (“I thank,” not “I wish to thank”). Cite all references and notes but do not cite them in titles or abstracts. Cite several under one number when feasible. Use Chemical Abstracts List of Periodicals for abbreviations of journal names. If the journal is not listed there, provide the full name. Use the following forms:


Illustrations. Submit three copies of each diagram, graph, map, or photograph. Cite all illustrations in the text and provide a brief legend, to be set in type, for each. Do not combine line
drawings and photographs in one illustration. Do not incorporate the legend in the figure itself. Use India ink and heavy white paper or blue-lined coordinate paper for line drawings and graphs. Use heavier lines for curves than you use for the axes. Place labels parallel to the axes, using capital and lower-case letters; put units of measurement in parentheses after the label—for example, Time (sec). Plan your figures for the smallest possible printed size consistent with clarity.

Photographs should have a glossy finish, with sharp contrast between black and white areas. Indicate magnification with a scale line on the photograph.

Tables. Type each table on a separate sheet, number it with an Arabic numeral, give it a title, and cite it in the text. Double space throughout. Give each column a heading. Indicate units of measure in parentheses in the heading for each column. Do not change the unit of measure within a column. Do not use vertical rules. Do not use horizontal rules other than those in the heading and at the bottom. A column containing data readily calculated from data given in other columns can usually be omitted; if such a column provides essential data, the columns containing the other data can usually be omitted.

Plan your table for small size. A one-column table may be up to 42 characters wide. Count characters by counting the widest entry in each table column (whether in the body or the heading) and allow three characters for spaces between table columns. A two-column table may be 90 characters wide.

Equations and formulas. Use quadrant spacing around all equations and formulas that are to be set off from the text. Most should be set off. Start them at the left margin. Use the solidus for simple fractions, adding the necessary parentheses. But if braces and brackets are required, use built-up fractions. Identify handwritten symbols in the margin, and give the meanings of all symbols and variables in the text immediately after the equation.

Articles

Articles, both solicited and unsolicited, may range in length from 2000 to 5000 words (up to 20 manuscript pages). Write them clearly in reason-