LETTERS
Exercise and Heart Disease: E. Jakobsson; The Biome Programs: J. H. Gibson; W. F. Blair; J. Downhower and R. Mayer
822

EDITORIAL
Unfreezing the Future: C. J. Hitch
825

ARTICLES
Perovskite Oxides: Materials Science in Catalysis: R. J. H. Voorhoeve et al...
827
Control of Influenza and Poliomyelitis with Killed Virus Vaccines: J. Salk and D. Salk
834
Interpreting Cancer Survival Rates: J. E. Enstrom and D. F. Austin
847

NEWS AND COMMENT
New Administration: EPA Nominees Seem Acceptable to All Sides
852
Aftermath of the New Math: Its Originators Defend It
854
NCAT: Appropriate Technology with a Mission
857

RESEARCH NEWS
Applied Ecology: Showing the Way to Better Insect Control
860
Unconventional Energy Sources: Brazil Looks for Applications
862

AAAS NEWS
1976 AAAS Awards Presented in Denver; Native Americans Project to Compile Resource Bank; Looking Ahead; Nominations Invited for 1977 AAAS Awards and Fellows; Regional Seminar on Ethical Dimensions of Scientific Research Set; Resource Survey for Handicapped Students to Be Undertaken by AAAS; Law-Science Group Appoints New Members; New Publications; For the Library
864

BOOK REVIEWS
Evolution and the Diversity of Life, reviewed by P. H. Raven; Starfish, Jellyfish, and the Order of Life, J. Farley; Heredity, Environment, and Personality, I. I. Gottesman and H. H. Goldsmith; Books Received
867
REPORTS

Eruptions of the St. Augustine Volcano: Airborne Measurements and Observations:
P. V. Hobbs, L. F. Radke, J. L. Stith .................................................. 871

Avian Muscular Dystrophy: Functional and Biochemical Improvement with
Diphenylhydantoin: R. K. Enrikin et al.................................................. 873

Effect of Delta-9-Tetrahydrocannabinol on Uterine and Vaginal Cytology of
Ovariectomized Rats: J. Solomon, M. A. Cocchia, R. DiMartino ............. 875

Lysis of Human Cultured Lymphoblastoid Cells by Cell-Induced Activation of the
 Properdin Pathway: A. N. Theofiliopoulos and L. H. Perrin .................. 878

Angiogenesis: A Marker for Neoplastic Transformation of Mammary Papillary
Hyperplasia: S. S. Brem, P. M. Gullino, D. Medina .................................. 880

Endothermy During Terrestrial Activity in Large Beetles: G. A. Bartholomew and
T. M. Casey .......................................................................................... 882

Arginyl Residues: Anion Recognition Sites in Enzymes: J. F. Riordan,
K. D. McElvany, C. L. Borders, Jr ...................................................... 884

Chemosensory Tracking of Scent Trails by the Planktonic Shrimp Acetes sibogae
australis: P. Hamner and W. M. Hamner .............................................. 886

Paradoxical Effects of Amphetamine on Preweanling and Postweanling Rats:
B. A. Campbell and P. J. Randall ......................................................... 888

Superhelix Densities of Circular DNA's: A Generalized Equation for Their
Determination by the Buoyant Method: W. B. Upholt ........................... 891

Pathogenic Mycoplasmas: Cultivation and Vertebrate Pathogenicity of a New
Spiroplasma: J. G. Tully et al. ............................................................... 892

Vision in Insects: Pathways Possibly Underlying Neural Adaptation and Lateral
Inhibition: N. J. Strausfeld and J. A. Campos-Ortega .......................... 894

Surface Molecules of Hematopoietic Stem Cells: Requirement for Sialic Acid in
Spleen Colony Formation: Q. Tonelli and R. H. Meints ........................ 897

Membrane Potential of Mitochondria Measured with Microelectrodes: B. L. Maloff,
S. P. Scordilis, H. Tedeschi ............................................................. 898

Weaver Ants: Social Establishment and Maintenance of Territory: B. Hölldobler
and E. O. Wilson ................................................................................. 900

Technical Comments: The Biome Programs: Evaluating an Experiment:
S. I. Auerbach, R. L. Burgess, R. V. O'Neill; Is Delta-9-Tetrahydrocannabinol
Estrogenic?: A. B. Okey and G. P. Bondy; J. Solomon and M. A. Cocchia .... 902

COVER

[Cloud Physics Group, University of Washington, Seattle]