LETTERS
NCI Disinvitation: S. W. Samuels; J. M. Calhoon: Marsupials in the Lab: J. F. Morton; Prevention of Long-Term and Disabling Diseases: M. Kramer and E. M. Gruenberg; G. B. Gori and B. J. Richter

EDITORIAL
Science in the Political Economy

ARTICLES
Solar Fuels: J. R. Bolton
Gene Dosage Compensation and the Evolution of Sex Chromosomes: J. C. Lucchesi

NEWS AND COMMENT
Accident and Hostile Citizens Beset Animal Disease Laboratory
Senator Chides Gene Debate Doubters
Fermilab Receives a New Director: Upsilon Discoverer Gets the Job
Final Word on Disputed Mastectomies
Kennedy School Has Niche for Science and Technology
Science Show for Children Being Developed for TV

RESEARCH NEWS
Behavioral Teratology: Birth Defects of the Mind
The New Physics: Quarks, Leptons, and Quantum Field Theories
Fields Medals (IV): An Instinct for the Key Idea: D. Mumford and J. Tate

BOOK REVIEWS
William Henry Bragg, 1862–1942, reviewed by J. L. Heilbron; Cytochalasins, L. Wilson; Cell Cycle Regulation, J. M. Mitchison; Dynamics of...
Planets and Satellites and Theories of Their Motion, P. Nacozy; Books Received and Book Order Service 740

REPORTS

Neodymium and Strontium Isotope Evidence for Crustal Contamination of Continental Volcanics: S. R. Carter et al. 743
Shark Skin: Function in Locomotion: S. A. Wainwright, F. Vosburgh, J. H. Hebrank 747
Acoustic Detection of Cosmic-Ray Air Showers: W. L. Barrett 749
Metastable Oxygen Emission Bands: T. G. Slanger 751
Size Fractionation Methods: Measuring Plutonium in Respirable Dust: J. A. Hayden 753
S-Adenosylhomocysteine Hydrolase Is an Adenosine-Binding Protein: A Target for Adenosine Toxicity: M. S. Hershfield and N. M. Kredich 757
Entry of Insulin into Human Cultured Lymphocytes: Electron Microscope Autoradiographic Analysis: I. D. Goldfine et al. 760
Growth of Infective Forms of Trypanosoma rhodesiense in vitro, the Causative Agent of African Trypanosomiasis: G. C. Hill et al. 763
Cellular Interactions Uncouple β-Adrenergic Receptors from Adenylate Cyclase: G. Ciment and J. de Vellis 765
Neuronal Plasticity in Primate Telencephalon: Anomalous Projections Induced by Prenatal Removal of Frontal Cortex: P. S. Goldman 768
Caste in a Primitive Ant: Absence of Age Polyethism in Amblyopone: J. F. A. Tranileio 770
Prolonged Inhibition in Burst Firing Neurons: Synaptic Inactivation of the Slow Regenerative Inward Current: W. A. Wilson and H. Wachtel 772
Decrease in Adrenergic Axon Sprouting in the Senescent Rat: S. W. Scheff, L. S. Bernardo, C. W. Cotman 775
Center-Surround Organization of Auditory Receptive Fields in the Owl: E. I. Knudsen and M. Konishi 778

COVER

Photomicrograph, taken with polarized light, of an oblique section through three layers of collagen fibers in the skin of a blacknose shark (Carcharhinus acronotus). Fibers are about 50 micrometers in diameter. See page 747. [Stephen A. Wainwright, Duke University, Durham, North Carolina 27706]