LETTERS
Defense Research: J. J. Stone; Cost of the Space Shuttle: R. E. Lapp; AAAS Meeting: M. E. Clutter and V. Walbot; F. H. Babers; R. J. Arthur; Social Responsibility: L. McClinstock; B. R. Stein; Shape and Structure: C. Kopala; Dyslexia: A Personal View: A. Peterson; Erroneous Reference: T. E. Reed

EDITORIAL
Federal Support of Graduate Education

ARTICLES
Gene Therapy for Human Genetic Disease?: T. Friedmann and R. Robijn
Protein Synthesis: Its Control in Erythropoiesis: P. A. Marks and R. A. Rijkind
Information for a Changing Society: E. L. Brady and L. M. Branscomb

NEWS AND COMMENT
Division of Biologics Standards: Scientific Management Under Question
The News about Stockholm Isn't All Bad, State Officials Say
Office of Technology Assessment: Congress Smiles, Scientists Wince
Carlsberg Laboratory: Ferment over Future of Copenhagen Lab.

BOOK REVIEWS
Scientific Methods in Medieval Archaeology, Science and Archaeology, and The Impact of the Natural Sciences on Archaeology, reviewed by J. E. Fitting; Environment, P. A. Jordan; The Radiation Chemistry of Water, M. S. Matheson; Lignins, J. M. Harkin; Colloque sur la Paléocologie des Ostracodes, R. V. Kesling; Comparative Physiology of Respiratory Mechanisms, D. C. Jackson and R. E. Forster; Chemical Mutagens and Chemical Mutagenesis in Mammals and Man, W. G. Flamm and L. Fishbein; Lectures on Developmental Physiology, J. Oppenheimer

REPORTS
Infrared Spectral Emittance in Geological Mapping: Airborne Spectrometer Data from Pisgah Crater, California: R. J. P. Lyon
Rock-Type Discrimination from Ratioed Infrared Scanner Images of Pisgah Crater, California: R. K. Vincent and F. J. Thomson
Peripheral Thermoregulation: Foot Temperature in Two Arctic Canines: R. E. Henshaw, L. S. Underwood, T. M. Casey ................................................................. 988
Osmiophilic Polymer Generation: Catalysis by Transition Metal Compounds in Ultrastructural Cytchemistry: J. S. Hanker, W. A. Anderson, F. E. Bloom .................................................. 991
Thyroid Hormone Influence upon Lung Surfactant Metabolism: R. A. Redding, W. H. J. Douglas, M. Stein ................................................................. 994
Tolerance to Sheep Red Cells: Breakage with Thymocytes and Horse Red Cells: R. K. Gershon and K. Kondo ................................................................. 996
Human Phosphoglycerate Kinase and Inactivation of the X Chromosome: B. F. Dyes et al. ................................................................. 1002
Sexual Receptivity: Facilitation by Medial Preoptic Lesions in Female Rats: B. Powers and E. S. Valenstein ................................................................. 1003
H-2 Antigen on Cell Membranes: An Explanation for the Alteration of Distribution by Indirect Labeling Techniques: W. C. Davis ................................................................. 1006
Lateral Interactions at Inner Plexiform Layer of Vertebrate Retina: Antagonistic Responses to Change: F. S. Werbin ................................................................. 1008
Lack of Enhanced Oxygen Consumption by Polymorphonuclear Leukocytes on Phagocytosis of Virulent Salmonella typhi: R. M. Miller, J. Garbus, R. B. Hornick ................................................................. 1010
Mast Cells from Human Respiratory Tissue and Their in vitro Reactivity: R. Patterson et al. ................................................................. 1012
Phosphodiesterase in Dictyostelium discoideum and the Chemotactic Response to Cyclic Adenosine Monophosphate: R. G. Pannbacker and L. J. Bravard ................................................................. 1014
Cyclic Nucleotide Phosphodiesterase in Dictyostelium discoideum: Interconversion of Two Enzyme Forms: B. M. Chassy ................................................................. 1016
Uricotelism and Low Evaporative Water Loss in a South American Frog: V. H. Shoemaker et al. ................................................................. 1018
Mapping of Interactions in the Pitch Memory Store: D. Deutsch ................................................................. 1020
Δ²-Tetrahydrocannabinol and Ethyl Alcohol: Evidence for Cross-Tolerance in the Rat: L. M. Newman et al. ................................................................. 1022

MEETINGS

Intelligent Verbal Behavior: D. A. Norman and R. P. Abelson; Prospects of Gene Therapy: E. Freese ................................................................. 1024

COVER

Acrylic casting of blood vessels in paw of gray wolf. Circulation in the paw and toe pads is almost entirely in cutaneous plexuses; flow of blood in arteries is into the center of plexuses; flow in veins is from the peripheries (about ×1.7). See page 988. [R. E. Henshaw, Pennsylvania State University, University Park]