LETTERS

Animal Feeds: Effect of Antibiotics: J. D. Dingell; Analytical Chemistry Techniques: J. M. Petruzzi; Multiyear Funding Authorization: L. C. Allen .................................................. 1069

EDITORIAL

What to Expect from Gerontological Research?: F. C. Ludwig .................................................. 1071

ARTICLES

Spaceborne Imaging Radar: Geologic and Oceanographic Applications: C. Elachi .................................................. 1073

Phospholipid Methylation and Biological Signal Transmission: F. Hirata and J. Axelrod .................. 1082

Research and Development, Productivity, and Inflation: E. Mansfield .................................................. 1091

NEWS AND COMMENT

Doubts Mounting About All-Volunteer Force .................................................. 1095

Briefing: Rational Suicide; Not What You Know but Where You’re From; House Report Nails AEC for Sheep Deaths .................................................. 1096

Is There a Catch to Innovation? .................................................. 1098

Nitrites: FDA Beats a Surprising Retreat .................................................. 1100

NAS and Sakharov .................................................. 1100

DNA: Chapter of Accidents at San Diego .................................................. 1101

RESEARCH NEWS

Vaccinating with Bacterial Pili .................................................. 1103

Cornell Evidence for Fifth Quark .................................................. 1105

AAAS NEWS

Summer Meetings: Pacific Division, AAAS Affiliates, and Interciencia; Call for Nominations: 1981 General Election; ANZAAS Holds Jubilee Congress; Proposals and Resolutions Invited for 1981 Council Meeting; AAAS
Membership Recruitment Concerns: Carol L. Rogers; CSFR Meeting; Science and the Public of Interest to Chinese Delegation; 1979 AAAS Summary Financial Statements ........................................ 1107

ANNUAL MEETING Science and Technology: Bridging the Frontiers .................................................. 1111

BOOK REVIEWS Zoogeography and Diversity of Plankton, reviewed by B. W. Frost; Comparative Studies of the Courtship and Mating Behavior of Tropical Araneid Spiders, B. D. Opell; Secondary Plant Products, G. R. Waller; Cellular Interactions in Symbiosis and Parasitism, J. J. Lee; Books Received .................................................. 1112

REPORTS Mount St. Helens Ash from the 18 May 1980 Eruption: Chemical, Physical, Mineralogical, and Biological Properties: J. S. Fruchter et al. .................................................. 1116
Composition of the Mount St. Helens Ashfall in the Moscow-Pullman Area on 18 May 1980: P. R. Hooper et al. .................................................................................................................. 1125
Gravitropism in Plant Stems May Require Ethylene: R. M. Wheeler and F. B. Salisbury ................................................................. 1126
J Genes for Heavy Chain Immunoglobulins of Mouse: N. Newell et al. .................................................. 1128
Electrical Stimulation of the Midbrain Mediates Metastatic Tumor Growth: R. H. Simon et al. .................................................. 1132
Flavin Adenine Dinucleotide-Dependent Monooxygenase: Its Role in the Sulfoxidation of Pesticides in Mammals: N. P. Hajjar and E. Hodgson .................................................. 1134
Serial Female Sex Changes After Simultaneous Removal of Males from Social Groups of a Coral Reef Fish: D. Y. Shapiro .................................................. 1136
Alterations in Brain Norepinephrine Metabolism Induced by Environmental Stimuli Previously Paired with Inescapable Shock: G. Cassens et al. .................................................. 1138
Contextual Effects in Infant Speech Perception: P. D. Eimas and J. L. Miller .................................................. 1140
Gastrin Injected into the Lateral Hypothalamus Stimulates Secretion of Gastric Acid in Rats: B. L. Tepperman and M. D. Evered .................................................. 1142


Eruption of Mount St. Helens, 18 May 1980, 8:32 a.m., Pacific Daylight Time. Data are from NOAA/6, orbit 4635, about 90 minutes later, supplied by National Environmental Satellite Service, Redwood City, California. Image produced by IBM Scientific Center, Palo Alto, California. See page 1116 and box on page 1124. [First-time publication courtesy of IBM, © IBM 1980]
Science 209 (4461), 1069-1146.

Use of this article is subject to the Terms of Service