LETTERS

EDITORIAL
Scientists' Responsibility for Public Information: C. B. Raleigh......................... 499

ARTICLES
Selection by Consequences: B. F. Skinner................................................ 501
Laser Microsurgery in Cell and Developmental Biology: M. W. Berns et al. ...... 505
Biomass as a Source of Chemical Feedstocks: An Economic Evaluation: B. O. Palsson et al. ........................................ 513

NEWS AND COMMENT
Nutrition Research: End of an Empire .................................................. 518
Keyworth to Review Space Program .................................................... 519
Reagan Energy Plan Reluctantly Unveiled ........................................... 520
Brain of Einstein Continues Peregrinations .......................................... 521
Reagan Outlines Nonproliferation Policy ............................................. 522

Briefing: Drug Shows Promise Against Herpes; For Sale: A Billion Acres of Outer Continental Shelf; UC Regents Extend Weapons Lab Agreement; Chilean Physicians Released; Science Board Cautiously Supports Social Research; Iraq to Rebuild Reactor ............................................ 524

RESEARCH NEWS
Malathion Threat Debunked ................................................................. 526
Earthquake Prediction Retracted ........................................................... 527
CERN Council Defers LEP Approval ...................................................... 528

BOOK REVIEWS
Harvey and the Oxford Physiologists, reviewed by T. S. Hall; Environmental Physiology of Fishes, J. N. Cameron; Parmana, O. F. Linares; The Hurricane and Its Impact, R. A. Anthes; Dynamics of the Upper Atmosphere, J. M. Forbes; Books Received ................................................................. 532

REPORTS
Initial Effects of Ashfall from Mount St. Helens on Vegetation in Eastern Washington and Adjacent Idaho: R. N. Mack .......................................................... 537
Mount St. Helens Eruption of 18 May 1980: Air Waves and Explosive Yield: W. L. Donn and N. K. Balachandran .......................................................... 539
Rapid Massive Assemble of Tight Junction Strands: B. Kachar and P. Pinto da Silva ................................................. 541

Diketopiperazine Formation During Investigations of Amino Acid Racemization in Dipptides: Š. Steinberg and J. L. Bada .............................................................. 544

Benzodiazepine Inhibition of the Calcium-Calmodulin Protein Kinase System in Brain Membrane: R. J. De Lorenzo, S. Burdette, J. Holderness. ................ 546

Nullisomic Tetrahyymena: Eliminating Germline Chromosomes: P. J. Bruns and T. E. B. Brussard .................................................. 549

Diameter of the Cell-to-Cell Junctional Membrane Channels as Probed with Neutral Molecules: G. Schwarzmann et al. .................................................. 551

Plasmid DNA in Treponema pallidum (Nichols): Potential for Antibiotic Resistance by Syphilis Bacteria: M. V. Norgard and J. N. Miller ............................... 553

Falciparum Malaria-Infected Erythrocytes Specifically Bind to Cultured Human Endothelial Cells: J. J. Udeinya et al. .................................................. 555

Female Feathering in Sebright Cocks Is Due to Conversion of Testosterone to Estradiol in Skin: F. W. George, J. F. Noble, J. D. Wilson .................................................. 557

Copper Deficiency Suppresses the Immune Response in Mice: J. R. Prohska and O. A. Lukasewycz .................................................. 559

Role of Golgi Apparatus in Sorogenesis by the Cellular Slime Mold Fonticula alba: M. C. Deasey and L. S. Olive .................................................. 561

Mesenchymal Cells from the Human Embryonic Palate Are Highly Responsive to Epidermal Growth Factor: T. Yoneda and R. M. Pratt .................................................. 563

Tumor-Induced Anorexia in the Wistar Rat: J. P. Mordes and A. A. Rossini .......................... 565

Pentapeptide (Proctolin) Associated with an Identified Neuron: M. O'Shea and M. E. Adams .................................................. 567

Thyroidectomy Increases Rat Hepatic Ferritin Iron: J. C. Winkelmann et al. ............... 569

Pineal N-Acetyltransferase Is Inactivated by Disulfide-Containing Peptides: Insulin Is the Most Potent: M. A. A. Namoodiri, J. T. Favilla, D. C. Klein .................................................. 571

Early Removal of One Eye Reduces Normally Occurring Cell Death in the Remaining Eye: D. R. Senegal and B. L. Finlay .................................................. 573

Ethanol Tolerance in the Rat Is Learned: J. R. Wenger et al. .................................................. 575

Environmental Sex Determination: Interaction of Temperature and Genotype in a Fish: D. O. Conover and B. E. Kyndard .................................................. 577

The AF64A-Treated Mouse: Possible Model for Central Cholinergic Hypofunction: C. R. Mantione, A. Fisher, I. Hanin .................................................. 579

Δ²-Tetrahydrocannabinol Increases Plasma Testosterone Concentrations in Mice: S. Dallertio, A. Bartke, D. Mayfield .................................................. 581

Tolerance and Cross-Tolerance in Chronic Alcoholics: Reduced Membrane Binding of Ethanol and Other Drugs: H. Rottenberg, A. Waring, E. Rubin .................................................. 583

Technical Comment: Radiation Doses from Mount St. Helens 18 May 1980 Eruption: J. K. Soldat et al. .................................................. 585

COVER

Computer-pseudocolor-enhanced video images of red blood cells following placement of a 2-micrometer laser lesion (dark spots in black-and-white photo). Different color enhancements bring out specific detail not detectable by conventional microscopy. Note small white spot (0.4 micrometer) in red enhancements; this is a hot spot in center of laser lesion not detectable in black-and-white photo. See page 505. [Michael W. Berns, Department of Developmental and Cell Biology, University of California, Irvine 92717]