LETTERS

EDITORIAL
Research Equipment Acquisition: L. M. Branscomb .................................................. 877

ARTICLES
Tectonics and Evolution of Venus: R. J. Phillips et al. .................................................... 879
The Mutation Component of Genetic Damage: J. F. Crow and C. Denniston ................. 888
Conflicting Objectives in Regulating the Automobile: L. B. Lave .................................. 893

NEWS AND COMMENT
New A-Bomb Studies Alter Radiation Estimates .............................................................. 900
Technology Transfer Reappraised .................................................................................. 902
Science Adviser Post Has Nominee in View ................................................................. 903
Briefing: Mormons Rebel on MX; A First Brush with New Broom at NAS; Breeder Stumbles in House; UCLA Designing Big Agent Orange Study; Court Gives Blessing to Hospital of Faith Healer .................................................. 904
News of Bone Research Causes Fracture ..................................................................... 906
Point of View: Leon Rosenberg on the “Human Life” Bill ............................................. 907

RESEARCH NEWS
Cultural Diversity Tied to Genetic Differences ............................................................... 908

BOOK REVIEWS
The Sahara and the Nile and Prehistory of the Eastern Sahara, reviewed by W. R. Farrand; Soviet and Western Anthropology, M. J. Swartz; Fleas, R. E. Lewis; Gene Expression, R. D. Cole; Books Received ........................................ 911

REPORTS
Physical Effects of Vehicular Disturbances on Arid Landscapes: R. M. Iverson et al. ...... 915
Photoperiodic Control and Effects of Melatonin on Nonshivering Thermogenesis and Brown Adipose Tissue: G. Heldmaier et al. ........................................ 917
Cystinuria in the Maned Wolf of South America: K. C. Bovée et al. ............... 919
Membrane Fusion Through Point Defects in Bilayers: S. W. Hui et al. .......... 921
Tumor Shedding and Coagulation: H. F. Dvorak et al. .............................. 923
Elastin Fragments Attract Macrophage Precursors to Diseased Sites in Pulmonary Emphysema: G. W. Hunninghake et al. ...................... 925
Toxicity of Angular Furanocoumarins to Swallowtail Butterflies: Escalation in a Coevolutionary Arms Race?: M. Berenbaum and P. Feeny ... 927
Transmitter Sensitivity of Neurons Assayed by Autoradiography: D. Yoshikami ................................................................. 929
Didemmins: Antiviral and Antitumor Depsipeptides from a Caribbean Tunicate: K. L. Rinehart, Jr., et al. ................................. 933
Gated Sodium-23 Nuclear Magnetic Resonance Images of an Isolated Perfused Working Rat Heart: J. L. DeLayre et al. ......................... 935
Micromolar Calcium Stimulates Proteolysis and Glutamate Binding in Rat Brain Synaptic Membranes: M. Baudry et al. ...................... 937
Protozoan Parasite of Humans: Surface Membrane with Externally Disposed Acid Phosphatase: M. Gottlieb and D. M. Dwyer ........................ 939
Activation of the Transforming Potential of a Normal Cell Sequence: A Molecular Model for Oncogenesis: D. G. Blair et al. .............................. 941
Opiate Withdrawal in utero Increases Neonatal Morbidity in the Rat: L. Lichtblau and S. B. Sparber ............................................. 943
Prenatal Withdrawal from Opiates Interferes with Hatching of Otherwise Viable Chick Fetuses: M. D. Kuwahara and S. B. Sparber ................ 945
Speech Perception Without Traditional Speech Cues: R. E. Remez et al. .... 947
Mate Selection and Behavioral Thermoregulation in Fowler’s Toads: L. Fairchild .................................................. 950
 Inferotemporal Neurons Distinguish and Retain Behaviorally Relevant Features of Visual Stimuli: J. M. Fuster and J. P. Jervey ...................... 952
Peripherally Administered Reduced Pterins Do Enter the Brain: G. Kapatos and S. Kaufman .................................................. 955
Synaptic Excitation May Activate a Calcium-Dependent Potassium Conductance in Hippocampal Pyramidal Cells: R. A. Nicoll and B. E. Alger .................. 957
Rapid Forgetting of a Spatial Habit in Rats with Hippocampal Lesions: R. Thompson ................................ 959
Amino Acid Analyzer; Solvent Recovery Still; Fraction Collector; Liquid Chromatography Detector; Fume Hood; Identification of Enteric Bacteria; Ergometers for Muscle Physiology; Evaporators; Literature ...... 961

HILLSLOPE IN JAWBONE CANYON, WESTERN MOJAVE DESERT, CALIFORNIA, HAS BEEN SEVERELY DISTURBED BY OFF-ROAD VEHICLE USE. MODIFICATION OF SURFACE AND SUB-SURFACE SOIL PROPERTIES HAS RESULTED IN CONSPICUOUS ACCELERATED EROSION ON THE 280-METER-LONG SLOPE. SEE PAGE 915. [Howard Wilshire, U.S. Geological Survey, Menlo Park, California]
Editor's Summary