LETTERS


EDITORIAL

Policy for Ocean Resource Development: W. S. Gaither

ARTICLES

The Status of the Gene Map of the Human Chromosomes: V. A. McKusick and F. H. Ruddle

NEWS AND COMMENT

Carter's New Plutonium Policy: Maybe Less Than Meets the Eye
Particle Beams as ABM Weapons: General and Physicists Differ
Soil Erosion: The Problem Persists Despite the Billions Spent on It
Science Adviser Press: First Hints of How He Is Doing

RESEARCH NEWS

Malaria: Resurgence in Research Brightens Prospects
Animal Viruses: Probes of Cell Function

BOOK REVIEWS

Herbicides, reviewed by A. W. Galston; The Nervous System, J. G. Hildebrand; Marine Sediment Transport and Environmental Management, R. H. Meade; Microtubules and Microtubule Inhibitors, J. B. Olmsted; Books Received and Book Order Service

REPORTS

Visual Observations of the Sea Floor Subduction Line in the Middle-America Trench: B. C. Heezen and M. Rawson
Laser Interferometer Measurement of Changes in Crayfish Axon Diameter Concurrent with Action Potential: B. C. Hill et al. .................................................. 426
Elemental Sulfur: Accumulation in Different Species of Fungi: R. Pezet and V. Pont .................. 428
Cucumber Mosaic Virus Associated RNA 5: Causal Agent for Tomato Necrosis: 
J. M. Kaper and H. E. Waterworth ............................................................ 429
A Luminous Bacterium That Emits Yellow Light: E. G. Ruby and K. H. Nealson ....... 432
Chemotaxis of Rhizobium spp. to a Glycoprotein Produced by Birdsfoot Trefoil Roots: W. W. Curtier and G. A. Strobel .............................................. 434
Incompatibility on Brassica Stigmas Is Overcome by Treating Pollen with Cycloheximide: T. E. Ferrari and D. H. Wallace .................................................. 436
In vitro Growth of Imaginal Disks from Drosophila melanogaster: K. T. Davis and 
A. Shearn ........................................................................................................ 438
Tris Buffer Attenuates Acetylcholine Responses in Aplysia Neurons: W. A. Wilson, 
M. T. Clark, T. C. Pellmar ........................................................................... 440
Design of Specific Inhibitors of Angiotensin-Converting Enzyme: New Class of 
Orally Active Antihypertensive Agents: M. A. Ondetti, B. Rubin, 
D. W. Cushman ................................................................................................ 441
Major Innervation of Newborn Rat Cortex by Monoaminergic Neurons: J. T. Coyle and 
M. E. Molliver ................................................................................................... 444
Trigeminal Substrates of Intracranial Self-Stimulation in the Brainstem: 
D. van der Kooy and A. G. Phillips .................................................................. 447
Assortative Mating by Unwed Biological Parents of Adopted Children: R. Plomin, 
J. C. DeFries, M. K. Roberts ........................................................................ 449
Vibrotactile Pattern Perception: Extraordinary Observers: J. C. Craig ......................... 450
Monosodium Glutamate Administration to the Newborn Reduces Reproductive 
Ability in Female and Male Mice: W. J. Pizzit, J. E. Barnhart, D. J. Fanslow ...... 452
Chromatic Organization of Primate Cones: R. E. Marc and H. G. Sperling ................. 454

PRODUCTS AND MATERIALS

Glucose, Blood Urea Nitrogen, Creatinine Analyzer; Bench-Top Centrifuge; 
Catecholamine Analyzer; Blood Lead Analyzer; Gamma Counter; Synthetic 
Human Calcitonin; Literature ............................................................................. 458

COVER

Tomato plant afflicted with a lethal necrotic disease, which is probably the same as that which (in 1972) annihilated the field tomato crop in the French Alsace. Causal agent is a small RNA encapsidated within cucumber mosaic virus, dependent for its replication on, but not part of, the viral genome. See page 429. [J. M. Kaper, Plant Protection Institute, Agricultural Research Service, Department of Agriculture, Beltsville, Maryland]