LETTERS


EDITORIAL

Support for Scientific Journals

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Prehistoric Irrigation Systems in the Salt River Valley, Arizona: W. B. Masse

NEWS AND COMMENT

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Human-Animal Relationship Under Scrutiny
Reagan's Plan for Nuclear Power
No Boost in Sight for Science Budgets
Germplasm Resources Are Losing Ground
Gore Investigates Radiation Clinic
Briefing: Arms Control Teach-ins Planned by Scientists; NIOSH Move Is Postponed; French Discuss Reviving 1968 University Reforms; Senate Gives Blessing to Baby Bell

RESEARCH NEWS

Evolutionary History Written in Globin Genes
Whither the Shoreline?

BOOK REVIEWS

From ENIAC to UNIVAC, reviewed by P. E. Ceruzzi; History of Programming Languages, B. Randell; Basic Structure and Evolution of Vertebrates,
Mechanisms of Nitrogen Dioxide Reactions: Initiation of Lipid Peroxidation and the Production of Nitrous Acid: W. A. Pryor and J. W. Lightsey


Epifluorescence and Video Analysis of Vacuole Motility and Development in Stomatal Cells of Allium: B. A. Palevitz and D. J. O'Kane

Complete Nucleotide Sequence and Organization of the Moloney Murine Sarcoma Virus Genome: E. P. Reddy, M. J. Smith, S. A. Aaronson

An Efferent Copy Which Is Modified by Reafferent Input: C. C. Bell

A New Laser Scanning System for Measuring Action Potential Propagation in the Heart: S. Dillon and M. Morad

Blood-Brain Glucose Transfer: Repression in Chronic Hyperglycemia: A. Gjedde and C. Crone

Voltage Clamp Studies in Macrophages from Mouse Spleen Cultures: E. K. Gallin

Interaction Between the Antibiotic Trichothecenes and the Higher Plant Baccharis megapoticamica: B. B. Jarvis et al.

Direct Electrical Connections Between Transient Amacrine Cells in the Catfish Retina: K. I. Naka and B. N. Christensen

Vibratory Communication Through Living Plants by a Tropical Wandering Spider: J. S. Rovner and F. G. Barth

Choline Stimulates Nicotinic Receptors on Adrenal Medullary Chromaffin Cells to Induce Catecholamine Secretion: R. W. Holz and R. A. Senter

Multiple Opiate Receptors: Alcohol Selectively Inhibits Binding to Delta Receptors: J. M. Hiller, L. M. Angel, E. J. Simon

Brain Pyruvate Dehydrogenase: Phosphorylation and Enzyme Activity Altered by a Training Experience: D. G. Morgan and A. Routtenberg


**PRODUCTS AND MATERIALS**

Waveform Generator; Storage for Hazardous Chemicals; Sample Extraction; Low-Temperature Diffractometer Sample Chamber; Acoustic Microscope; Mouse Hybridoma Adjunct Reagents; Literature

**COVER**

Oblique aerial photograph of a Louisiana salt marsh dominated by smooth cordgrass, *Spartina alterniflora*. In the marsh interior, *Spartina* dieback, characterized by sparse vegetation and open water bodies, is evident. Ecophysiological studies show that roots of highly productive streamside *Spartina* (adjacent to streambanks) respire aerobically, while that of the inland and dieback sites respire anaerobically. See page 439. [R. Boyd, Louisiana State University, Baton Rouge, Louisiana 70803]
Editor's Summary

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