LETTERS


EDITORIAL

“Science Is Sciencing”: N. L. Gonzalez

ARTICLES

Ultraviolet Spectroscopy and the Composition of Cometary Ice: P. D. Feldman


Obsidian Dating and East African Archeology: J. W. Michels, I. S. T. Tsong, C. M. Nelson

NEWS AND COMMENT

Missouri’s Costly Dioxin Lesson

Flaws Found in Popular Code

Briefing: Large Volkswagens in the Western Sky; Britain to Study Health Effects of Nuclear Tests; FDA Assails Safety of Depo-Provera; Schweiker Quits HHS, Heckler Named to Post

Drug Firm and UC Settle Interferon Suit

RESEARCH NEWS

Mammoth Lakes Quiet but Concern Persists

The New Inflationary Universe

Is Tyrosine the Key to Growth Control?

BOOK REVIEWS

Hailstorms of the Central High Plains, reviewed by W. F. Hitschfeld
Atmosphere-Ocean Dynamics, J. R. Holton; Death Is a Social Disease, J. M. Eyler; Crusaders for Fitness, R. M. Morantz; Books Received .......................... 379

REPORTS

Hardened Subtidal Stromatolites, Bahamas: J. J. Dravis ................................. 385
Climatic Fluctuations Due to Deep Ocean Circulation: R. G. Watts and
M. E. Hayden .................................................. 387
Biological Control of the Removal of Abiogenic Particles from the Surface Ocean:
W. G. Deuser et al. ............................................. 388
Lizard Tail Autotomy: Function and Energetics of Postautotomy Tail Movement
in Scincella lateralis: B. E. Dial and L. C. Fitzpatrick ................................. 391
A Bean α-Amylase Inhibitor Formulation (Starch Blocker) Is Ineffective in Man:
G. L. Carlson et al. ............................................... 393
Chromosome Localization of Highly Repetitive Human DNA's and Amplified
Ribosomal DNA with Restriction Enzymes: D. A. Miller, Y.-C. Choi,
O. J. Miller ........................................................... 395
Differential Classical Conditioning of a Defensive Withdrawal Reflex in Aplysia
A Cellular Mechanism of Classical Conditioning in Aplysia: Activity-Dependent
Amplification of Presynaptic Facilitation: R. D. Hawkins et al. ....................... 400
Associative Conditioning of Single Sensory Neurons Suggests a Cellular
Mechanism for Learning: E. T. Walters and J. H. Byrne ............................... 405
Methyl 4,6-Dichloro-4,6-Dideoxy-α-D-Galactopyranoside: An Inhibitor of Sweet
Taste Responses in Gerbils: W. Jakinovich, Jr. ........................................... 408
Net Primary Productivity in Coral Reef Sponges: C. R. Wilkinson ...................... 410
Taste Flashes: Reaction Times, Intensity, and Quality: S. T. Kelling and
B. P. Halpern ...................................................... 412
A Benzodiazepine Receptor Antagonist Decreases Sleep and Reverses the
Hypnotic Actions of Flurazepam: W. B. Mendelson et al. ................................. 414
Nigral Transplants Reinnervating the Dopamine-Depleted Neostriatum Can
Sustain Intracranial Self-Stimulation: P. J. Fray et al. .................................. 416
Recruitment and Population Dynamics of a Coral Reef Fish: B. C. Victor .............. 419

COVER

Tail autotomy sequence between a snake predator (Lampropeltis triangulum) and its lizard prey (Scincella lateralis). Intravertebral autotomy occurs in these lizard species that possess cartilaginous fracture planes within their caudal vertebrae. Autotomized tails may exhibit rapid, energetically expensive muscle contractions for several minutes after autotomy that attract a predator's attention and delay its ingestion of the autotomized tail. See page 391. [Benjamin E. Dial, Department of Biology, Texas A&M University, College Station 77843]