LETTERS


EDITORIAL

Industry’s Other Contribution to Education: F. Basolo and E. Wasserman

ARTICLES

Intercalated Clay Catalysts: T. J. Pinnavaia
Behavioral Phylogenies and the Direction of Evolution: L. V. Giddings and A. R. Templeton
The Nature of Technological Hazard: C. Hohenemser, R. W. Kates, P. Slovic

NEWS AND COMMENT

Satellite Accident May Delay Shuttle Flights
Prescription Drug Ads Put FDA on the Spot
Briefing: Opposition Sends OMB Back to Drawing Board; Animal Welfare and Fetal Research in Bill on NIH; CDC Chief to Step Down
Texas Uses Oil to Fuel Research
Accelerating Research at Texas A & M
Scientists Settle Cell Line Dispute

RESEARCH NEWS

Synthesizing the Opioid Peptides
Are the Ocean’s Deserts Blooming?

BOOK REVIEWS

Energy and American Values, reviewed by L. Winner; Agricultural Research Policy, G. Ranis; Molecular Approaches to Neurobiology, G. S. Omenn; The Eukaryotic Ribosome, R. A. Zimmermann; Books Received
REPORTS

Origin of Whales in Epicontinental Remnant Seas: New Evidence from the Early Eocene of Pakistan: P. D. Gingerich et al. .................................................. 403
Interstellar Carbon in Meteorites: P. K. Swart et al. ........................................... 406
Helium on Venus: Implications for Uranium and Thorium: M. J. Prather and M. B. McElroy ............................................................. 410
Desickling of Sickled Erythrocytes by Pulsed Radio-Frequency Field: S. Takashima and T. Asakura ......................................................... 411
Female Moorhens Compete for Small Fat Males: M. Petrie .................................. 413
Neutrophil Pseudoplatelets: Their Discrimination by Myeloperoxidase Demonstration: J. S. Hanker and B. L. Giannarara ........................................ 415
Methadone Conformation and Opioid Activity: W. L. Duax et al. ......................... 417
Direct Respiration of Lipids During Heat Production in the Inflorescence of Philodendron selloum: D. B. Walker et al. ........................................... 419
Primary Murine Bone Marrow Cultures Support Continuous Growth of Infectious Human Trypanosomes: A. E. Balber .............................................. 421
Serum Ferritin as a Predictor of Host Response to Hepatitis B Virus Infection: E. D. Lustbader, H.-W. L. Hann, B. S. Blumberg ......................... 423
The Radicals in Cigarette Tar: Their Nature and Suggested Physiological Implications: W. A. Pryor et al. ......................................................... 425
Response of Agronomic and Forest Species to Elevated Atmospheric Carbon Dioxide: H. H. Rogers, J. F. Thomas, G. E. Bingham ........................... 428
Psychological Stress Induces Sodium and Fluid Retention in Men at High Risk for Hypertension: K. C. Light et al. ....................................................... 429
Conditioned Cues Elicit Feeding in Sated Rats: A Role for Learning in Meal Initiation: H. P. Weingarten ................................................................. 431
Behavior of Antarctic Krill, Euphausia superba: Chemoreception, Feeding, Schooling, and Molting: W. H. Hammer et al. ........................................ 433
Contiguity to Males in Utero Affects Avoidance Responding in Adult Female Mice: H. Hauser and R. Gandelman ................................................. 437

COVER

Artist’s reconstruction of the oldest and most primitive whale (Pakicetus inachus) entering an early Eocene epicontinental sea to feed on abundant herrings and other fishes. The skull of Pakicetus, recently discovered in Pakistan, is little modified for hearing under water, and all remains found to date are in fluvial red beds associated with land mammals. Pakicetus provides the first direct evidence of an amphibious stage in the evolutionary transition of whales from land to sea. See page 403. [Watercolor by Karen Kitz, University of Michigan; reconstruction of postcranial skeleton is entirely hypothetical]