LETTERS


EDITORIAL

Energy and Chemicals from Trees

ARTICLES


Pollen-Stigma Interaction and Cross-Incompatibility in the Grasses: J. Heslop-Harrison

Tax Policy and Innovation: E. Mansfield

NEWS AND COMMENT

A Fatal Flaw in the Concept of Space War

EPA May Allow More Lead in Gasoline

Biotech Firm Lays Off 135

Watt and the Wilderness

Briefing: Keeping the Door Open to Membership in IIASA; Creationist Bill Fails in Maryland; Looking a Gift Computer in the Mouth at NSF; Hearings Planned for Classification Order

RESEARCH NEWS

The Leukotrienes in Allergy and Inflammation

New Theory of Hormones Proposed

BOOK REVIEWS

The Development of Darwin's Theory, reviewed by P. J. Bowler; Charles Darwin, M. J. Kottler; Free Oscillations of the Earth, F. Gilbert; The Biology of the Turbellaria, R. Kenk; Spaceborne Synthetic Aperture Radar for Oceanography, R. K. Raney; Books Received
REPORTS

Recent Volcanic Activity at Glacier Peak: J. E. Beget ........................................ 1389
Kinetics of Delignification: A Molecular Approach: J. F. Yan ................................. 1390
Dating of a Fault by Electron Spin Resonance on Intrafault Materials:
M. Ikeya, T. Miki, K. Tanaka .................................................................................. 1392
α-Adrenergocceptor–Mediated Hyperpolarization of Locus Coeruleus Neurons:
Oxytocin Receptors and Human Parturition: A Dual Role for Oxytocin in the
Initiation of Labor: A.-R. Fuchs et al. ................................................................. 1396
Rapid Electronic Autoradiography of Labeled Macromolecules on Two-
Dimensional Gels: J. B. Davidson and A. L. Case ............................................ 1398
Human Liver MAO-A and MAO-B Separated by Immunoaffinity Chromatography
with MAO-B–Specific Monoclonal Antibody: R. M. Denney et al. ................. 1400
Brain Target Sites for 1,25-Dihydroxyvitamin D3: W. E. Stumpf et al. .............. 1403
Intraspecific Vertical Stratification as a Mate-Finding Mechanism in Tropical
Cockroaches: C. Schal ......................................................................................... 1405
Suprachiasmatic Stimulation Phase Shifts Rodent Circadian Rhythms:
B. Rusak and G. Groos ....................................................................................... 1407
Accommodative Defocus Does Not Limit Development of Acuity in Infant
Macaca nemestrina Monkeys: H. Howland, R. G. Boothe, L. Krope .................. 1409
Long-Term Synaptic Potentiation in the Superior Cervical Ganglion:
T. H. Brown and D. A. McAfee ........................................................................... 1411
Onset and Offset of Brain Events as Indices of Mental Chronometry:
B. Renault et al. .................................................................................................... 1413
Dietary Restriction in Mice Beginning at 1 Year of Age: Effect on Life-Span
and Spontaneous Cancer Incidence: R. Weindruch and R. L. Walford .......... 1415
Alterations in Precision of the Crossed Retinotectal Projection During Chick
Development: S. C. McLoon .............................................................................. 1418
Peptide and Steroid Regulation of Muscle Degeneration in an Insect:
L. M. Schwartz and J. W. Truman ...................................................................... 1420
Technical Comments: Jumping Chickens: Relevance to Hazard in Humans:
M. L. Leng; L. J. Rogers and C. A. Sanderson .................................................. 1421

PRODUCTS AND MATERIALS

Personal Computer; Cell Culture Chamber; Refrigerators; Sample Preparation;
Human T Cell Growth Factor; Infrared Spectrometer; Literature ....................... 1424

COVER

Representatives of families of land mammals that participated in the Great
American Faunal Interchange. Animals shown in North America migrated
northward from South America (and vice versa) after the appearance of the
Panamanian land bridge about a million years ago. See page 1351 [Marlene Hill
Werner, Field Museum of Natural History, Chicago, Illinois 60605]