LETTERS

EDITORIAL
Engineering: Lessons for Medical Schools: G. S. Omenn .................................................. 1461

ARTICLES
The Columbia River Basalts: P. R. Hooper ................................................................. 1463
Variation of Influenza A, B, and C Viruses: P. Palese and J. F. Young .................................. 1468
American Medicine's Golden Age: What Happened to It?: J. C. Burnham .................................. 1474

NEWS AND COMMENT
U.S. Readies for Confrontation on Sea Law .................................................. 1480
Clinch River Hits New Snag ........................................................................ 1481
NOAA Buffeted by Budget Storms .................................................. 1482
Radwaste Dump WIPPs Up a Controversy .................................................. 1483

Briefing: A Plan to Give an Apple to Every U.S. School; Potassium Iodide and Nuclear Accidents; NASA Asks to Review Papers Before Publication .................................................. 1484
News and Comment Wins Polk Prize ........................................................................ 1486
Water Buffalo: Neglected, Misunderstood .................................................. 1487

RESEARCH NEWS
Marijuana "Justifies Serious Concern" .................................................. 1488
Meeting Highlights: New Ocean Eddies Found Off California; Chemical Analysis Traces the Sea's Past; African Lakes as Alternative Oceans .................................................. 1490
Magnetic Navigation an Attractive Possibility ........................................................................ 1492

BOOK REVIEWS
The Psychology of Literacy, reviewed by B. Rogoff; Seismic Waves and Sources, K. A. Phinney; ACTH and LPH in Health and Disease, J. L. Roberts; The Future of Antibiotherapy and Antibiotic Research, J. A. Washington II; Adhesion and Microorganism Pathogenicity, M. M. Fletcher; Books Received .................................................. 1494
Influence of Land-Surface Evapotranspiration on the Earth's Climate:
J. Shukla and Y. Mintz .......................................................... 1498
Mass Extinctions in the Marine Fossil Record: D. M. Raup and
J. J. Sepkoski, Jr. ................................................................. 1501
Lumber Spill in Central California Waters: Implications for Oil Spills and Sea
Otters: G. R. VanBlaricom and R. J. Jameson ......................... 1503
Methylation of Tin by Estuarine Microorganisms: L. E. Hallas,
J. C. Means, J. J. Cooney ....................................................... 1505
Inactivation of a Diol Epoxide by Dihydrodiol Dehydrogenase but Not by Two
Epoxide Hydrolases: H. R. Glatt et al. ........................................ 1507
Convergent and Alternative Designs in the Digital Adhesive Pads of Scincid
Lizards: E. E. Williams and J. A. Peterson .............................. 1509
Tumor Imaging with Radioactive Metal Chelates Conjugated to Monoclonal
Antibodies: D. A. Scheinberg, M. Strand, O. A. Gansow .............. 1511
Congenital Malformations Induced by Laetrile: C. C. Willhite ........ 1513
Rats Self-Administer Nonrewarding Brain Stimulation to Ameliorate Aversion:
K. D. Carr and E. E. Coons ...................................................... 1516
Obesity and Adipocyte Abnormalities in Offspring of Rats Undernourished
During Pregnancy: A. P. Jones and M. I. Friedman .................. 1518
Opioid-Like Analgesia in Defeated Mice: K. A. Miczek, M. L. Thompson,
L. Shuster ............................................................................. 1520
Opiates and Pain Pathways: Demonstration of Enkephalin Synapses on Dorsal
Horn Projection Neurons: M. A. Ruda ........................................ 1523
The Origin of Man: A Chromosomal Pictorial Legacy: J. J. Yunis and
O. Prakash .......................................................................... 1525
Corticosterone: A Critical Factor in an Opioid Form of Stress-Induced
Analgesia: A. J. MacLennan et al. ............................................. 1530
Widespread Periodic Intrinsic Connections in the Tree Shrew Visual Cortex:
K. S. Rockland and J. S. Lund .................................................. 1532
Behaviorally Conditioned Immunosuppression and Murine Systemic Lupus
Erythematosus: R. Ader and N. Cohen ....................................... 1534
Endogenous Opiates and Energy Balance: A. Mandenoff et al. ...... 1536
Chromatic Valence Curves: Alternative Interpretation Derived by the Direct
Matching Method: M. Ayama and M. Ikeda .............................. 1538

Phase contrast photomicrograph of dorsal horn thalamic projection neuron
surrounded by immunocytochemically labeled enkephalinergic axonal end-
ings. The granular, retrogradely transported horseradish peroxidase is dis-
spersed in the cell's cytoplasm. The presence of enkephalinergic synapses
on thalamic projection neurons suggests that opiate modulation of the beha-
vioral response to noxious stimulation occurs directly on the projection
neurons (1-micrometer plastic section, counterstained with toluidine blue;
about ×3700). See page 1523. [M. A. Ruda, National Institutes of Health,
Bethesda, Maryland 20205]
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/215/4539.citation

**Permissions**  Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl

---

*Science* (print ISSN 0036-8075; online ISSN 1095-9203) is published weekly, except the last week in December, by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. Copyright 2016 by the American Association for the Advancement of Science; all rights reserved. The title *Science* is a registered trademark of AAAS.