This Week in Science ................................................................. 1021

LETTERS
Fusion Program: M. Lloyd; Medicinal Plants: J. A. Duke; M. F. Balandrin and J. A. Kloc; U.S. Oil Consumption: C. Komanoff .... 1036

EDITORIAL
Corporate Classrooms ............................................................... 1043

ARTICLES
Research with High-Power Short-Wavelength Lasers: J. F. Holzrichter, E. M. Campbell, J. D. Lindl, E. Storm ................................. 1045
Defining Lipid Transport Pathways in Animal Cells: R. E. Pagano and R. G. Sleight ................................................................. 1051

NEWS AND COMMENT
“Right-to-Life” Scores New Victory at AID .................................... 1069
Contraception Research Lagging .................................................. 1069
Weapons Labs Influence Test Ban Debate ....................................... 1067
White House Remarks Worry Nuclear Weapons Designers ......... 1068
Briefing: NRC Sees Uncertainties in Reactor Accident Studies; EPA Finds Acid Lakes from Maine to Florida; Scientists Seeking “Spy Dust” in Moscow; Guilty Plea Puts Oraflex Case to Rest ........................................ 1070

RESEARCH NEWS
Hawaiian Drosophila: Young Islands, Old Flies ................................ 1072
Reverse Transcriptase in Introns .................................................... 1073
A Spatially Resolved Surface Spectroscopy .................................... 1074
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

BOOK REVIEWS

Revolution in Science, reviewed by C. C. Gillispie; Developmental Biology, V. D. Vacquier; Functional Vertebrate Morphology, R. J. Raikow; Cooperativity Theory in Biochemistry, M. T. Record, Jr.; Books Received...

REPORTS

Seismic-Reflection Signature of Cretaceous Continental Breakup on the Wilkes Land Margin, Antarctica: S. L. Eittreim, M. A. Hampton, J. R. Childs

Episodic Rifting of Phanerozoic Rocks in the Victoria Land Basin, Western Ross Sea, Antarctica: A. K. Cooper and F. J. Davey

Attractive Forces Between Uncharged Hydrophobic Surfaces: Direct Measurements in Aqueous Solution: R. M. Pashley, P. M. McGuiggin, B. W. Ninham, D. F. Evans

Antigenic Variation and Resistance to Neutralization in Poliovirus Type 1: D. C. Diamond et al.

Expression in Brain of a Messenger RNA Encoding a Novel Neuropeptide Homologous to Calcitonin Gene–Related Peptide: S. G. Amara et al.

Immunohistochemical Localization in the Rat Brain of the Precursor for Thyrotropin-Releasing Hormone: I. M. D. Jackson, P. Wu, R. M. Lechan


Contribution of Promoter to Tissue-Specific Expression of the Mouse Immunoglobulin Kappa Gene: T. V. Gopal, T. Shimada, A. W. Baur, A. W. Niemhuis

Mutation to Herbicide Resistance Maps Within the psbA Gene of Anacystis nidulans R2: S. S. Golden and R. Haselkorn

Responsiveness and Receptive Field Size of Carp Horizontal Cells Are Reduced by Prolonged Darkness and Dopamine: S. C. Mangel and J. E. Dowling


PRODUCTS AND MATERIALS

Scanning Electron Microscope; Monoclonal Antibodies for Study of Immune System; Supercomputer; Electrophoresis Cells; Pixel-for-Pixel Screen Image Plots; Literature

COVER

(Top, left) A 10-terawatt, 1.05-micrometer infrared laser beam from the Novette laser (red is false color from a black-and-white negative). (Bottom, right) A 6-terawatt, 0.53-micrometer beam converted from the Novette laser beam by a “mosaic” array of potassium dihydrogen phosphate harmonic crystals (green is false color from a black-and-white negative). See page 1045. [R. Speck and K. Mans, Lawrence Livermore National Laboratory, Livermore, California 94550]
Science 229 (4718), 1021-1117.

Use of this article is subject to the Terms of Service

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title Science is a registered trademark of AAAS.