NEWS

Conflict Marks Crime Conference 1808
French Budget: Research Given an ‘Apparent Increase’ 1809
Democrats Urge Clinton to Stand Up for R&D Programs 1810
Commission Proposes New Definition of Misconduct 1811
International Experts Help Probe Haiti’s Bloody Past 1812
Tracing Croatia’s ‘Disappeared’ 1812
Mass Migration Plan for Neutrinos 1813
Chamblin Builds Institute With U.S. Funds and Eye for Detail 1814
Riding the Waves of Molecular Biology 1815
Butterfly Biomechanics: Wing Scales May Help Beat the Heat 1816
Another Blow Weakens EMF-Cancer Link 1816

ARTICLE

From Molecular Diversity to Catalysis: Lessons from the Immune System 1835
P. G. Schultz and R. A. Lerner

DEPARTMENTS

THIS WEEK IN SCIENCE 1797
EDITORIAL 1799
Science in the Stationary Phase A. Kornberg

LETTERS 1801
Multiple-Use Physics Facilities: J. C. Browne and R. Pynn; J. M. Carpenter; L. Rosen • The Endangered Species Act: P. F. Torrence • Garlic and Mosquitoes: F. Crowe • “Not-Even-a-Draft”: R. L. Park; Editors • Pioneering Work: W. Fiers; J. C. Venter

SCIENCESCOPE 1807

BOARD OF REVIEWING EDITORS

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
Alan Bernsstein
David E. Bloom
Piet Borst
Henry R. Bourne
Michael S. Brown
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
David Clapham
Adrienne E. Clarke
John M. Coffin
F. Fleming Crim
Paul J. Crutzen
James E. Dahlberg
Robert Desimone
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
Klaus Friedrich
Roger J. F. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Peter Gruss
Ira Herskowitz
Tomas Hockfelt
Susan D. Iverson
Eric F. Johnson
Stephen M. Koolen
Michael LaBarbera
Nicole Le Douarin
Charles S. Levinz
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Reinhard Lührmann
Diane Mathes
Anthony R. Means
Shigetada Nakanishi
Kim Nasmyth
Roger A. Nicoll
Staffan Normark
Stuart L. Pines
Richard P. Usdin
V. Q. Walsh
Ralph S. Weiss
Martin Raff
V. Ramanathan
Douglas C. Rees
T. M. Rice
David G. Rubie
Erkki Ruoslahti
Gottfried Schatz
Jouel Schell
Ronald H. Schwartz
Terrence J. Sejnowski
Elliott Solomon
Thomas A. Steitz
Michael P. Snyder
Robert T. N. Tjian

Emil R. Unanue
Georges J. Vermay
Bart Vogelstein
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Propagating acoustic strain waves depicted by magnetic resonance imaging (MRI). The dual-source interference pattern arose from 500-hertz mechanical shear waves applied to a tissue-simulating gel at two points (54 millimeters apart, at left). The MRI technique used can quantitatively depict mechanical waves with amplitudes on the order of hundreds of nanometers and could lead to the development of a medical imaging modality that emulates the clinical technique of palpation. See page 1854. [Image: Richard L. Ehman]

RESEARCH ARTICLE

Hemoglobin Allostery: Resonance Raman Spectroscopy of Kinetic Intermediates
V. Jayaraman, K. R. Rodgers, I. Mukerji, T. G. Spiro

Interaction of Tyrosine-Based Sorting Signals with Clathrin-Associated Proteins

A Specialized Pathway Affecting Virulence Glycoconjugates of Leishmania
A. Descoteaux, Y. Luo, S. J. Turco, S. M. Beverley

Reports

Understanding C–H Bond Oxidations: H- and H⁺ Transfer in the Oxidation of Toluene by Permanganate
K. A. Gardner and J. M. Mayer

Global Distribution of Persistent Organochlorine Compounds
S. L. Simonich and R. A. Hites

Magnetic Resonance Elastography by Direct Visualization of Propagating Acoustic Strain Waves
R. Muthupillai, D. J. Lomas, P. J. Rossman, J. F. Greenleaf, A. Mandauc, R. L. Ehman

Anisotropy and Spiral Organizing Centers in Patterned Excitable Media
O. Steinbock, P. Kettunen, K. Showalter

Replicator Neural Networks for Universal Optimal Source Coding
R. Hecht-Nielsen

Circadian Oscillations of Cytosolic Chloroplastic Free Calcium in Plants

Modulation of Transcription Factor Ets-1 DNA Binding: DNA-Induced Unfolding of an α Helix
J. M. Petersen, J. J. Skalicky, L. W. Donaldson, L. P. McIntosh, T. Alber, B. J. Graves

TECHNICAL COMMENTS

Honeybees and Magnetoreception
H. Nichol and M. Locke; J. L. Kirschvink and M. M. Walker; M. H. Nesson; C.-Y. Hsu and C.-W. Li

AAAS Board of Directors

Francisco J. Ayala, Raising President, Chairman
Rita R. Colwell, President
Jane Lubchenco, President-elect
William A. Lester Jr., Treasurer
Simon A. Levin, Executive Officer

Change of address: Allow 6 weeks. giving new and old addresses and 11-digit account number. Postmaster: Send change of address to: Science. P.O. Box 1811, Danbury, CT 06813-1811. Single copy sales: $7.00 per issue prepaid includes surface postage; bulk rates on request. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center. Inc. Translational Reporting Service, provided that $3.00 per article is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification code for Science is 0036-8075.1995 $3.00. Science is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.
Science 269 (5232), 1797-1900.