Drugs from the sea

1324

Cancer Researcher Returns Grant

RESEARCH NEWS

Massive Problem of Missing Dwarfs

Hints of a Language in Junk DNA

New Link Found Between p53 and DNA Repair

1321 & 1376

Shutdown for repairs

1321

UN Readies New Global AIDS Plan

CDC Reorganization Prompts Concern

LIGO's Price Rises as NSF Debates Big-Ticket Items

Court Says No to Copying Articles

Earth Sciences: Job Prospects on Shaky Ground

German Science Policy: Science Loses Its Own Ministry

Latin America: A Personal Technology Transfer Effort in DNA Diagnostics

Baring the Secrets of Asteroid Ida

Pig Transplants Offer Hope in Diabetess

Dropping Cholesterol—Safely

Chemical Prospectors Scour the Seas for Promising Drugs

Step Taken Toward Improved Vectors for Gene Transfer

1326

The Next Steps Toward a Global AIDS Vaccine

W. C. Koff

PERSPECTIVE

Diradicals: Conceptual, Inferential, and Direct Methods for the Study of Chemical Reactions

J. A. Berson

ARTICLES

A Double Mass Extinction at the End of the Paleozoic Era

S. M. Stanley and X. Yang

1340

LANDSLIDE IN SLOW MOTION: Women in Academic Medicine: History Slights Science

GORDON RESEARCH CONFERENCES

SCIENCESCOPE

RANDOM SAMPLES

PRODUCTS & MATERIALS

DEPARTMENTS

THIS WEEK IN SCIENCE

EDITORIAL

LETTERS


1312

1313

1314

1315

1316

1317

1318

1320

1321

1311

1327

1301

1303

1305

1406

1412

1417

1418

Landslide in Slow Motion • Women in Academic Medicine • History Slights Science

1298

SCIENCE • VOL. 266 • 25 NOVEMBER 1994

Board of Reviewing Editors

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Pet Borst
Henry R. Bourne
Michael S. Brown
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
F. Fleming Crim
Paul J. Crutzen
James E. Dahlberg
Robert Desimone
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry K. Fozard
Klaus Friedrich
Theodore H. Geballe
John C. Gerhart
Roger I. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Ira Herskowitz
Eric F. Johnson
Stephan M. Koselyn
Michael LaBarbera
Nicole Le Douarin
Charles S. Levenson III
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Reinhard Lührmann
Diane Mathis
Anthony R. Means
Shigeru Nakanishi
Roger A. Nicoll
Stuart L. Pimm
Yoshinori Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
T. M. Rice
David C. Rubie
Erkki Ruoslahti
Gottfried Schatz
Josef Schell
Ronald H. Schwartz
Terence J. Sejpanski
Ellen Solomon
Thomas A. Steitz
Michael P. Streyer
Robert T. N. Tjian
Emil R. Unanue
Geeat J. Vermeij
Bert Vogelstein
Harold Weintraub
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
The valleys and mountains shown (potential energy surface) describe the femtosecond journey of a chemical reaction: the addition of ethylene or cleavage of cyclobutane. The dynamics describe one of the most fundamental processes in chemistry—the making and breaking of a covalent bond. The transient structures are frozen on the femtosecond time scale, and their existence elucidates the non-concerted nature of the mechanism. See page 1359 and the Perspective on page 1338. [Illustration: S. Pedersen]

Nondestructive Mass Selection of Small van der Waals Clusters
W. Schöllkopf and J. P. Toennies

RESEARCH ARTICLE
Calcium-Calmodulin Modulation of the Olfactory Cyclic Nucleotide-Gated Cation Channel
M. Liu, T.-Y. Chen, B. Ahamed, J. Li, K.-W. Yau

REPORTS
The Central Role of Broken Bond-Bending Constraints in Promoting Glass Formation in the Oxides M. Zhang and P. Boolchand

Nickel Oxide Interstratified α-Zirconium Phosphate, a Composite Exhibiting Ferromagnetic Behavior B. Shpeizer, D. M. Poojary, K. Ahn, C. E. Runyan, Jr., A. Clearfield

The Validity of the “Diradical” Hypothesis: Direct Femtosecond Studies of the Transition-State Structures S. Pedersen, J. L. Herek, A. H. Zewail

Origin of Storm Footprints on the Sea Seen by Synthetic Aperture Radar D. Atlas

Double Flood Basalts and Plume Discontinuity D. Bercovici and J. Mahoney

Activation and Regeneration of Rhodopsin in the Insect Visual Cycle A. Kiselev and S. Subramaniam

Tissue-Specific Targeting of Retroviral Vectors Through Ligand-Receptor Interactions N. Kasahara, A. M. Dozy, Y. W. Kan


Clonal Divergence in Escherichia coli as a Result of Recombination, Not Mutation D. S. Outtman and D. E. Dykhuizen

Catalytic Site Components Common to Both Splicing Steps of a Group II Intron O. Chanfreau and A. Jacquier

Cell Cycle Control by a Complex of the Cyclin HCS26 (PCL1) and the Kinase PHO85 F. H. Espinoza, J. Ogas, I. Herskowitz, D. O. Morgan


Long-Term Behavioral Recovery in Parkinsonian Rats by an HSV Vector Expressing Tyrosine Hydroxylase M. J. During, J. R. Naegele, K. L. O'Malley, A. I. Geller

Binding of Mismatched Microsatellite DNA Sequences by the Human MSH2 Protein R. Fishel, A. Ewel, S. Lee, M. K. Lescoe, J. Griffith

SCIENCE is published weekly by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1994 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $92 ($50 allocated to subscription). Domestic institutional subscription (51 issues): $215. Foreign postage extra. Mexico, Caribbean (surface mail) $50; other countries (air assist delivery) $75. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request, GST #11548 88122. Printed in the U.S.A.

Change of address: allow 6 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send change of address to Science, P.O. Box 2023, Marion, OH 43305-0203. Single copy sales: $6.00 per issue prepaid includes surface postage; Guide to Biotechnology Products and Instruments, $20. 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 (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $0.10 per page is paid directly to CCC, 222 Congress Street, Salem, MA 01970. This identification code for Science is 0036-8075/94 $1.00. Science is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.
Science 266 (5189), 1301-1418.

http://science.sciencemag.org/content/266/5189

http://www.sciencemag.org/help/reprints-and-permissions