NEWS & COMMENT

Klausner Follows Own Advice at NCI 912
Research, Education, and Iron Control 913

Could Defense Accelerator Be a Windfall for Science? 914

Shuttle Mission to Seek Antimatter 915
Physics Meeting Unites the Two Chinas—Briefly 916

RESEARCH NEWS

Missing Alzheimer’s Gene Found 917

New Hominid Crowds the Field 918

HERA Physicists Finally Put Flesh on a Putative Particle 919

Polymer Cells Achieve New Efficiency 920

New Angle for Classic Tale of Respiratory Protein and Oxygen 921

Ancient DNA: The Trials and Tribulations of Cracking the Prehistoric Code 923

PERSPECTIVE

The Mechanism of Biphasic GABA Responses 928

N. Lambert and L. Grover

ARTICLES

Emplacement of Cretaceous-Tertiary Boundary Shocked Quartz from Chixculub Crater 930

W. Alvarez, P. Claeyss, S. W. Kieffer

Resonance Light Scattering: A New Technique for Studying Chromophore Aggregation 935

R. F. Pasternack and P. J. Collings

RESEARCH ARTICLES

Control of Electron Transfer Between the L- and M-Sides of Photosynthetic Reaction Centers 940

B. A. Heller, D. Holten, C. Kirmayer

DEPARTMENTS

EDITORIAL

Degrees of Freedom 903
D. S. Doering

LETTERS


RANDOM SAMPLES

Why Neurons Won’t Regenerate • Antarctic Drillers Strike New Depths • Etruscan Tablet Interpreted • Leaky Beaten by Kenyan Moats • NYU Primate Lab Changes Hands • New Member of Dino Family • Roaring on the Pacific Rim

BOOK REVIEWS

Genetics of Natural Populations, reviewed by J. A. Coyne • Impacts of the Early Cold War on the Formulation of U.S. Science Policy, D. J. Kevles • Vignettes • Books Received

PRODUCTS & MATERIALS

996

Board of Reviewing Editors

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
Alan Bernstein
David E. Bloom
Peter Borst
Henry R. Bourne
Michael S. Brown
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Cho
David Clapham
John M. Coffin
F. Fleming Crim
Paul J. Crutzen
James E. Dahlberg
Robert DeWille
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
David Gabbai
Theodore H. Gaballa
Roger L. M. Glass
Stephen P. Gold
Peter N. Goodfellow
Corey S. Goodman
Ira Herskowitz
Tomas Holkfelt
Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Nicole Le Douarin
Charles S. Levinson
Alexandar Levitkii
Harvey P. Lodish
Richard Losick
Reinhard Lührmann

Diane Mathis
Anthony R. Means
Shigetada Nakashino
Roger A. Nicoll
Stuart L. Pinn
Yoshitaka Pockner
Dennis A. Powers
Ralph S. Quatrano
Martin Raff
V. Ramana

Douglas C. Rees
T. M. Rice
David C. Rubie
Erikku Ruoslahti
Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Terence J. Stemkowski
Eilen Solomon
Thomas A. Steltz

Michael P. Snyder
Robert T. N. Tjian
Emi R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wul
Crystalline Structure of a Conserved Protease That Binds DNA: The Bleomycin Hydrolase, Gal6
L. Joshua-Tor, H. E. Xu, S. A. Johnston, D. C. Rees

A Familial Alzheimer’s Disease Locus on Chromosome 1

 Candidate Gene for the Chromosome 1 Familial Alzheimer’s Disease Locus

Ionic Mechanisms of Neuronal Excitation by Inhibitory GABA_A Receptors
K. J. Staley, B. L. Soldo, W. R. Proctor

Recurrent Excitation in Neocortical Circuits
R. J. Douglas, C. Koch, M. Mahowald, K. A. C. Martin, H. H. Suarez

Object-Centered Direction Selectivity in the Macaque Supplementary Eye Field
C. R. Olson and S. N. Gettnner

Non-Specific DNA Bending and the Specificity of Protein-DNA Interactions
A. Schepartz; D. A. Erie and C. Bustamante

Cover
Diagonally opposed images of carbon monoxide (CO) bound to (upper left) and photodissociated from (lower right) the heme in myoglobin. The orientation of CO was determined with time-resolved polarized infrared spectroscopy. As illustrated schematically, a visible laser pulse (red) photodissociates the CO from the heme and an infrared pulse (gray), arriving 10^-10 seconds later, probes the infrared spectrum of CO. See page 962 and the related News story on page 921. Illustration: M. Lim, T. Jackson, and P. Anfinrud.