NEWS & COMMENT

Leadership Crisis Rocks Academy 1222
NAE Council Chair to Change Hands 1222
Space Science: Fate of Tether Hangs by a Thread 1223
Klausner's Unconventional 'Field Station' in Seattle 1224
Donna Shalala: 'Leaving Footprints' at HHS 1225
Vaccine Drought Spurs NIAID Plan to Improve Industry Ties... ...While Gore Tries a Bully Pulpit 1227
FDA Reform Starts Down the Track 1228

RESEARCH NEWS

Is Hippocampal Cell Death a Myth? 1229
Isotope Switch Toughens Transistors 1230
Dim Corona Foreshadows Storms 1231
GSI Bags Another New Element 1231
Mixing Nanotube Structures to Make a Tiny Switch 1232

An Intriguing New Lead on Huntington's Disease 1233
T Cell Inactivation Linked to Ras Block 1234

PERSPECTIVES

Cool Gas in the Virgo Cluster? 1244
A. C. Fabian

The Whole Lactose Repressor 1245
K. S. Matthews

RESEARCH ARTICLE

Crystal Structure of the Lactose Operon Repressor and Its Complexes with DNA and Inducer 1247
M. Lewis, G. Chang, N. C. Horton, M. A. Kercher, H. C. Pace, M. A. Schumacher, R. G. Brennan, P. Lu

REPORTS

Doping-Induced Change of Superconducting Gap Anisotropy in Bi2Sr2CaCu2O8+δ 1255
R. J. Kelley, C. Quitmann, M. Onellion, H. Berger, P. Almeras, G. Margaritondo

THIS WEEK IN SCIENCE

EDITORIAL

Bureaucrats Save Lives Gerald R. Fink 1209

LETTERS

Lioness Leadership; G. C. Jahn; C. Packer and R. Heinsohr • Treatment of Chronic Lyme Disease; A. C. Steere • Effective U.S. Science Continued; R. Geiger; R. A. Pielke Jr. and R. Byerly Jr. 1216

DEPARTMENTS

RANDOM SAMPLES

1235
Impressive Track Record for Immigrant Scientists • Our New Relation • Scientists Help Craft Gene Testing Law • Investors Sought for AIDS Vaccine Trials • Nobelist Spreads the Wealth • How to Live in Japan • The World's Oldest Flower

BOOK REVIEWS

1240
tRNA, reviewed by R. A. Zimmermann • Cephalopod Neurobiology • The Cortical Neuron, D. Johnston • Books Received • Vignettes

PRODUCTS & MATERIALS

1306
Model Estimations Biased by Truncated
Expansions: Possible Artifacts in Seismic
Tomography
J. Trampert and R. Snieder

Radiation-Induced Diamond Formation
in Uranium-Rich Carbonaceous Materials
T. L. Daulton and M. Ozima

Impact Origin of the Chesapeake Bay
Structure and the Source of the North
American Tektites
C. Koebel, C. W. Poag, W. U. Reimold, D.
Brandt

Biomimetic Templating of Porous
Lamellar Silicas by Vesicular Surfactant
Assemblies
P. T. Tanev and T. J. Pinnavaia

A Distinct G, Step Required to Specify
the Chinese Hamster DHFR Replication
Origin
J.-R. Wu and D. M. Gilbert

Blocked Signal Transduction to the
ERK and JNK Protein Kinases in Aneuric
CD4+ T Cells
W. Li, C. D. Whaley, A. Mondino, D. L. Mueller

Blocked Ras Activation in Aneuric
CD4+ T Cells
P. E. Fields, T. F. Gajewski, F. W. Fitch

Antigen Presentation and T Cell
Development in H2-M-Deficient Mice
W.-P. Fung-Leung, C. D. Surh, M. Liljedahl, J.
Pang, D. Leturcq, P. A. Peterson, S. R. Webb,
L. Karlsson

Enhanced Fidelity of 3TC-Selected
Mutant HIV-1 Reverse Transcriptase
M. A. Wainberg, W. C. Drosopoulos, H.
Salomon, M. Hsu, G. Borkov, M. A. Parniak,
Z. Gu, Q. Song, J. Manne, S. Islam, G.
Castriota, V. R. Prasad

Somatic Mutation of Immunoglobulin
V Genes in Vitro
E. Kallberg, S. Jainandunsing, D. Gray, T.
Leanderson

Role of Lymphotoxin and the Type I
TNF Receptor in the Formation of
Germinal Centers
M. Matsumoto, S. Mariathanan, M. H. Nahm,
F. Baranyay, J. P. Peschon, D. E. Chapping

HIV-1 Langerhans’ Cell Tropism
Associated with Heterosexual Transmission
of HIV
L. E. Soto-Ramirez, B. Renjifo, M. F. McLane,
R. Marlink, C. O’Hara, R. Sutthen, C. West, P.
Vithayasai, V. Vithayasai, C. Apichartpiyakul,
P. Auwerakul, V. Peña Cruz, D.-S. Chui, R.
Osathanonith, K. Mayer, T.-H. Lee, M. Essex

Bidirectional Control of Quantal Size
by Synaptic Activity in the Hippocampus
S. H. R. Olier, R. C. Malenka, R. A. Nicoll

Coral Reefs and Carbon Dioxide
J.-P. Gattuso, M. Frankignoulle, S. V. Smith, J.
Ware, R. Wollast; R. W. Buddemeier; H.
Kayanne

Self-Fertilization, Linkage Disequilibrium,
and Strain in Plasmodium falciparum
M. Tibayrenc and A. Lal; R. E. L. Paul and K.
P. Day

Faunal Evidence and Sterkfontein
Member 2 Foot Bones of Early Hominin
J. K. McKee; P. V. Tobias and R. J. Clarke

More Haemophilus and Mycoplasma
Genes
J. Brosius; K. Robison, W. Gilbert, G. M.
Church; J. C. Venter

Cover

Model of the 93-base pair loop that forms to repress
the transcription of the Escherichia coli lac operon structural
genes. The lac repressor tetramer (violet ribbon)
binds two operators (red), and the catabolite activator
protein (purple ribbon) binds to a separate DNA site (blue).
The lac promoter regions are highlighted in green. See page 1247 and the related Perspective on
page 1245. [Image created with Biosym Insight II]

Board of Directors

Rita R. Colwell
Retiring President, Chairman
Jane Lubchenco
President
Mitrd S. Dresselhaus
President-elect
Sheila Jasanoff
William A. Lester Jr.
Simon A. Levin

Treasurer
Richard S. Nicholson
Executive Officer

AAAS Board of Directors

MARCUS C. LING
Michael J. Novacek
Anna C. Roosevelt
Jean E. Taylor
Nancy S. Wester

SCIENCE (ISSN 0036-8075) is published weekly on Friday, except
the last week in December, by the American Association for the
Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second
class postage (publication No. 484446) paid at Washington, DC, and additional
mailing offices. Copyright © 1996 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): $102 (55 are
allocated to subscription). Domestic institutional subscription (51 issues): $250.25.
Foreign postage extra: Mexico: Caribbean (surface mail) $55; other
countries (air assist delivery) $99. First class, airmail, student, and emeritus rates
are required. Canadian rates with GST available upon request. GST #1254 86122.
Printed in the U.S.A.

1207