POLICY FORUM

Science and the New Administration... 444
J. M. Bishop, M. Kirschner, H. Varmus

NEWS & COMMENT

A Grisly Archive of Key Cancer Data... 448
Widespread Contamination, Widespread Risk

Radiation Risks: Researchers Eager to See Soviet Data... 451

Should Dying Patients Receive Untested Genetic Methods?

Will the Real Journal Please Stand Up?

RESEARCH NEWS

A Continent-Sized Ear on the Cosmos... 454
MERLIN Gets the Hubble Constant in Focus

Computing at the Speed of Light... 456

Alzheimer’s Pathology Begins to Yield Its Secrets... 457


c.---

High hopes for the Very Long Baseline Array... 454

A new angle on transcription: the transition from turns to twists... 510

A Grisly Archive of Key Cancer Data... 448
Widespread Contamination, Widespread Risk

Radiation Risks: Researchers Eager to See Soviet Data... 451

Should Dying Patients Receive Untested Genetic Methods?

Will the Real Journal Please Stand Up?

A Continent-Sized Ear on the Cosmos... 454
MERLIN Gets the Hubble Constant in Focus

Computing at the Speed of Light... 456

Alzheimer’s Pathology Begins to Yield Its Secrets... 457

Aera spp.

AAAS Board of Directors

Leon M. Lederman
Retiring President, Chairman
F. Sherwood Rowland
President
Eloise E. Clark
President-elect
Mary Ellen Avery
Francisco J. Ayala
Robert A. Frosch
Florence P. Haselton
Alan Schriesheim
Jeanne M. Shreeve
Chang Lin Tien
Warren M. Washington
William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

John Abelson
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi

John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
Victor R. Fuchs
Theodore H. Geballe
Margaret J. Gelfer
John G. Gerhart
Roger I. M. Glass

John S. Green
James E. Harris
David L. Melton
Steven R. McKnight
John P. Reilly
Paul G. Ruoslahti
Robert Tjian
Long Knight

Science and the New Administration... 444
J. M. Bishop, M. Kirschner, H. Varmus

NEWS & COMMENT

A Grisly Archive of Key Cancer Data... 448
Widespread Contamination, Widespread Risk

Radiation Risks: Researchers Eager to See Soviet Data... 451

Should Dying Patients Receive Untested Genetic Methods?

Will the Real Journal Please Stand Up?

RESEARCH NEWS

A Continent-Sized Ear on the Cosmos... 454
MERLIN Gets the Hubble Constant in Focus

Computing at the Speed of Light... 456

Alzheimer’s Pathology Begins to Yield Its Secrets... 457

Aera spp.
Leg imaginal disc from a Drosophila early third instar larva, stained to show the sectorial pattern of expression of the wingless (blue) and engraved (brown) genes. During limb development, these genes are expressed in adjacent sectors of the imaginal discs. These sectors provide positional references for a polar coordinate system that functions in the generation of patterns along the proximodistal axis. See page 484 and the Perspective on page 471. [Photograph: J. P. Couso]

RESEARCH

Antibody Catalysis of a Disfavored Chemical Transformation
K. D. Janda, C. G. Shevlin, R. A. Lerner

Transient Turing Structures in a Gradient-Free Closed System
I. Lengyl, S. Kádár, I. R. Epstein

A Cationic Cesium Continuum in Zeolite X
T. Sun, K. Seff, N. H. Heo, V. P. Petranovskii

Late Cenozoic Uplift of Denali and Its Relation to Relative Plate Motion and Fault Morphology
P. G. Fitzgerald, E. Stump, T. F. Redfield

Seismic Structure of the Southern East Pacific Rise
R. S. Detrick, A. J. Harding, G. M. Kent, J. A. Orcutt, J. C. Mutter, P. Buhl

In Situ Stimulation of Aerobic PCB Biodegradation in Hudson River Sediments

Stress Protection of Transgenic Tobacco by Production of the Osmolyte Mannitol
M. C. Tarczynski, R. G. Jensen, H. J. Bochnert

Altered Specificity of DNA-Binding Proteins with Transition Metal Dimerization Domains
B. Cuenoud and A. Schepartz

Release of Excess Amyloid β Protein from a Mutant Amyloid β Protein Precursor
X.-D. Cai, T. E. Golke, S. G. Younkin

Sequence and Genome Organization of a Human Small Round-Structured (Norwalk-Like) Virus
P. R. Lambden, E. O. Caul, C. R. Ashley, I. N. Clarke

Activation of the Sphingomyelin Signaling Pathway in Intact EL4 Cells and in a Cell-Free System by IL-1β
S. Mathias, A. Younes, C.-C. Kan, I. Orlow, C. Joseph, R. N. Kolesnicky

Regulation by Heme of Mitochondrial Protein Transport Through a Conserved Amino Acid Motif
J. T. Lathrop and M. P. Timko

Identification of the SH3 Domain of GAP as an Essential Sequence for Ras-GAP-Mediated Signaling
M. Duchesne, F. Schweighoffer, F. Parker, F. Clerc, Y. Frobert, M. N. Thang, B. Tocqué

Modulation of Anxiety and Neuropeptide Y-Y1 Receptors by Antisense Oligodeoxynucleotides
C. Wahlestedt, E. M. Pich, G. F. Koob, F. Yee, M. Heilig

GABA-Activated Chloride Channels in Secretory Nerve Endings
S. J. Zhang and M. B. Jackson

POLYETHYLENE BAGS AND SOLAR UVR

O. Holm-Hansen and E. W. Helbling; B. B. Prézélin and R. C. Smith

Copyright © 1993 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 © 1993 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): $87.50 (includes subscription). Domestic institutional subscription (51 issues): $205. Foreign postage extra: Mexico, Caribbean (surface mail) $52; other countries (air assist delivery) $92. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #1254-88122. 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 2033, Marion, OH 43305-2033. Single copy sales: $6.00 per issue prepaid includes surface postage; Guide to Biotechnology Products and Instruments, $20.

Indicates accompanying feature

# 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. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1993 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): $87.50 (includes subscription). Domestic institutional subscription (51 issues): $205. Foreign postage extra: Mexico, Caribbean (surface mail) $52; other countries (air assist delivery) $92. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #1254-88122. 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 2033, Marion, OH 43305-2033. Single copy sales: $6.00 per issue prepaid includes surface postage; Guide to Biotechnology Products and Instruments, $20.

Indicates accompanying feature

# 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. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1993 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): $87.50 (includes subscription). Domestic institutional subscription (51 issues): $205. Foreign postage extra: Mexico, Caribbean (surface mail) $52; other countries (air assist delivery) $92. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #1254-88122. 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 2033, Marion, OH 43305-2033. Single copy sales: $6.00 per issue prepaid includes surface postage; Guide to Biotechnology Products and Instruments, $20.

Indicates accompanying feature