NEWS

NASA Rethinks the Space Station 1228
Could These Cut-Rate Stations Be Contenders? Redesign Creates Consternation Abroad

NASA Researchers Eye Mir 1230

Oxford Rebels Protest Women’s Status 1231

Volcanoes May Warm Locally While Cooling Globally 1232

Ear Stones Speak Volumes to Fish Researchers 1233

New Laser Serves Red Light, Straight Up 1234

New Tumor Suppressor Gene Captured 1235

NCAR: Doing Quality Science in a ‘Garage for Planes’

Favoritism Found in ARPA Funding 1237

REPORTS

AIDS Research: The Mood Is Uncertain • Top Questions From the Survey • AIDS Conference in Berlin Offers Plenty of Hidden Gems • Four European Researchers

Slowing the Spread of HIV: Agenda for the 1990s M. H. Merson

Perspectives Apoptosis in AIDS M.-L. Gougeon and L. Montagnier

DEPARTMENTS

THIS WEEK IN SCIENCE 1217

EDITORIAL 1219

AIDS 1993: Unanswered Questions

LETTERS 1221

DNA Fingerprinting: The NRC Report: E. S. Lander

Directed Mutations: J. Cairns; R. E. Lenski and J. E. Mittler • Liver Stem Cells: S. Sell

SCIENCESCOPE 1227

RECORDS & MATERIALS 1363

CONTROLLED DEPOSITION, SOFT LANDING, AND GLASS FORMATION IN NANocluster-Surface Collisions H.-P. Cheng and U. Landman


AAAS Board of Directors

F. Sherwood Rowland
Retiring President, Chairman

Joel E. Clark
President

Francisco J. Ayala
President-elect

Robert A. Frosch
Florence P. Hasekline
William A. Lester, Jr.

Alan Schrieke
Jeanne M. Shreve
Chang-Lin Tien
Warren M. Washington
Nancy S. Wexler

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. Englert
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
Victer R. Fucht
Theodore H. Geballe
Margaret J. Geller
John C. Gerhart
Roger I. M. Glass

Stephen P. Gold
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kossjan
Michael LaBarbera
Charles S. Leavings III
Harvey F. Lodish
Richard Losick
Anthony R. Means

Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Primm
Ira Herskowitz
Eric F. Johnson
Stephen M. Kossjan
Michael LaBarbera
Charles S. Leavings III
Harvey F. Lodish
Richard Losick
Anthony R. Means

Terrence J. Sajnowski
Thomas A. Steitz
Richard F. Thompson
Robert T. N. Tjian
Emil R. Ullers
Kermit Viermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witto
Keith Yamamoto
All of science is driven by unanswered questions, but in AIDS research 10 years after the discovery of the AIDS virus, there are many more questions than answers. In a special section beginning on page 1253, Science offers several different views of the most important questions in the field, from a survey of 150 AIDS investigators to provocative views from leading researchers. The only remaining question is: When will there be answers?

Repression of MHC Class I Gene
Promoter Activity by Two-Exon Tat of HIV
T. K. Howcroft, K. Strehel, M. A. Martin, D. S. Singer

Protection Against Vaginal SIV
Transmission with Microencapsulated Vaccine

High Spontaneous Intrachromosomal Recombination Rates in Ataxia-Telangiectasia
M. S. Meyn

Regulation of the Ets-Related Transcription Factor Elf-1 by Binding to the Retinoblastoma Protein

Inactivation of the Type II Receptor Reveals Two Receptor Pathways for the Diverse TGF-β Activities
R.-H. Chen, R. Ebner, R. Derynck

Human Sos1: A Guanine Nucleotide Exchange Factor for Ras That Binds to GRB2

Cloning of Type I TGF-β Receptor and Its Effect on TGF-β Binding to the Type II Receptor

Cover

A Strategy for Prophylactic Vaccination Against HIV
J. Saik, P. A. Bretsch, P. L. Saik, M. Clerici, G. M. Shearer

Scientific and Social Issues of Human Immuno deficiency Virus Vaccine Development
B. F. Haynes

Present Status and Future Prospects for HIV Therapies
M. I. Johnston and D. F. Hoth

Polycrystalline CVD Diamond Films with High Electrical Mobility
M. A. Plano, M. I. Landstrass, L. S. Pan, S. Han, D. R. Kania, S. McWilliams, J. W. Ager III

Experimental Evidence for a New Iron Phase and Implications for Earth’s Core
S. K. Saxena, G. Shen, P. Lazor

Net Exchange of CO2 in a Mid-Latitude Forest

Identification of the von Hippel-Lindau Disease Tumor Suppressor Gene

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 ($47 allocated to subscription). Domestic institutional subscription (51 issues): $205. Foreign postage extra: Mexico, Caribbean (surface mail) $50; other countries (air assist delivery) $95. 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 43005-2033. 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, 27 Congress Street, Salem, MA 01970. The identification code for Science is 0036-8075/83 $1 + .10. Science is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objectives are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.

1304 Cushioned clusters

Indicates accompanying feature