171 This Week in Science

Editorial

173 Flying into the Future

Letters


ScienceScope

183 Priority-setting without data; the Washington shell game in action; etc.

News & Comment

184 Genome Patent Fight Erupts
186 Edelman: Bye Bye, Rockefeller
187 A Window on Life In The Bronze Age
188 JAMA Gets into an Indian Herbal Jam
189 Leroy Hood to Move North
190 Malaria Parasite Gaining Ground Against Science
191 Space Station, NSF Funds Approved

Research News

194 The SSC: Radical Therapy for Physics
195 CERN's Horserace With the SSC
197 What Makes the San Andreas Tick?
198 Improvements Seen for RU-486 Abortions ■ Feminist Group Dissents on RU-486 Use for Abortion
200 Alcoholism Gene: Coming or Going?
201 Genome Databases

Perspective


Articles

221 Toward Cloning and Mapping the Genome of Drosophila: J. Merriam, M. Ashburner, D. L. Hartt, F. C. Kafatos
226 On the Social Science Contribution to Governmental Decision-Making: E. Chelmsky
231 Reactivity of Organic Compounds in Hot Water: Geochemical and Technological Implications: M. Siskin and A. R. Katritzky

THE GENOME MAPS 1991

Pullout chart appearing on pages 247–262.

Plus special clip-out guide to genome data bases on pages 201–207.

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 © 1991 by the American Association for the Advancement of Science. All rights reserved. Authorization to photocopy material for internal or personal use, or the internal or personal use of specific clients, 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, Massachusetts 01970. The identification code for Science is 0036-8075/83 $1.00. 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.
COVER Model systems are vital for carrying scientists toward their goal of understanding the human genome. This issue presents a wall chart (pages 247 to 262) summarizing progress in mapping the human genome and one of the classic model systems, Drosophila melanogaster. In addition, there is a special news feature on genome databases (pages 201 to 207) as well as articles, reports, and a perspective relating to genome analysis. [Cover illustration by R. J. Kaufman, Charlotte, North Carolina]

Research Article

238 Role of Nucleosomal Cores and Histone H1 in Regulation of Transcription by RNA Polymerase II: P. J. Laybourn and J. T. Kadonaga

Reports

263 A Mante Plume Initiation Model for the Wrangella Flood Basalt and Other Oceanic Plateaus: M. A. Richards, D. L. Jones, R. A. Duncan, D. J. DePaolo
267 The DNA Binding Arm of a Repressor: Critical Contacts from a Flexible Region: N. D. Clarke, L. J. Beamer, H. R. Goldberg, C. Berkower, C. O. Pabo
274 A Retroviral Oncogene, abt, Encoding a Serine-Threonine Kinase Containing an SH2-Like Region: A. Bellacosa, J. R. Testa, S. P. Staal, P. N. Tsichlis
282 Cell Cycle Dependence of Laminar Determination in Developing Neocortex: S. K. McConnell and C. E. Kaznowski
285 Long-Term High-Titer Neutralizing Activity Induced by Octameric Synthetic HIV-1 Antigen: C. Y. Wang, D. J. Looney, M. L. Li, A. M. Walfield, J. Ye, B. House, J. P. Tam, F. Wong-Staal
290 Laser Ablation Studies of the Role of the Drosophila Oocyte Nucleus in Pattern Formation: D. J. Montell, H. Keshishian, A. C. Spradling
293 Suppression of Tumorigenicity in Wilms Tumor by the p15.5-p14 Region of Chromosome 11: S. F. Dowdy, C. L. Fasching, D. Araujo, K.-M. Lai, E. Livanos, B. E. Weissman, E. J. Stanbridge

Meetings

302 Gordon Research Conferences: A. M. Cruckshank ■ Registration Form

Book Reviews

311 Exhibiting Cultures, reviewed by B. Benedict ■ The Lopsided Ape, L. J. Harris ■ Viewing the Earth, K. Hufbauer ■ Physics and the Rise of Scientific Research in Canada, A. E. Moyer ■ Books Received

Products & Materials

318 Monoclonal Antibodies ■ Microbalance ■ Scanning Electron Microscopes ■ DNA Amplification Kit ■ Atmospheric Black Carbon Measurer ■ Scanning Fluorimeter ■ Literature

Board of Directors

Donald N. Langenberg
Retiring President, Chairman

Leon M. Laderman
President

F. Sherwood Rowland
President-elect

Mary Ellen Avery
Eugene H. Cota-Robles
Robert A. Frosch
Joseph G. Gavin, Jr.
Florence P. Haseltine
Jeanne M. Sheeves
Warren M. Washington
William T. Golden
Treasurer

Richard S. Nicholson
Executive Officer

Editorial Board

Charles J. Amrizen
Elizabeth E. Bailey
David Baltimore
William F. Brinkman
E. Margaret Burridge
Pierre-Gilles de Gennes
Joseph L. Goldstein
Mary L. Good
Harry B. Gray
John J. Hopfield
F. Clark Howell
Paul A. Marks
Yaoumi Nishizuka
Helen M. Ranney
Robert M. Scolow
Edward C. Stone
James D. Watson

Board of Reviewing Editors

John Abeloff
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
Charles R. Cantor
C. Thomas Caskey
Dennis W. Choi
Ralph J. Cicerone
John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Fredric S. Fay

Board of Reviewing Editors

Douglas T. Fearon
Harry A. Fozzard
Victor R. Fuchs
Theodore H. Geahlen
Margaret J. Geller
Roger I. Glass
Stephen F. Goff
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Konrad R. Krauskopf
Charles S. Levinson
Harvey F. Lodish
Richard Losick
Anthony R. Means
Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III

Stuart L. Pimm
Yeshayau Pocker
Denis A. Powers
Ralph S. Quatrano
Erkki Ruoslahti
Thomas W. Schoenber
Ronald H. Schwartz
Terrence J. Sajnowski
Thomas A. Steitz
Robert T. N. Taj
Emil R. Urrutia
Geert J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen H. Witte
William B. Wood
Keith Yamamoto

11 October 1991

TABLE OF CONTENTS 169

Downloaded from http://science-sciencemag.org/ on April 12, 2017
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/254/5029

**Permissions**  Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl