Editorial

Flying into the Future


ScienceScope

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

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

Research News

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

Perspective

The Human Genome Initiative—Do Databases Reflect Current Progress?: P. L. Pearson, B. Maidaik, M. Chipperfield, R. Robbins

Articles

On the Social Science Contribution to Governmental Decision-Making: E. Chelmsky
Reactivity of Organic Compounds in Hot Water: Geochemical and Technological Implications: M. Siskin and A. R. Katrzyk

THE GENOME MAPS 1991
Pullout chart appearing on pages 247–262.
Plus special clip-out guide to genome data bases on pages 201–207.
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 Mantle Plume Initiation Model for the Wrangellia 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, elt, 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. Walfeld, J. Ye, B. Hoseni, 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 Tumorigenesis 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 Fluorometer ■ Literature

Board of Directors

Mary Ellen Avery
Francisco J. Ayala
Eugene H. Cota-Robles
Robert A. Frosch
Joseph G. Gavin, Jr.
Florence P. Hasselblatt
Jeanne M. Shreeve
Warren M. Washington
William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

Editorial Board

Charles J. Arntzen
Elizabeth E. Bailey
David Baltimore
William F. Brinkman
E. Margaret Burbidge
Pierrot Galle de Gennes
Joseph L. Goldstein
Mary L. Good
Harry B. Gray
John J. Hopfield
F. Clark Howell
Paul A. Marks
Yasutomi Nishizuka
Helen M. Ranney
Richard M. Solow
Edward C. Stone
James D. Watson

Board of Reviewing Editors

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
Charles R. Cantor
C. Thomas Caskey
Dennis W. Choi
Ralph J. Cicerone
John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Fredric S. Fay

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]