How ewes recognize their offspring

833

NEWS

Hard Times in the Promised Land

728

Watkins Signals Retreat on DOE Directives

729

Yeast Chromosome III Reveals A Wealth of Unknown Genes

730

Are Neutrino Mass Hunters Pursuing a Chimera?

731

Ozone Hole: Not Over the Arctic—For Now

734

Press Urges Doubling for Research

734

THE GALLO INVESTIGATION

‘Verdicts’ Are in on the Gallo Probe

The Bottom Line of the OSI Report

735

Scientist-Consultants Accuse OSI of Missing the Pattern

Where Richards and OSI Part Company

738

DEPARTMENTS

THIS WEEK IN SCIENCE

715

EDITORIAL

717

Molecular Advances in Diseases

LETTERS

719


SCIENCESCOPE

727

Navy specialists go whale watching, Anderson likely to leave NIH, etc.

MOLECULAR ADVANCES

BIOTECH SPECIAL REPORT

Biotech’s Second Generation • Massachusetts Woos Biotech Investment • High-Tech Plants Promise a Bumper Crop of New Products • Animal Models Point the Way to Human Clinical Trials

ARTICLES

Cystic Fibrosis: Molecular Biology and Therapeutic Implications

F. S. Collins

Alzheimer’s Disease: A Cell Biological Perspective

K. S. Kosik

REPORT

Crystal Polarity: A Window on Ice Nucleation

J. M. McBride

BOOK REVIEWS

Whose Science? Whose Knowledge?, reviewed by R. Rapp • Quantum Cosmology and Baby Universes, D. Page • A History of Regeneration Research, K. Crawford • Vignettes: Ontogenetic Viewpoints • Books Received

PRODUCTS & MATERIALS

869

AAAS Board of Directors

Leon M. Lederman
Retiring President,
Chairman
F. Sherwood Rowland
President
Eliose E. Clark
President-elect
Mary Ellen Avery
Francisco J. Ayala
Robert A. Frosch

Florence P. Haseltine
Alan Scherzheim
Jeanne M. Shreeve
Chang-Lin Tien
Warren M. Washington
William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

John Abeloson
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. Gelber
John C. Gerhart
Roger I. M. Glass

Stephen P. Goff
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosakyn
Konrad R. Kraukopf
Michael LaBarbera
Charles S. Levinson III
Harvey F. Lodish
Richard Losick

Anthony R. Means
Mortimer Meckin
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yoshiyau Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Erikku Ruoslahti
Ronald H. Schwartz

Terence J. Sejnowski
Thomas A. Steitz
Richard F. Thompson
Robert T. N. Tjian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Harold Vranenau
Zena Werb
George M. Whitesides
Owen N. Witte
Keith Yamamoto

712

SCIENCE • VOL. 256 • 8 MAY 1992
Pedigrees describe the inheritance of genetic disorders in related individuals. The cover shows a rendition of the pedigree of myotonic dystrophy, a human genetic disease. Between generations, an unstable nucleotide triplet (GCT) is amplified, shown here by increasing symbol size. Individuals who carry larger amplifications are more severely affected, represented by greater intensity of color and more cracks (see page 784). A series of News Reports and Articles focuses on recent advances in the exploration of molecular aspects of disease. See the Editorial and pages 766 to 813. [Illustration: Mike A. De La Flor]

**REPORTS**

The Role of Crystal Polarity in α-Amino Acid Crystals for Induced Nucleation of Ice M. Gavis, J.-L. Wang, M. Eisenstein, M. Lahav, L. Leiserowitz 815


UV Spectrum and Proposed Role of Diethylberyllium in a "Li²⁺Be Solar Neutrino Experiment P. Dyer 820


Implication of GAP in Ras-Dependent Transactivation of a Polyoma Enhancer Sequence F. Schweighoffer, I. Barlat, M.-C. Chevallier-Multon, B. Tocque 825


Cholecystokinin Antianalgesia: Safety Cues Abolish Morphine Analgesia E. P. Wiertelak, S. F. Maier, L. R. Watkins 830

Changes in the Sensory Processing of Olfactory Signals Induced by Birth in Sheep K. M. Kendrick, F. Lévy, E. B. Keverne 833

Initiation of Deregulated Growth of Multipotent Progenitor Cells by bcr-abl in Vitro M. L. Gishizky and O. N. Witte 836


Recovery from Experimental Parkinsonism in Primates with G₂M Ganglioside Treatment J. S. Schneider, A. Pope, K. Simpson, J. Taggart, M. G. Smith, L. DiStefano 843


**TECHNICAL COMMENTS**

Neocortex Development and the Cell Cycle D. van der Kooy; S. K. McConnell and C. E. Kaznowski 849