

NEWS & COMMENT

Genome Shortcut Leads to Problems 1684
YAC Troubles Run Deep
Genome Databases Worry About Yeast
(and Other) Infections
BAC to the Future?

NASA Puts the Squeeze on the Station 1687

Can Basic Research Ever Find a Good Home in Biosphere 2? 1688

Controversial Vaccine Shows Promise 1689

Swords-to-Plowshares Plan Boosts R&D 1690

RESEARCH NEWS

Naked DNA Points Way to Vaccines 1691

Could Quasars Get Their Shine From Stars? 1692

Immunology: Interfering With Interferon 1693

Ecologists Put Some Life Into Models of a Changing World 1694
Could Plants Help Tame the Greenhouse?

Planetary Science: More Venus Science, or the Off Switch for Magellan? 1696

PERSPECTIVES

The Carved Stela from La Mojarra, Veracruz, Mexico 1700
G. E. Stuart

Does *E. coli* Have a Nose? 1701
J. S. Parkinson and D. F. Blair

ARTICLES

A Decipherment of Epi-Olmec Hieroglyphic Writing 1703
J. S. Justeson and T. Kaufman

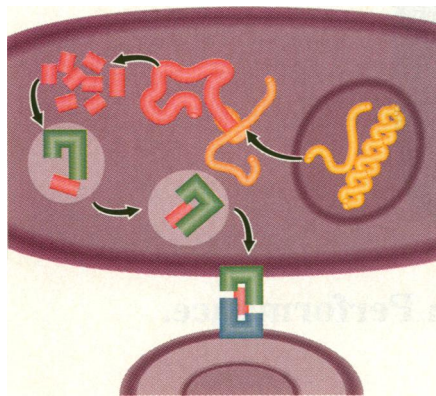
Ancient Conserved Regions in New Gene Sequences and the Protein Databases 1711
P. Green, D. Lipman, L. Hillier, R. Waterston, D. States, J.-M. Claverie

RESEARCH ARTICLE

Polar Location of the Chemoreceptor Complex in the *Escherichia coli* Cell 1717
J. R. Maddock and L. Shapiro

1691 & 1745

Injection of naked DNA to make a vaccine



DEPARTMENTS

THIS WEEK IN SCIENCE 1673

EDITORIAL 1675
Expanding the Uses of Enzymes

LETTERS 1676
The Oberrothenbach Catastrophe: L. W. Wattenberg; R. N. Proctor • Contamination of cDNA Sequences in Databases: C. Savakis and R. Doelz • Biotechnology in Japan: H. I. Miller • Gene Therapy Approval Process: I. Royston • The Cost of Regulation: T. D. Hopkins • From the Vatican: G. B. Marini-Bettòlo

SCIENCESCOPE 1683

RANDOM SAMPLES 1698

BOOK REVIEWS 1773
Testing Testing, reviewed by R. Jackall • *The Diversity of Life*, R. E. Ricklefs • *The Cambridge Guide to Astronomical Discovery*, R. C. Peterson • Books Received

PRODUCTS & MATERIALS 1777

AAAS Board of Directors

F. Sherwood Rowland
Retiring President, Chairman
Eloise E. Clark
President
Francisco J. Ayala
President-elect

Robert A. Froesch
Florence P. Haseltine
William A. Lester, Jr.

Alan Schriesheim
Jean'ne M. Shreeve
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. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozzard
Victor R. Fuchs
Theodore H. Geballe
Margaret J. Geller
John C. Gerhart
Roger I. M. Glass

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

Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
Erkki Ruoslahti
Ronald H. Schwartz

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

Board of Reviewing Editors