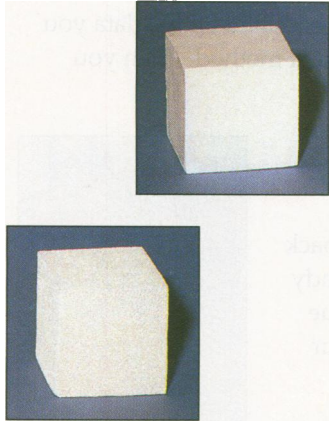
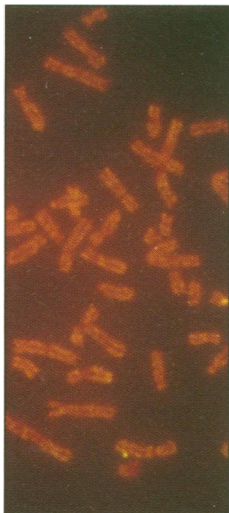


SCIENCE



1153
 Rough stuff



1178
 Molecular basis
 for SCID

NEWS

- Filtering a River of Cancer Data **1084**
 A Joint Russian-U.S. Investigation **1085**
- NIH Gets a Share of BRCA1 Patent **1086**
- Goldin Hopes to Trim Centers to Stave Off Program Cuts **1087**
- Erosion Study Finds High Price for Forgotten Menace **1088**
- Another Step Toward a Diamond-Beater **1089**
- Agencies Decry Fuzzy Science in Bill **1089**
- U.S. Oil and Gas Fields Double in Size **1090**
- Shedding Light on the Ticking of Internal Timekeepers **1091**
 Keeping PERFect Time **1092**
- Vertical Lasers Take Aim at New—and Colorful—Targets **1093**

SPECIAL NEWS REPORT

- The Defense Initiative of the 1990s Countering Nuclear Terrorism: Dwindling Capabilities? **1096**
- The Front Line of Nuclear Defense Counterproliferation Initiative Blurs Agency Lines **1100**

POLICY FORUM

- Post-Cold War Nuclear Dangers: Proliferation and Terrorism **1112**
 J. H. Nuckolls

PERSPECTIVE

- Punctuated Evolution of Embryos **1115**
 G. A. Wray

ARTICLES

- Environmental and Economic Costs of Soil Erosion and Conservation Benefits **1117**
 D. Pimentel, C. Harvey, P. Resosudarmo, K. Sinclair, D. Kurz, M. McNair, S. Crist, L. Shpritz, L. Fitton, R. Saffouri, R. Blair
- Prehistoric Extinctions of Pacific Island Birds: Biodiversity Meets Zooarchaeology **1123**
 D. W. Steadman

RESEARCH ARTICLE

- Head-On Collision Between a DNA Replication Apparatus and RNA Polymerase Transcription Complex **1131**
 B. Liu and B. M. Alberts

REPORTS

- Cooperative Organization of Inorganic-Surfactant and Biomimetic Assemblies **1138**
 A. Firouzi, D. Kumar, L. M. Bull, T. Besier, P. Sieger, Q. Huo, S. A. Walker, J. A. Zasadzinski, C. Glinka, J. Nicol, D. Margolese, G. D. Stucky, B. F. Chmelka

DEPARTMENTS

- | | |
|--|---|
| THIS WEEK IN SCIENCE 1073 | BOOK REVIEWS 1192 |
| EDITORIAL 1075
The Opportunity Connection | <i>The Evolutionary Biology of the Threespine Stickleback</i> , reviewed by G. V. Lauder • <i>The Perfect Machine</i> , S. J. Dick • <i>Asteroids, Comets, Meteors 1993</i> , F. Vilas • <i>Vignette</i> • Books Received |
| LETTERS 1077 | INSIDE AAAS 1200 |
| SCIENCESCOPE 1083 | PRODUCTS & MATERIALS 1203 |
| RANDOM SAMPLES 1095 | |

Board of Reviewing Editors

- | | | | | | | |
|---------------------|-------------------|----------------------|------------------------|---------------------|-----------------------|----------------------|
| Frederick W. Alt | Kathryn Calame | Richard G. Fairbanks | Ira Herskowitz | Diane Mathis | T. M. Rice | Robert T. N. Tjian |
| Don L. Anderson | C. Thomas Caskey | Douglas T. Fearon | Eric F. Johnson | Anthony R. Means | David C. Rubie | Emil R. Unanue |
| Michael Ashburner | Dennis W. Choi | Harry A. Fozzard | Stephen M. Koslyn | Shigetada Nakanishi | Erkki Ruoslahti | Geerat J. Vermeij |
| Stephen J. Benkovic | John M. Coffin | Klaus Friedrich | Michael LaBarbera | Roger A. Nicoll | Gottfried Schatz | Bert Vogelstein |
| David E. Bloom | F. Fleming Crim | Theodore H. Geballe | Nicole Le Douarin | Stuart L. Pimm | Jozef Schell | Harold Weintraub |
| Floyd E. Bloom | Paul J. Crutzen | John C. Gerhart | Charles S. Levings III | Yeshayau Pocker | Ronald H. Schwartz | Arthur Weiss |
| Piet Borst | James E. Dahlberg | Roger I. M. Glass | Alexander Levitzki | Dennis A. Powers | Terrence J. Sejnowski | Zena Werb |
| Henry R. Bourne | Robert Desimone | Stephen P. Goff | Harvey F. Lodish | Ralph S. Quatran | Ellen Solomon | George M. Whitesides |
| Michael S. Brown | Bruce F. Eldridge | Peter N. Goodfellow | Richard Losick | V. Ramanathan | Thomas A. Steitz | Owen N. Witte |
| James J. Bull | Paul T. Englund | Corey S. Goodman | Reinhard Lührmann | Douglas C. Rees | Michael P. Stryker | William A. Wulf |