123 This Week in Science

Editorial

125 Materials Science

Letters


News & Comment

133 SSC Sites: Then There Were Eight
134 Shuttle Setback
135 Revenge of the “Nozzleheads”
137 Details of 1957 British Nuclear Accident Withheld to Avoid Endangering U.S. Ties
138 Shakeup Under Way for Australian Science
140 Briefing: Rejuvenation at the Soviet Academy ■ Cosmonaut Faults Soviet Space Program ■ The Research Top Ten ■ AIDS Funds Increased; Helms Measure Blunted

Research News

141 Gamma Rays from Cygnus X-1
142 Meeting on the Mind: Need for Mother’s Touch Is Brain-Based ■ The Receptor Mismatch Controversy ■ Drug-Brain Interaction Sparks Debate

Articles

149 Effects of Acid Rain on Freshwater Ecosystems: D. W. Schindler
157 Infrared Laser Spectroscopy of Molecular Ions: R. J. Saykally

SCIENCE is published weekly on Friday, except the last week in December, and with an extra issue in February by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 48446) paid at Washington, DC, and at an additional entry. Now combined with The Scientific Monthly®. Copyright © 1988 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $65. Domestic institutional subscription (51 issues): $98. Foreign postage extra: Canada $32, other (surface mail) $27, air-surface via Amsterdam $66. First class, airmail, school-year, and student rates on request. Single copies $3.00 ($3.92 by mail); back issues $4.50 ($5.00 by mail); Biotechnology issues, $5.50 ($6 by mail); classroom rates on request: Guide to Biotechnology Products and Instruments $16 ($17 by mail). Change of address: allow 8 weeks, giving old and new addresses and seven-digit account number. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act 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 $.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/88 $1.00 + .10. Postmaster: Send Form 3579 to Science, 1333 H Street, NW, Washington, DC 20005. 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 objects 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, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
### Research Articles

170 Expression and Function of the Segmentation Gene *fushi tarazu* During *Drosophila* Neurogenesis: C. Q. Doe, Y. Hiromi, W. J. Gehring, C. S. Goodman


178 Role of the Protein Moiety of Ribonuclease P, a Ribonucleoprotein Enzyme: C. Reich, G. J. Olsen, B. Pace, N. R. Pace

181 Anti-Idiotypic Network Induced by T Cell Vaccination Against Experimental Autoimmune Encephalomyelitis: O. Lider, T. Reshef, E. Beraud, A. Ben-Nun, I. R. Cohen

184 A Quantitative Bioassay for HIV-1 Based on Trans-Activation: B. K. Felber and G. N. Pavlakis

187 Cell Wall Is Required for Fixation of the Embryonic Axis in *Fucus* Zygotes: D. L. Kroff, B. Kloareg, R. S. Quatrano


### Book Reviews

198 Darwin and the Emergence of Evolutionary Theories of Mind and Behavior, reviewed by J. C. Greene • The Young Earth, A. H. Knoll • A Functional Biology of Echinoderms, J. S. Pearse • Synaptic Function, L. L. Iversen • Books Received

### Products & Materials

205 Autoradiography Enhancer • Equation-Solving Software • Interactive Image Analysis System • DNA Amplification • Electrophoresis System • Flat-Screened Monitor • Literature
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/239/4836

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