271 This Week in Science

Editorial

273 Economic Arteriosclerosis and Competitiveness

Letters


News & Comment

283 Politics of the Heart

284 Japan Prodded on the Environment Biotechnology Investment Lags

285 Perestroika and Détente Boost IIASA's Prospects

286 Panel Completes Interviews in "Baltimore Case"

287 A Bleak Portrait of Soviet Science Becker to Retain NIH Research Post

288 Debate Warming Up on Legal Migration Policy ■ Effect of 1986 Law Still Unproven

Research News

291 A Lopsided Look at Evolution

293 Eye Cancer Gene Linked to New Malignancies

295 Molecular Photography with an X-ray Flash

296 Soar: A Unified Theory of Cognition?

Articles

299 U.S. Competitiveness: Beyond the Trade Deficit: G. N. Hatsopoulos, P. R. Krugman, L. H. Summers

308 Components of Competitiveness: L. R. Klein

313 Technology and Competitiveness: A Key to the Economic Future of the United States: J. A. Young

Research Articles

317 The RAD9 Gene Controls the Cell Cycle Response to DNA Damage in Saccharomyces cerevisiae: T. A. Weinert and L. H. Hartwell

323 Helical Repeat and Linking Number of Surface-Wrapped DNA: J. H. White, N. R. Cozzarelli, W. R. Bauer

Reports

328 Estimate of Electromagnetic Quantities in Space from Ground Magnetic Records: Y. Kamide


* 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. 484460) paid at Washington, DC, and at an additional entry. 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): $70. Domestic institutional subscription (51 issues): $110. Foreign postage extra: Canada $33, other (surface mail) $32, air-surface via Amsterdam $65. First class, airmail, school-year, and student rates on request. Single copies $3.00 ($3.50 by mail); back issues $4.50 ($5.00 by mail); Biotechnology issue, $5.50 ($6 by mail); classroom rates on request; Guide to Biotechnology Products and Instruments $16 ($17 by mail). Change of address: allow 6 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 $0.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/83 $1.00. 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.
Design of a Monomeric Arsinogallane and Chemical Conversion to Gallium Arsenide: E. K. Byrne, L. Parkany, K. H. Theopold

Congenital Poisoning by Polychlorinated Biphenyls and Their Contaminants in Taiwan: W. J. Rogan, B. C. Gladen, K.-L. Hung, S.-L. Koong, L.-Y. Shih, J. S. Taylor, Y.-C. Wu, D. Yang, N. B. Ragan, C.-C. Hsu

Molecular Cloning of Odorant-Binding Protein: Member of a Ligand Carrier Family: J. Peysner, R. R. Reed, P. G. Feinstein, S. H. Snyder

GABA<sub>4</sub>-Receptor Function in Hippocampal Cells Is Maintained by Phosphorylation Factors: A. Stelzer, A. R. Kay, R. K. Wong


Naturally Occurring Auxin Transport Regulators: M. Jacobs and P. H. Rubery

Negative Regulation by Glucocorticoids Through Interference with a cAMP Responsive Enhancer: L. E. Akersblom, E. P. Slater, M. Beato, J. D. Baxter, P. L. Mellon


The International Atomic Energy Agency and World Nuclear Order, reviewed by B. Sanders

Charles Darwin's Notebooks, 1836–1844, W. Montgomery

The Heritage of Experimental Embryology, J. A. Witkowskii

Mante Xenoliths, J. W. Shervais

Books Received

Flask Rinser

Image Analysis System

Nucleic Acid Isolation

Sodium Analysis Software

Video Caliper

Automated Peptide Synthesizer

Literature
Science 241 (4863), 271-368.