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
285 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
288 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 Economic Competitiveness
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
Does it matter whether the United States is competitive in the global marketplace? Several articles in this issue of Science focus on that question and how economic competitiveness affects not only individuals and government but also our industries, particularly high-technology industry. See page 299. [Cover design by John L. Heinly, Burke, VA 22015]

332 Design of a Monomeric Arsinogallane and Chemical Conversion to Gallium Arsenide: E. K. Byrne, L. Parkanyi, K. H. Theopold

334 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

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

339 GABA<sub>2</sub>-Receptor Function in Hippocampal Cells Is Maintained by Phosphorylation Factors: A. Stelzer, A. R. Kay, R. K. S. Wong


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


**Book Reviews**

363 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. Witkowski ■ Mantle Xenoliths, J. W. Sherfais ■ Books Received

**Products & Materials**

368 Flask Rinser ■ Image Analysis System ■ Nucleic Acid Isolation ■ Densitometry Software ■ Video Caliper ■ Automated Peptide Synthesizer ■ Literature