This Week in Science

Editorial

261 Science in Japan: A Status Report

Letters

263 Space Shuttle Development: J. C. Fletcher; J. Logsdon

News & Comment

267 School Reformers Aim at Creativity

270 Japan's U.S. R&D Role Widens, Begs Attention


Research News

280 Now Four Laboratories Have Squeezed Light

281 Briefing: Faster Division with Computers


Articles

Science in Japan

291 Technological Diversification of Japanese Industry: F. Kodama

296 Japanese Research and Technology Policy: L. Lynn

301 Japanese Competitiveness and Japanese Management: S. Minabe

305 Studies and Perspectives of Protein Kinase: C. Y. Nishizuka

312 Studies on Environmental Chemical Carcinogenesis in Japan: T. Sugimura

318 Organic Synthesis in Japan: From Natural Products to Synthetic Control: T. Mukaiyama

324 Recent Earthquake Prediction Research in Japan: K. Mogi

330 Brownian Motion and Nonequilibrium Statistical Mechanics: R. Kubo

334 Evolution of Meson Science in Japan: T. Yamazaki
Traditional Japan, symbolized by this view of Nara's Muroji Temple, provides the cultural and social backdrop to the modern vigorous practice of science, technology, and economics that is emphasized in this special issue on Science in Japan. See page 291. [Photo courtesy of Japan Air Lines]

Reports

339 Iridium Abundances Across the Ordovician-Silurian Stratotype: P. Wilde, W. B. N. Berry, M. S. Quinby-Hunt, C. J. Orth, L. R. Quintana, J. S. Gilmore

341 Melittin-Like Peptides from the Shark-Repelling Defense Secretion of the Sole Paralichthys polyacatus: S. A. Thompson, K. Takahama, K. Nakashima, I. Kubota

343 Isolation of a New Human Retrovirus from West African Patients with AIDS: F. Clavel, D. Guérard, F. Brun-Vézinet, S. Chamaret, M.-A. Rey, M. O. Santos-Ferreira, A. G. Laurent, C. Dauguet, C. Katlama et al.


354 Differential Reflex Activity Determines Claw and Closer Muscle Asymmetry in Developing Lobsters: C. K. Govind and J. Pearce

356 Interferon Inhibits the Establishment of Competence in G0/S–Phase Transition: S. L. Lin, T. Kikuchi, W. J. Pledger, I. Tamm

359 Temperature Regulation of Bacterial Activity During the Spring Bloom in Newfoundland Coastal Waters: L. R. Pomeroy and D. Diebel

361 Functional Differences Between Two Classes of Sodium Channels in Developing Rat Skeletal Muscle: R. E. Weiss and R. Horn

364 Human Prion Protein cDNA: Molecular Cloning, Chromosomal Mapping, and Biological Implications: Y.-C. J. Liao, R. V. Lebo, G. A. Clawson, E. A. Smuckler

Book Reviews

371 A Century of Controversy, reviewed by M. Ebihara • Quaternary Evolution of the Great Lakes, J. A. Elson • Birth and Evolution of Massive Stars and Stellar Groups, W. M. Brunish • History of British Space Science, D. H. DeVorkin • Books Received

Products & Materials

374 Mass Monitor • Submicron Particle Analyzer • Computer Interface for Physiological and Behavioral Instruments • Nonradioactive Nucleic Acid Detection • Scanning Electron Microscope • Literature