### Editorial
573 The Process of Publication

### Policy Forum
574 On Radiation, Paradigms, and Hormesis: L. A. Sagan
575 Are Radiation-Induced Effects Hormetic?: S. Wolff

### Perspective
578 AIDS and IV Drug Use: D. C. Des Jarlaiss, and S. R. Friedman

### Letters

### News & Comment
588 Facing a Final Exam at Neptune
590 Making Transgenic Mice: Is It Really That Easy?
592 Computer Engineer Turns Entrepreneur-in-Exile ■ Biologist Monitors Human Rights
593 Estrogen Use Linked to Breast Cancer New Rules on Misconduct

### Research News
594 Keeping Up with the Joneszawas
595 How the Grinch Stole Mathematics
596 Supercomputer Market Needs Supersalesmen
598 NCI Team Remodels Key AIDS Virus Enzyme
599 Briefings: Bromley Confirmed; Hill Awaits Deputies ■ AZT for ARC ■ Plugging into the Pacific Ocean ■ Roe Plans Hearing on Fate of NIH Monkeys ■ Stars and the Greenhouse ■ Sex Secrets Safe

### Articles
600 The Growth of Japanese Science and Technology: F. Narin and J. D. Frame
605 Ocular Dominance Column Development: Analysis and Simulation: K. D. Miller, J. B. Keller, M. P. Stryker

### Research Articles

### Reports
622 Surface Discharges on Natural Dielectrics in the Solar System: H. Campins and E. P. Krider
624 Nonequilibrium Molecular Motion in a Hypersonic Shock Wave: G. PHAM-VAN-DIEP, D. ERWIN, E. P. MUNTZ

626 Synthetic of Organic Salts with Large Second-Order Optical Nonlinearities: S. R. MARDER, J. W. PERRY, W. P. SCHAEFER

628 Scandinavian, Siberian, and Arctic Ocean Glaciation: Effect of Holocene Atmospheric CO² Variations: D. R. LINDSTROM and D. R. MACA YEA L


635 Three-Dimensional Solution Structure of a Single Zinc Finger DNA-Binding Domain: M. S. LEE, G. GIPPERT, K. V. SOMAN, D. A. CASE, P. E. WRIGHT


643 The Product of the mos Proto-Oncogene as a Candidate "Initiator" for Oocyte Maturation: N. SAGATA, I. DAAR, M. OSKARSSON, S. D. SHOWALTER, G. F. VANDE WOUDE

646 Preferential Heterodimer Formation by Isolated Leucine Zipper from Fos and Jun: E. K. O'SHEA, R. RUTKOWSKI, W. F. STAFFORD III, P. S. KIM

648 NMDA Antagonists Differentiate Epileptogenesis from Seizure Expression in an in Vitro Model: S. F. STASHEFF, W. W. ANDERSON, S. CLARK, W. A. WILSON

651 A Novel mRNA of the A4 Amyloid Precursor Gene Coding for a Possibly Secreted Protein: F. DE SAUVAGE and J.-N. OCTAVE

Book Reviews

654 E. W. R. STEACIE and Science in Canada: reviewed by: J. L. GRANATSTEIN ■ The Mathematical Tourist and Innumeracy, L. LOEVINGER ■ Arguments on Evolution, D. JABLONSKI ■ Some Other Books of Interest ■ Books Received

Products & Materials

658 Microplate Washer ■ Custom Peptide Synthesis ■ Antibodies ■ CD-ROM Chromatography Database ■ Spatial Imaging of Radioactive Samples ■ Incubator for Blotting ■ Literature