### Editorial
- **1489** Science Advice to the President

### News & Comment
- **1497** Conflict of Interest Eyed at Harvard
- **1499** NIH Panel Finds No Fraud in Cell Paper but Cites Errors
- **1500** UCSF Wins Round in Fight over Lab DOEs Guide to Weapons Plant Spills
- **1501** Furor in Fusion Labs
- **1502** Gene Transfer Test Back on Track
- **1503** Marine Mammals Join the Navy

### Research News
- **1505** Which Clor-Dissolving Drug Is Best?
- **1507** Computer Search Solves an Old Math Problem
- **1508** Extinction Imminent for Native Plants
- **1509** Sex and Violence in Neuroscience: Sex Hormones Linked to Task Performance
- **1511** New Active Faults in L.A.

### Articles
- **1513** The Global Impact of the Chernobyl Reactor Accident: L. R. ANSPAUGH, R. J. CATLIN, M. GOLDMAN
- **1519** Chemistry of High-Temperature Superconductors: A. W. SLEIGHT

### Research Articles

### Reports
- **1535** The Isotopic Composition of Methane in Polar Ice Cores: H. CRAIG, C. C. CHOU, J. A. WELHAN, C. M. STEVENS, A. ENGELKEMIR
- **1539** Dynamics of a Second-Order Phase Transition: PT to II Phase Transition in Anorthite, CaAl2Si2O8: S. GHOSE, G. VAN TENDELOO, S. AMELINCKX

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Three stages in the embryogenesis of the ascidian *Botryllus viola*. Upper left: fertilized egg, 30 minutes after sperm penetration. The endogenous orange pigment, which was uniformly distributed in the unfertilized egg, has formed a cap at the vegetal pole. Center: two-cell stage, 120 minutes after fertilization. Lower right: gastrula, 13 hours after fertilization. The pigment has segregated into muscle-lineage cells, which line the posterior rim of the blastopore. See page 1572. [L. Simoncini, M. L. Block, W. J. Moody, Department of Zoology, University of Washington, Seattle, WA 98195]

1544 Translation of Unspliced Transcripts After Heat Shock: H. J. Yost and S. Lindquist


1551 Competitive Inhibition of hsp70 Gene Expression Causes Thermosensitivity: R. N. Johnston and B. L. Kucy

1554 Unexpectedly High Levels of HIV-1 RNA and Protein Synthesis in a Cytopidal Infection: M. Somasundaran and H. L. Robinson

1557 Human T Cell Leukemia Viruses Use a Receptor Determined by Human Chromosome 17: M. A. Sommerfelt, B. P. Williams, P. R. Clapham, E. Solomon, P. N. Goodfellow, R. A. Weiss

1559 A DNA Binding Protein Regulated by IL-4 and by Differentiation in B Cells: M. Boothby, E. Gravallese, H.-C. Liou, L. H. Glimcher


1570 The elav Gene Product of *Drosophila*, Required in Neurons, Has Three RNP Consensus Motifs: S. Robinow, A. R. Campos, K.-M. Yao, K. White

1572 Lineage-Specific Development of Calcium Currents During Embryogenesis: L. Simoncini, M. L. Block, W. J. Moody


1578 Evidence That the M2 Membrane-Spanning Region Lines the Ion Channel Pore of the Nicotinic Receptor: R. J. Leonard, C. G. Labarca, P. Charnet, N. Davidson, H. A. Lester

---

**Book Reviews**

1583 Sexual Selection, reviewed by R. Gibson • The Cold Light of Dawn, D. E. Osterbrock • Superstrings, B. Ovrut • Some Other Books of Interest • Books Received

---

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1588 Imaging Workstation • Electrophoretic Power Supplies • Immobilized Recombinant Protein G • Plotting Software • Nucleic Acid Photodocumentation System • Amino Acid Analyzer • Cytometer • Literature

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16 DECEMBER 1988 TABLE OF CONTENTS 1485
242 (4885)

Science 242 (4885), 1487-1588.

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