Editorial

1765 Federally Funded Research

Letters


ScienceScope

1775 Science policy boosting at DOE; detector backbiting at the SSC; etc.

News & Comment

1776 Labstyles of the Famous and Well Funded
1779 Seventh AIDS Conference: Mostly "Fine Tuning"
1780 Huge Eruption May Cool the Globe Whom Do Yew Trust?
1781 Does the Harrison Case Reveal Sexism in Math?
1783 Funding Cutoff Threatens Thai Science
1784 Briefings: Oil and Water ■ Senate Boosts SSC, Main Injector Funding ■ Borderless Grants ■ Can-do Bugs ■ Logger's Dismay ■ Can PR Cool the Greenhouse? ■ A Transforming Look at C60 ■ Please Sir, $250 Million More

Research News

1786 Untwinkling the Stars
1788 A New Role for Gases: Neurotransmissions
1789 Famous Monkeys Provide Surprising Results
1790 Fire and Ice: Under the Deep-Sea Floor
1792 How Many Genes Had to Change to Produce Corn?
1794 A Call to Action on a Human Brain Project

Perspective

1796 Engineered Metal-Binding Proteins: Purification to Protein Folding:
F. H. Arnold and B. L. Haymore

Articles

1805 Localization and Its Absence: A New Metallic State for Conducting Polymers: P. Phillips and H.-L. Wu
1813 Blood Pressure Control—Special Role of the Kidneys and Body Fluids: A. C. Guyton

Research Articles

1817 Three-Dimensional Structure of the LDL Receptor-Binding Domain of Human Apolipoprotein E: C. Wilson, M. R. Wardell, K. H. Weisgraber, R. W. Mahley, D. A. Agard
COVER  The head of the blowfly Calliphora erythrocephala with its large compound eyes. Each eye contains about 5000 ommatidia, which provide the fly with all its information about the visual world. Because it is highly regular and easily accessible for electrophysiology, the fly visual system is widely used in the study of the fundamental aspects of neural information processing. See page 1854. [Photograph by H. L. Leertouwer]


Reports

1829 Pressure Dependence of Superconductivity in Single-Phase K$_3$C$_60$: G. Sparn, J. D. Thompson, S.-M. Huang, R. B. Kaner, F. Diederich, R. L. Whetten, G. Gruner, K. Holzcer

1831 Environmental Patterns in the Origins of Higher Taxa: The Post-Paleozoic Fossil Record: D. Jablonski and D. J. Bottjer


1836 Development of Diapirc Structures in the Upper Mantle Due to Phase Transitions: M. Liu, D. A. Yuen, W. Zhao, S. Honda

1839 Regulation of B Cell Antigen Receptor Signal Transduction and Phosphorylation by CD45: L. B. Justement, K. S. Campbell, N. C. Chien, J. C. Cambier

1842 Tissue-Specific Splicing in Vivo of the $\beta$-Tropomyosin Gene: Dependence on an RNA Secondary Structure: D. Libri, A. Piseri, M. Y. Fiszman

1845 Subunit Communication in the Anthranilate Synthase Complex from Salmonella typhimurium: M. G. Caligiuri and R. Bauerele

1848 A Corticosteroid Receptor in Neuronal Membranes: M. Orchinik, T. F. Murray, F. L. Moore


1854 Reading a Neural Code: W. Bialek, F. Rieke, R. R. de Ruyter van Steveninck, D. Warland


Book Reviews

1863 The Surgical Solution, reviewed by J. Reed  Living Fossil, J. E. McCosker  Longevity, Senescence, and the Genome, T. B. L. Kirkwood  Biological Mass Spectrometry, P. Williams  Books Received

Products & Materials

1866 Sonic Wind System  Automated Coordination Tester  Medium for Peptide and Protein Separations  Microbiological Decontamination Station  Cellulose Acetate Electrophoresis Membranes  New Version of ChiWriter  Messenger RNA Purification Kit  Literature

Author Index for Volume 252 is on pages i-x