1635 This Week in Science

Editorial

1637 The Molecule of the Year

Molecule of the Year


Letters

1644 Carcinogens and Human Health: Part I; F. P. Perera; B. N. Ames and L. S. Gold • The Avocado Illusion: P. E. Sandorff

News & Comment

1648 Choosing Detectors for the SSC
1650 Stanford Sails into a Storm • A Rare View of the Moon
1652 Biomedical Funding: The Eternal "Crisis": Plus ça Change
1654 Space Program: A Blueprint for Ambiguity?

Research News

1655 Slow Going for Blood Substitutes: Blood, Money, and the Pentagon
1657 Immune Mystery Revealed: How MHC Meets Antigen
1658 Astro-1: From the Jaws of Defeat
1659 Breast Cancer: Two Steps Closer to Understanding
1660 Volcanoes: Old, New, and—Perhaps—Yet to Be: A New Wrinkle for the Face of Venus • Volcano Watchers Await Long Valley's Signal • Surging Plate Tectonics Erupts Beneath the Sea

Articles

1665 A Mechanism for Social Selection and Successful Altruism: H. A. Simon
1678 Mechanisms in the Cycle of Violence: K. A. Dodge, J. E. Bates, G. S. Pettiti

Research Articles

1690 Cloning and Expression of a Developmentally Regulated Protein That Induces Mitogenic and Neurite Outgrowth Activity: Y.-S. Li, P. G. Milner et al.
1694 Targeting the E1 Replication Protein to the Papillomavirus Origin of Replication by Complex Formation with the E2 Transactivator: I. J. Mohr, R. Clark et al.

Reports

1700 Iridium Profile for 10 Million Years Across the Cretaceous-Tertiary Boundary at Gubbio (Italy); W. Alvarez, F. Asaro, A. Montanari
1702 Kinematics of Late Paleozoic Continental Collision Between Laurentia and Gondwana: P. E. Sacks and D. T. Secor, Jr.
1705 Control of a Desert-Grassland Transition by a Keystone Rodent Guild: J. H. Brown and E. J. Haske
Zinc Mediation of the Binding of Human Growth Hormone to the Human Prolactin Receptor: B. C. Cunningham, S. Bass, G. Fuh, J. A. Wells

Stable, Monomeric Variants of λ Cro Obtained by Insertion of a Designed β-Hairpin Sequence: M. C. Mossing and R. T. Sauer


Induction by Antigen of Intrathymic Apoptosis of CD4+CD8+ TCRβ+ Thymocytes in Vivo: K. M. Murphy, A. B. Heimberger, D. Y. Loh

Transport Protein Genes in the Murine MHC: Possible Implications for Antigen Processing: J. J. Monaco, S. Cho, M. Attaya


Hemolin: An Insect-Immune Protein Belonging to the Immunoglobulin Superfamily: S.-C. Sun, I. Lindström, H. G. Boman, J. Baye, O. Schmidt

Dominant Negative Regulation of the Mouse α-Fetoprotein Gene in Adult Liver: J. Vacher and S. M. Tilghman

Calcium-Sensitive Inactivation in the Gating of Single Calcium Channels: D. T. Yue, P. H. Backx, J. P. Imrey


Regulation of Progesterone Receptor-Mediated Transcription by Phosphorylation: L. A. Denner, N. L. Weigel, B. L. Maxwell et al.


Hot Spots for Growth Hormone Gene Deletions in Homologous Regions Outside of Alu Repeats: C. L. Vnenčak-Jones and J. A. Phillips III