This Week in Science

The Molecule of the Year


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

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

Slow Going for Blood Substitutes • Blood, Money, and the Pentagon
Immune Mystery Revealed: How MHC Meets Antigen
Astro-1: From the Jaws of Defeat
Breast Cancer: Two Steps Closer to Understanding
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
Briefings: NSF Watch Plays Up Misconduct • Natchez Man Gets Younger • Gazing Through a Gravitational Lens • What Next for the Energy Labs? • Brown Outs Staffer from Committee • Ulysses: All Shook Up • Pinning Down Sequencing Costs • GAO Finds Weapons Labs Vulnerable . . .

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

Cloning and Expression of a Developmentally Regulated Protein That Induces Mitogenic and Neurite Outgrowth Activity: Y. -S. Li, P. G. Milner et al.
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.

Iridium Profile for 10 Million Years Across the Cretaceous-Tertiary Boundary at Gubbio (Italy): W. Alvarez, F. Asaro, A. Montanari
Kinematics of Late Paleozoic Continental Collision Between Laurentia and Gondwana: P. E. Sacks and D. T. Secor, Jr.
Control of a Desert-Grassland Transition by a Keystone Rodent Guild: J. H. Brown and E. J. Heske
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. Faye, 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. Vnencak-Jones and J. A. Phillips III


Forensic Scientists Uncovering Fate of Brazil’s “Disappeared” with help of AAAS

The High-Status Track, reviewed by D. Karen

The Diverted Dream, H. S. Wechsler

Moments in the Life of a Scientist, M. W. Friedlander

Freedom in Machinry, J. Duffy and M. Griffis

The Astronomer’s Universe, K. Bracher

The Mechanics of Earthquakes and Faulting, R. L. Bruhn

Books Received

Nucleic Acid Cross-Linker, Powerful Desktop PC, Colorimetric Web for Protein Immunoblotting, Monoclonal Antibodies, Ribonucleic Protection Assay Kit, Chemiluminescent DNA-Typing Kit, Literature

Author Index to Volume 250 is found on pages 1–X
Information for Contributors is found on pages XI–XII