This Week in Science

Editorial

New Horizons in Medicine


News & Comment

Europe Split on Embryo Research
A 20% Boost for Soviet Science
Space Reactors Hinder Gamma-Ray Astronomy
Collapse of a Radio Giant
The Worm's Aftermath
Soviet-Based Global Foundation Takes Shape Sakharov Honored
Genome Project "Alternative Nobels"

Research News

Sunspot-Weather Link Holding Up
One More Family of Superconductors
NeXT Embraces a New Way of Programming
Linguists Search for the Mother Tongue
Random Samples: Feeding the Hungry Authors, Authors! Carlson's Oeuvre

Articles

Self-Organization, Transformity, and Information: H. T. Odum
Space, Stars, C60, and Soot: H. Kroto

Research Articles

Microinjected DNA from the X Chromosome Affects Sex Determination in Caenorhabditis elegans: W. K. McCoubrey, K. D. Nordstrom, P. M. Meneely

Reports

Colonies of the social wasp, Polybia occidentalis (yellows have been enhanced by the electronic flash), often have multiple queens as do colonies of many other neotropical wasps. The presence of multiple egg layers is expected to lower relatedness within colonies. The first estimates of relatedness for these wasps show that it is very low in one species, but in two other species it is not markedly lower than relatedness in some single-queen species. See page 1155. [Colin R. Hughes, Department of Biology, Rice University, Houston, TX 77251]

1155 Genetic Relatedness in Colonies of Tropical Wasps with Multiple Queens: D. C. Queller, J. E. Strassmann, C. R. Hughes
1157 Nitrogen Fixation by Anaerobic Cellulolytic Bacteria: S. B. Leschine, K. Holwell, E. Canale-Parola
1159 An in Vitro System for Accurate Methylation of Internal Adenosine Residues in Messenger RNA: P. Narayan and F. M. Rottman
1164 Intron Existence Predated the Divergence of Eukaryotes and Prokaryotes: M.-C. Shihi, P. Heinrich, H. M. Goodman
1166 HIV-Infected Cells Are Killed by rCD4-Ricin A Chain: M. A. Till, V. Ghetie, T. Gregory, E. J. Patzer, J. P. Porter, J. W. Uhr, D. J. Capon, E. S. Vittetta
1168 Fidelity of HIV-1 Reverse Transcriptase: B. D. Preston, B. J. Poesz, L. A. Loeb
1171 The Accuracy of Reverse Transcriptase from HIV-1: J. D. Roberts, K. Bebeneck, T. A. Kunkel
1174 Demethylated CD8 Gene in CD4+ T Cells Suggests That CD4+ Cells Develop from CD8+ Precursors: A. M. Carbone, P. Marrack, J. W. Kappler
1176 Inositol 1,3,4,5-Tetrakisphosphate Induces Ca2+ Sequestration in Rat Liver Cells: T. D. Hill, N. M. Dean, A. L. Boynton

Book Reviews

1182 Science as a Process, reviewed by J. M. Smith • The Law of the Land, H. D. Woodman • Some Other Books of Interest • Books Received

Products & Materials

1186 80386-Based Laptop Computer • Liquid Scintillation Counter • pH Electrode for Small Volumes • Programmable Microtome Incubator • Cloning Systems for cDNA • Software for Chemical Inventory Management • Literature
Editor's Summary

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