This Week in Science


Entomologists in the Medfly Maelstrom

Getting to the Heart of the Cholesterol Debate Why Statistics May Understate the Risk of Heart Disease

How Is Basic Science Faring in Canada?

Risk Assessors Taken to Task Space Planners Brought Down to Earth

How Do You Measure the Lovejoy Effect?

NIH Seeks a Chief, Desperately

When a Radical Experiment Goes Bust Is the Siljan Hole Completely Dry?

Twin Quasars Found

The Fluids with a Case of Split Personality At Long Last, Will ER Fluids Compute?

Gene Therapy Proposed

Briefings: NIH Left Peerless for Genome Centers Biotechnology: Manpower-Starved? Laser Record Set Ecologists Honored Scientific American Discovers TV Superconductor Partners Ex-Refusnik Dies False Alarm from Vet Slaying? No More Babies as Usual Who Leads the (Ivy) League in "Citation Impact? Designing for Aging

Venus: A Contrast in Evolution to Earth: W. M. Kaula


The Rotation Period of Saturn's Polar Hexagon: D. A. Godfrey
COVER Platelet–endothelial cell adhesion molecule–1 (PECAM-1) immuno-localized to the intercellular borders of human endothelial cells with the peroxidase–anti-peroxidase method. Molecular cloning revealed that PECAM-1 belongs to the cell adhesion molecule subfamily of the immunoglobulin gene superfamily. PECAM-1 is related to or identical to the CD31 antigen present on human platelets and some myeloid cells and may participate in surface recognition events. See page 1219. [Photograph courtesy of William A. Muller and Peter J. Newman]

1208 Steady-State Coupling of Ion-Channel Conformations to a Transmembrane Ion Gradient: E. A. Richard and C. Miller


1213 An Intron in the Genes for U3 Small Nucleolar RNAs of the Yeast Saccharomyces cerevisiae: E. Myslinski, V. Segault, C. Branlant

1216 Control of the Interferon-Induced 68-Kilodalton Protein Kinase by the HIV-1 tat Gene Product: S. Roy, M. G. Katze, N. T. Parkin, I. Ederly, A. G. Hovanessian, N. Sonenberg


1225 A T Cell–Specific Transcriptional Enhancer Within the Human T Cell Receptor δ Locus: J. M. Redondo, S. Hata, C. Brocklehurst, M. S. Krangel

1229 The Direction of Membrane Lipid Flow in Locomoting Polymorphonuclear Leukocytes: J. Lee, M. Gustafsson, K.-E. Magnusson, K. Jacobson

1233 Selectivity Changes in Site-Directed Mutants of the VDAC Ion Channel: Structural Implications: E. Blachly-Dyson, S. Peng, M. Colombini, M. Forte

Book Reviews


Products & Materials

1245 Small Sample CO2 and N2O Computer ■ Nonlinear Data Modeling Software ■ High-Purity Water System ■ Fast and Reproducible Genomic Blotting ■ Mutagenesis Kit ■ Literature