This Week in Science

Science at the Four-Year and Master's Universities

U.S. Nuclear Power in the Next Twenty Years: B. I. SPIRINAD

The Meadowcroft Rockshelter: J. M. ADOVASIO and R. C. CARLISLE ■ Brainwave Counting: W. A. CONIGLIO ■ Flora Project: M. S. STRAUSS

AIDS and Drug Abuse: No Quick Fix
ARS Prodded into the Open
Anglo-French Nuclear Missile Under Study


Patent Claim Buildup Haunts Biotechnology
NIH Scientists Balk at Random Drug Tests

Academy Backs Genome Project
Pushing Back the Redshift Limit
Was There a Prelude to the Dinosaurs' Demise?
Superconductors Hotter Yet

Causes of the Liability Insurance Crisis: S. HARRINGTON and ROBERT E. LITAN
Diode Laser-Pumped Solid-State Lasers: R. L. BYER

Glycosyl-Phosphatidylinositol Moiety That Anchors Trypanosoma brucei Variant Surface Glycoprotein to the Membrane: M. A. J. FERGUSON, S. W. HOMANS, R. A. DWEK, T. W. RADEMACHER

New Asymptotics for Old Wave Equations: J. R. KLAUDER
Cover: Subsets of developing T lymphocytes from a mouse, stained with fluorescently labeled monoclonal antibodies against the membrane glycoproteins, CD4 and CD8 ($\times2800$). Helper T cells (orange, CD4$^+$), cytotoxic and suppressor T cells (green, CD8$^+$), and immune blast cells (yellow, CD4$^+$ and CD8$^+$) each exhibit a characteristic pattern of ion-channel expression. See page 771. [Richard S. Lewis, University of California, Irvine 92717]

766 Effect of Neonatal Handling on Age-Related Impairments Associated with the Hippocampus: M. J. Meaney, D. H. Aitken, C. van Berkum, S. Bhatnagar, R. M. Sapolsky


771 Subset-Specific Expression of Potassium Channels in Developing Murine T Lymphocytes: R. S. Lewis and M. D. Cahalan


778 Effects of Intracellular Free Magnesium on Calcium Current in Isolated Cardiac Myocytes: R. E. White and H. C. Hartzell

780 A Fossil Reptile Embryo from the Middle Triassic of the Alps: P. M. Sander


786 One Factor Recognizes the Liver-Specific Enhancers in $\alpha_1$--Antitrypsin and Transthyretin Genes: D. R. Grayson, R. H. Costa, K. G. Xanthopoulos, J. E. Darnell

Technical Comments


Book Reviews

800 The Fall of the Bell System, reviewed by W. L. Baldwin ■ Medical Science and Medical Industry, J. W. Servos ■ Sea Surface Studies, O. H. Pilkey ■ Interstellar Processes, Physical Processes in Interstellar Clouds, J. Silk ■ Books Received

Products & Materials

807 Centrifugal Partition Chromatography System ■ Spectroscopy Software ■ LC Simulation Software ■ Integrator ■ Data-Acquisition System ■ HPLC Columns ■ Spectrophotometer Cell ■ Supercritical Fluid Chromatograph ■ Gas Chromatograph ■ Gas Cylinder Depletion Guard ■ Spectrometer ■ Column Packings ■ Atomic Absorption Spectrometers ■ Chemical Word-Processing Software ■ Diffractometer ■ Ultraviolet-Visible Spectrophotometer ■ Atomic Absorption Spectrometer ■ Automated Solid-Phase Sample Preparation ■ Supercritical Fluid Chromatograph ■ FTIR Spectrometer ■ ChemStation-Computer Communications ■ Data Collection Program ■ Literature
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