This Week in Science

Editorial
9 New Year's Resolutions and Future Shock

Letters
10 Carcinogens and Human Health: Part 2: D. P. RALL; B. N. AMES AND L. S. GOLD ■ Cold Spring Harbor: J. CAIRNS

News & Comment
19 NSF Centers Rise Above the Storm ■ A QUEST for Novel Electronics ■ New Alliances, New Technology ■ In Search of "Dark Matter"
23 Fight Over Data Disrupts Michigan State Project
24 SSC Detectors: Yes, No, Maybe
26 Will Canada Build on Earlier TRIUMF?
27 Briefings: Rehabilitation for Burt? ■ NASA's Wish List ■ Science Money Woes in the U.S.S.R.

Research News
28 Making 3-D Movies of the Heart
30 Cosmologists Begin to Fill in the Blanks
31 On the Road to Mandelate . . . Racemase

Perspective
33 Mechanisms of Alternative Pre-mRNA Splicing: T. MANIATIS

Articles
39 Free Radicals Within the Antarctic Vortex: The Role of CFCs in Antarctic Ozone Loss: J. G. ANDERSON, D. W. TOOHEY, W. H. BRUNE
46 The Dynamics of the Stratospheric Polar Vortex and Its Relation to Springtime Ozone Depletions: M. R. SCHOEBERL AND D. L. HARTMANN
53 Spot-Scan Imaging in Transmission Electron Microscopy: K. H. DOWNING

Research Articles
60 Atomic Structure of Ferredoxin-NADP+ Reductase: Prototype for a Structurally Novel Flavoenzyme Family: P. A. KARPLUS, M. J. DANIELS, J. R. HERRIOTT
Observational Evidence for a Possible New Diffusion Path: B. R. HACKER AND J. M. CHRISTIE

Long-Term Human B Cell Lines Dependent on Interleukin-4 and Antibody to CD40: J. BANCHEREAU, P. DE PAOLI, A. VALLÉ, É. GARCIA, F. ROUSSET

Expression cDNA Cloning of the KGF Receptor by Creation of a Transforming Autocrine Loop: T. MIKI, T. P. FLEMING, D. P. BOTTARO, J. S. RUBIN, D. RON, S. A. AARONSON


Glycosylphosphatidylinositol: A Candidate System for Interleukin-2 Signal Transduction: D. D. EARDLEY AND M. E. KOSHLAND


Inhibition of Morphine Tolerance and Dependence by the NMDA Receptor Antagonist MK-801: K. A. TRUJILLO AND H. AKIL

Critical Structural Elements of the VP16 Transcriptional Activation Domain: W. D. CRESS AND S. J. TRIESENBERG


Model Simulation of Mid-Cretaceous Ocean Circulation: K. B. FÖLMMI AND M. DELAMETTE; E. J. BARON AND W. H. PETERSON

Making Connections, reviewed by N. GERSTEL ■ The Superfluid Phases of Helium 3, J. W. SERENE ■ Squid as Experimental Animals, W. F. GILLY ■ Books Received

Pyrogen Removal and Detection Products ■ Software for Amino Acid Analysis ■ Illumination System ■ Graphics Software ■ Ductless Fume Hood ■ In-Vivo Electrochemistry System ■ HPLC Column Oven ■ Literature

Information to Contributors is found on pages 35–37.
Science 251 (4989), 7-99.

http://science.sciencemag.org/content/251/4989

http://www.sciencemag.org/help/reprints-and-permissions

Use of this article is subject to the Terms of Service