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**Science**

704 This Week in *Science*

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This issue contains articles on issues in atmospheric science, research on urban air pollution, and studies on human rights and environmental activism. Notably, it features research on the ocean's composition and the implications of acid deposition. The issue also touches on topics like superconductivity and the mechanism of interleukin-2 signaling. For more details, refer to the full article within the publication.
The Manganese Site of the Photosynthetic Water-Splitting Enzyme: 
G. N. George, R. C. Prince, S. P. Cramer

Control of Enzyme Activity by an Engineered Disulfide Bond: M. Matsumura 
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Physiological Constraint on Feeding Behavior: Intestinal Membrane 
Disaccharidases of the Starling: C. Martinez del Rio and B. R. Stevens

Disruption of the Yeast N-Myristoyl Transf erase Gene Causes Reduction Lethality: 
R. J. Duronio, D. A. Towler, R. O. Heuckeroth, J. I. Gordon

Isolation of a Novel Receptor cDNA Establishes the Existence of Two PDGF 
Receptor Genes: T. Matsui, M. Heidaran, T. Miki, N. Popescu, 
W. La Rochelle, M. Kraus, J. Pierce, S. Aaronson

Splice Variants of the α Subunit of the G Protein G, Activate Both Adenyl 
Cyclase and Calcium Channels: R. Mattera, M. P. Graziano, A. Yatani, 

Stretch-Induced Ion Channels Coexist with Stretch-Activated Ion Channels: 
C. E. Morris and W. J. Sigurdson

Nimodipine Facilitates Associative Learning in Aging Rabbits: R. A. Deyo, 
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Overexpression of Transforming Growth Factor α in Psoriatic Epidermis: 
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Purification of Growth Hormone–Specific Transcription Factor GHF-1 Containing 
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■ Elemental Analyzer ■ Calcium Measurement by Spectrophotometer ■ Report 
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■ Semi-preparatory HPLC ■ Secondary Ion Mass Spectrometer ■ H₂S-and-Air 
Mixtures for Calibration ■ Electronic Contrast System for Microscopy ■ LC-MS 
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Cover A cross section through Earth’s atmosphere over the Pacific Ocean, 
from the Space Shuttle Challenger. Stratosphere is in blue, troposphere in white and pink. 
This low sun angle photograph was taken by Bob Crippen, STS-17 Mission 
Commander, on 10 October 1984 from an altitude of 123 nautical miles. See page 
745. [NASA Earth photographs are available from EROS Data Center, Sioux Falls, 
SD 57198; provided by M. R. Hellett, Code SN15, NASA-Johnson Space Center, 
Houston, TX 77058]

10 FEBRUARY 1989