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Gamma Rays and Neutron Stars G. F. Bignami >> Reports p. 1218 and 1221
Interrogating Molecules G. Doumy and L. F. DiMauro >> Research Article p. 1207; Report p. 1232
Brain Wnts for Blood Vessels E. Lammert >> Report p. 1247
Coming Soon to a Library Near You? J. Wouters
Rogue Insect Immunity D. S. Schneider and M. C. Chambers >> Report p. 1257
SCIENCE EXPRESS

www.sciencexpress.org

SOCIOLOGY
The Spreading of Disorder
K. Keizer, S. Lindenberg, L. Steg
Upon observing signs of social disorder (such as littering or graffiti), individuals are more likely to disobey a variety of social rules, including prohibitions against theft.  

CELL BIOLOGY
Dynamic Proteomics of Individual Cancer Cells in Response to a Drug
A. A. Cohen et al.
Cells that escape death from a chemotherapy drug express a different array of proteins from genetically identical ones that died, which may help to inform cancer therapeutics.

REVIEW

PSYCHOLOGY
The Psychology of Transcending the Here and Now
N. Liberman and Y. Trope

BREVIA

ECOLOGY
Fossil Pollen as a Guide to Conservation in the Galápagos
J. F. N. van Leeuwen et al.
Fossil pollen shows that six plant species in the Galápagos, presumed to be invasive, had actually been native to the islands for thousands of years before human colonization.  

CHEMISTRY
Time-Resolved Dynamics in N₂O₄ Probed Using High Harmonic Generation
W. Li et al.
Electrons can be ejected from multiple orbitals of N₂O₄ by exploiting different stages in its excited vibrations, yielding an attosecond light probe of molecular dynamics.  

RESEARCH ARTICLES

CHEMISTRY
Real-Time DNA Sequencing from Single Polymerase Molecules
J. Eid et al.
Arrays of narrow waveguides can record the action of a DNA polymerase stepping along a primer template, potentially providing a way to sequence DNA molecules.

PHYSICS
Broadband Invisibility by Non-Euclidean Cloaking
U. Leonhardt and T. Tyc
In theory, materials with a negative refractive index deployed in a curved, non-Euclidean space can provide a route to cloaking and invisibility across a range of wavelengths.

BIOCHEMISTRY
The 2.6 Angstrom Crystal Structure of a Human A₂A Adenosine Receptor Bound to an Antagonist
V.-P. Jaakola et al.
The ligand binding pocket of the caffeine-binding human adenosine receptor has a different position and orientation than that of other G protein–linked receptors.

ASTRONOMY
The Fermi Gamma-Ray Space Telescope Discovers the Pulsar in the Young Galactic Supernova Remnant CTA 1
A. A. Abdo et al.
The Fermi Space Telescope has detected a gamma-ray pulsar associated with a young supernova remnant, implying that such stars may be unidentified gamma-ray sources.

PHYSICS
Ab Initio Determination of Light Hadron Masses
S. Dürr et al.
A quantum electrodynamics model that includes a full representation of quarks and their electromagnetic interactions accurately determines the masses of neutrons and protons.
A clue to the past.

SCIENCE NOW
www.sciencenow.org
HIGHLIGHTS FROM OUR DAILY NEWS COVERAGE
Earth’s Minerals Evolved, Too
Life and rocks have changed in concert.
Tumor Secrets Written in Blood
Cancer cells release telltale traces into the bloodstream.
Prehistoric Family Values
Archaeologists find what may be the oldest examples of a nuclear family.

Careers for scientists as financial analysts.

SCIENCE CAREERS
www.sciencecareers.org/career_development
FREE CAREER RESOURCES FOR SCIENTISTS
Special Feature: Scientists as Financial Analysts
A. Kotok
Despite today’s headlines, it might be a good time to plan for a career as a financial analyst.

Science Careers Podcast: Scientists as Quants
C. Wald
Financial systems executive Lee Maclin explains why scientists often succeed as quantitative analysts.

>> See Scientists as Financial Analysts feature p. 1264

Regulating TGF-β signaling from the nucleus.

SCIENCE SIGNALING
www.sciencesignaling.org
THE SIGNAL TRANSDUCTION KNOWLEDGE ENVIRONMENT
EDITORIAL GUIDE: Focus Issue—An Expanding World for TGF-β Signaling
N. R. Gough
With new modes of regulation and new functions for members of the pathway, TGF-β breaks the canonical barrier.
PERSPECTIVE: Holding Their Own—The Noncanonical Roles of Smad Proteins
L. L. Hoover and S. W. Kubalak
There are TGF-β–independent regulatory mechanisms and functions of Smads.
PERSPECTIVE: PCTA—A New Player in TGF-β Signaling
F. Liu
The distribution of promyelocytic leukemia protein between the nucleus and cytoplasm controls Smad activation.

FORUM: Highlights from a TGF-β Workshop
N. R. Gough
In addition to talks emphasizing the role of TGF-β in cancer, many speakers shared memories of Anita Roberts, scientist mentor, colleague, and friend.

NETWATCH: Cell Biology Promotion
Find an array of images, animations, and slides for teaching cell biology and signal transduction; in Educator Sites.

NETWATCH: Pfam
Explore the structures and functions of thousands of protein domain families; in Protein Databases.

Separate individual or institutional subscriptions to these products may be required for full-text access.
Science 322 (5905), 1159-1267.