## NEWS OF THE WEEK

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## CORRECTIONS AND CLARIFICATIONS

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## EDITORIAL

Opening Japan Up to the World by Kiyoshi Kurokawa 1163
**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.

>> News story p. 1175  
10.1126/science.1161405

**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.

>> News story p. 1176  
10.1126/science.1160165

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**REVIEW**

**PSYCHOLOGY**

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

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**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. >> Science Podcast

1206

**RESEARCH ARTICLES**

**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. >> Perspective p. 1194

1207

**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.

10.1126/science.1166332

**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.

10.1126/science.1162986

1211

**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.

>> Perspective p. 1193

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**Astronomy**

Observation of Pulsed γ-Rays Above 25 GeV from the Crab Pulsar with MAGIC
The MAGIC Collaboration

The MAGIC telescope has detected higher-energy, pulsed gamma rays from the Crab pulsar and a threshold suggesting that they are emitted from the outer magnetosphere.

>> Perspective p. 1193

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**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.

>> Perspective p. 1198

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Cascades Around Chromosomes
Regulation of Microtubule Dynamics by Reaction-diffusion Model Involving Regulatory Molecules and a Protein Kinase C. A. Athale et al.

Male fertility and promote repetitive mating in females, providing a possible explanation of polyandry.
T. A. R. Price et al.

Flies fight some infections by quickly engulfing bacteria in phagocytic cells then deploying antimicrobial peptides, a system that avoids bacterial resistance.

Serial Parasitic Killers
Control of Toxic Marine Dinoflagellate Blooms by Systemic Parasitic Killers
A. Chambouvet, P. Morin, D. Marie, L. Guillou

As successive populations of protists have caused summer red tides in France, each has been killed off by a distinct, persistent parasite, establishing a self-regulating ecosystem.

EVOLUTION
Variation in Evolutionary Patterns Across the Geographical Range of a Fossil Bivalve
M. Grey, J. W. Haggart, P. L. Smith

Within a fossil bivalve genus, evolution tended to occur as a random walk at the highest latitudes and to be in stasis mode in deep marine environments.

EVOLUTION
Selfish Genetic Elements Promote Polyandry in a Fly
T. A. R. Price et al.

Genes that confer a deleterious sex ratio in Drosophila also decrease male fertility and promote repetitive mating in females, providing a possible explanation of polyandry.

CELL BIOLOGY
Regulation of Microtubule Dynamics by Reaction-diffusion Model Involving Regulatory Molecules and a Protein Kinase
C. A. Athale et al.

A reaction-diffusion model involving regulatory molecules and a microtubule-stabilizing phosphoprotein predicts the spatial distribution of microtubules during cell division.

Special Feature
Scientists as Financial Analysts

Finance’s Quant(um) Mechanics
Analyzing Scientific Investments

>> See Science Careers section p. 1157 or go to www.sciencecareers.org; Science Podcast
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A. Kotok
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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

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