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Gamma-Ray Flares from the Crab Nebula
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Gamma-ray observations of the Crab Nebula by two different space telescopes challenge particle acceleration theory.
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A Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexico
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Methane released during the Deepwater Horizon blowout was degraded by methanotrophic bacteria.
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Global Tissue Revolutions in a Morphogenetic Movement Controlling Elongation
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Chief Scientific Editor Michael Yaffe reviews the year in Science Signaling.
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Human Tears Contain a Chemosignal
S. Gelstein et al.
Merely sniffing women’s negative emotional tears reduces sexual arousal in men.
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Seismic Detection of the Lunar Core
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Reinterpreted Apollo-era seismic data from the Moon reveal a solid inner core and a fluid outer core.
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Astronomy in the Time Domain
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EDITORIAL GUIDE: 2010—Signaling Breakthroughs of the Year
E. M. Adler
The editors highlight the year’s cell signaling breakthroughs.

RESEARCH RESOURCE: A Genome-Wide RNAi Screen Identifies Core Components of the G_{s-M} DNA Damage Checkpoint
S. Kondo and N. Perrimon
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JOURNAL CLUB: Protein S-Nitrosylation in Plants—Photos respiratory Metabolism and NO Signaling
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S-nitrosylation of mitochondrial proteins induces cell death in the plant pathogen defense response.

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B. L. Benderly
Recent reports from the National Academies see no break in the clouds over the scientific labor market.

Seizing Career Opportunities in Turkey
C. Wald
A few researchers trained in the United States and Europe are seeking—and often finding—careers in Turkey.

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REVIEW: The p53 Pathway as a Target in Cancer Therapeutics—Obstacles and Promise
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The complex role of the tumor suppressor p53 in normal and malignant cells complicates efforts to target it for cancer therapy.

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Research Article: Epigenetic Modification of the FMR1 Gene in Fragile X Syndrome Is Associated with Differential Response to the mGluR5 Antagonist AFQ056
S. Jacquemont et al.
An antagonist for the metabotropic glutamate receptor improves symptoms in some fragile X syndrome patients.

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Polymeric micelles containing a chemotherapeutic drug carry it adjacent to the DNA target in tumor cells, enhancing the drug potency.

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