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A High Phase-Space-Density Gas of Polar Molecules
K.-K. Ni et al.
Raman laser irradiation can cool a cloud of KRb molecules to ultralow translational, vibrational, and rotational temperatures, a step toward forming molecular condensates.
10.1126/science.1163861

Innate Immunity in Caenorhabditis elegans Is Regulated by Neurons Expressing NPR-1/GPCR
K. L. Styer et al.
In the nematode Caenorhabditis elegans, sensory neurons surprisingly can inhibit innate immune responses, in part through the mitogen-activated protein kinase signaling pathway.
10.1126/science.1163673

Transient Electronic Structure and Melting of a Charge Density Wave in TbTe₃
F. Schmitt et al.
Photoemission spectroscopy is extended to reveal the dynamics of correlated electronic phase transitions, showing how ordered electrons “melt” upon heating of TbTe₃.
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M. Kenzelmann et al.
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P. Nolte et al.
Pyramidal rhodium nanoparticles flatten upon surface oxidation at high temperatures but revert upon reduction, allowing the study of how structure affects catalytic activity.
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Polymer Pen Lithography
F. Huo et al.
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4D Electron Diffraction Reveals Correlated Unidirectional Behavior in Zinc Oxide Nanowires
D.-S. Yang, C. Lao, A. H. Zewail
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Political Attitudes Vary with Physiological Traits  
D. R. Oxley et al.

Individuals’ views on political issues relate to their physiological reactions to threatening stimuli: Desire to protect their group’s interests correlates with greater reactivity to threat.

**Microbiology**

An Inhibitor of FtsZ with Potent and Selective Anti-Staphylococcal Activity  
D. J. Haydon et al.

A small synthetic molecule directed against a microbial protein required for cell division protects mice infected with *Staphylococcus aureus* from death.

**Ecology**

Can Catch Shares Prevent Fisheries Collapse?  
C. Costello, S. D. Gaines, J. Lynham

Global catch statistics since 1950 suggest that fisheries will be half as likely to collapse if fishermen have a sustainability incentive through a guaranteed right of harvest.

**Evolution**

Parasite Treatment Affects Maternal Investment in Sons  
T. E. Reed et al.

Mother seabirds that are infected by parasitic nematodes are less able to gather food and feed their fast-growing sons, shifting the sex ratio and affecting population viability.

**Developmental Biology**

Apoptotic Force and Tissue Dynamics During Drosophila Embryogenesis  
Y. Toyama et al.

During development, programmed cellular death within sheets of cells can generate forces that accelerate tissue fusion; a similar process may apply to wound healing.

**Medicine**

Clusters of Hyperactive Neurons Near Amyloid Plaques in a Mouse Model of Alzheimer’s Disease  
M. A. Busche et al.

In a mouse model of Alzheimer’s disease, neurons close to the characteristic deposits of amyloid show high activity, in contrast to the overall reduction in brain function.

**Neuroscience**

Reward-Predictive Cues Enhance Excitatory Synaptic Strength onto Midbrain Dopamine Neurons  
G. D. Stuber et al.

When a rat learns to associate a cue with a reward, dopamine-containing neurons in the midbrain acquire an enhanced response to that cue through the action of glutamate.
Mouthful.

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RESEARCH ARTICLE: Structural Basis of CXCR4 Sulfotyrosine Recognition by the Chemokine SDF-1/CXCL12
The structure of SDF-1 bound to an extracellular domain of CXCR4 illustrates how chemokines recognize receptor sulfotyrosines and helps to identify an inhibitor of leukocyte chemotaxis.

PROTOCOL: Analysis of Signaling Events by Combining High-Throughput Screening Technology with Computer-Based Image Analysis
M. Kodiha, C. M. Brown, U. Stochaj
High-throughput screening and MetaXpress software modules can be adapted to quantify the subcellular localization of fluorescently labeled molecules.

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S. Carpenter
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