BREVIA

815  Type 6 Secretion Dynamics Within and Between Bacterial Cells
M. Basler and J. J. Mekalanos
Time-lapse video records a bacterial protein transportation machine in action.

RESEARCH ARTICLE

816  A Programmable Dual-RNA–Guided DNA Endonuclease in Adaptive Bacterial Immunity
M. Jinek et al.
A prokaryotic RNA–directed targeting system can be designed to cleave any DNA sequence.

REPORTS

821  Long-Range Incommensurate Charge Fluctuations in (Y,Nd)Ba₂Cu₃O₆+x
G. Ghiringhelli et al.
Scattering experiments uncover an order competing with superconductivity in a cuprate family.

825  Long-Range Ordered Carbon Clusters: A Crystalline Material with Amorphous Building Blocks
L. Wang et al.
Amorphous carbon clusters can be constructed into a crystalline material.

828  Camouflage and Display for Soft Machines
S. A. Morin et al.
Soft robots with microfluidic channels in a skin layer show camouflaging abilities.

832  Mixed-Phase Oxide Catalyst Based on Mn–Mullite (Sm, Gd)Mn₂O₅ for NO Oxidation in Diesel Exhaust
W. Wang et al.
Costly platinum catalysts for removing nitrogen oxide pollutants could potentially be replaced with metal oxide catalysts.

835  UV Dosage Levels in Summer: Increased Risk of Ozone Loss from Convectively Injected Water Vapor
J. G. Anderson et al.
Convective injection of water vapor into the stratosphere increases the rate of ozone destruction there.

839  Circadian Rhythm of Redox State Regulates Excitability in Suprachiasmatic Nucleus Neurons
T. A. Wang et al.
Diurnal metabolic changes in circadian clock neurons are coupled to changes in potassium channel activity.

843  Identification of the Cdc48•20S Proteasome as an Ancient AAA+ Proteolytic Machine
D. Barthelme and R. T. Sauer
The AAA+ enzyme Cdc48 combines with the 20S peptidase to function as an alternative type of proteasome.

846  The Double-Edged Sword: Does Biomechanism Increase or Decrease Judges’ Sentencing of Psychopaths?
L. G. Aspinwall et al.
An empirical study of sentencing judgments suggests that perceived biological predisposition induces leniency.

849  Hippocampal Place Fields Emerge upon Single-Cell Manipulation of Excitability During Behavior
D. Lee et al.
Nonspatial, cellular factors can play a decisive role in how neurons respond to inputs in awake behaving animals.

853  Neural Representations of Location Composed of Spatially Periodic Bands
J. Krupic et al.
The brain performs a Fourier analysis of space to produce the representations of space in and around the hippocampus.

857  A TOG:αβ- tubulin Complex Structure Reveals Conformation-Based Mechanisms for a Microtubule Polymerase
P. Ayaz et al.
Conformation-selective interactions with microtubule subunits explain how assembly enzymes recognize the growing end.

860  A Mechanism of Extreme Growth and Reliable Signaling in Sexually Selected Ornaments and Weapons
D. J. Emlen et al.
Rhinoceros beetle horns, a sexually selected weapon, are more sensitive to nutrition and reliably indicate male quality.