REVIEW

1309  Rinderpest Eradication: Appropriate Technology and Social Innovations
       J. C. Mariner et al.

BREVIA

1313  Adaptive Prolonged Postreproductive Life Span in Killer Whales
       E. A. Foster et al.
       Killer whale mothers continue to help their adult male offspring to survive long after
       ceasing reproduction.
       >> Science Podcast

REPORTS

1314  Octet-Line Node Structure of Superconducting Order Parameter in KFe$_2$As$_2$
       K. Okazaki et al.
       Laser-based photoemission spectroscopy is used to map out the pairing gap of an
       iron-based superconductor.

1318  Relaxation and Prethermalization in an Isolated Quantum System
       M. Gring et al.
       Two halves of a split ultracold gas of rubidium atoms retain memory of the
       initial state for an extended time.

1322  Oxidative Aliphatic C-H Fluorination with Fluoride Ion Catalyzed by a Manganese Porphyrin
       W. Liu et al.
       A catalyst introduces fluorine in a convenient, mild fashion to a range of relatively inert
       hydrocarbons.

1326  Bond-Order Discrimination by Atomic Force Microscopy
       L. Gross et al.
       Images detected with an atomic force microscope tip decorated with a carbon
       monoxide molecule could distinguish Pauling bond order.
       >> Perspective p. 1305

1330  Glacier Extent During the Younger Dryas and 8.2-ka Event on Baffin Island, Arctic Canada
       N. E. Young et al.
       Cooling during the event that occurred 8.2 thousand years ago was less extreme
       but more evenly distributed across the seasons than during the Younger Dryas.

1333  Initiation of Cell Wall Pattern by a Rho- and Microtubule-Driven Symmetry Breaking
       Y. Oda and H. Fukuda
       A Rho guanosine triphosphatase–based regulatory mechanism reveals how plants
       remodel membranes and cell walls to produce various cell shapes.

1336  A Killer-Protector System Regulates Both Hybrid Sterility and Segregation Distortion in Rice
       J. Yang et al.
       A genetic locus containing three protein-coding genes underlies the system causing hybrid
       sterility among rice species.

1340  Single Reconstituted Neuronal SNARE Complexes Zipper in Three Distinct Stages
       Y. Gao et al.
       Zippering of a single SNARE complex generates high force and energy that can
       potentially drive synaptic membrane fusion.
       >> Perspective p. 1300

1343  Highly Conserved Protective Epitopes on Influenza B Viruses
       C. Dreyfus et al.
       Three broadly neutralizing human monoclonal antibodies protect mice against influenza B.

1348  Structural Probing of a Protein Phosphatase 2A Network by Chemical Cross-Linking and Mass Spectrometry
       F. Herzog et al.
       Spatial restraints revealed by chemical cross-linking and mass spectrometry elucidate
       the topology of a dynamic signaling network.

1353  Global Gene Deletion Analysis Exploring Yeast Filamentous Growth
       O. Ryan et al.
       Yeast genes involved in the dimorphic switch between cell budding and filamentous growth
       types are identified.

1357  A Critical Period for Social Experience–Dependent Oligodendrocyte Maturation and Myelination
       M. Makinodan et al.
       In mice, early social experience regulates prefrontal cortex myelination that is essential
       for normal cognitive development.

1360  Active DNA Demethylation in Plant Companion Cells Reinforces Transposon Methylation in Gametes
       C. A. Ibarra et al.
       Activation of transposable elements in the companion cells of plant gametes can silence
       transposable elements in the gamete.

CONTENTS continued >>
Focal adhesions and invadopodia.

**SCIENCE**

**www.sciencemag.org**

**SCIENCEEXPRESS**

Dynamics of DNA Supercoils

M. T. J. van Loenhout et al.

The movement of intertwined loops, or plectonemes, along a twisted DNA molecule was visualized.

10.1126/science.1225810

Cilia at the Node of Mouse Embryos Sense Fluid Flow for Left-Right Determination via Pkd2

S. Yoshida et al.

A Ca\(^{2+}\) channel implicated in polycystic kidney disease helped to establish the left-right body axis of the mammalian embryo.

10.1126/science.1222538

**SCIENCEONLINE**

**SCIENCEONLINE**

Focal adhesions and invadopodia.

**SCIENCEEXPRESS**

**www.sciencemag.org**

**SCIENCEEXPRESS**

**www.sciencemag.org**

**SCIENCEONLINE**

Focal adhesions and invadopodia.

**SCIENCEONLINE**

**www.sciencemag.org**

**SCIENCEONLINE**

Focal adhesions and invadopodia.

**SCIENCEONLINE**

**www.sciencemag.org**

**SCIENCEONLINE**

Focal adhesions and invadopodia.