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COVER
Corals such as this 150-million-year-old colony of
Thecosmilia trichotoma (with oyster Actinostreon attached)
from southern Germany formed reefs during most of the
Phanerozoic eon. These reefs harbored tremendous biodiversity
that was subsequently exported to non-reef habitats.
See page 196.

Photo: Antje Dittmann and Carola Radke/Museum für Naturkunde,
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S. A. Kawashima et al.
Phosphorylation of the chromatin protein histone H2A plays a critical role in chromosome segregation during cell division.

177 Quantum Criticality in an Ising Chain: Experimental Evidence for Emergent E8 Symmetry
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A long-predicted hidden symmetry in spin ordering has been observed experimentally at temperatures near absolute zero.

181 Nematic Electronic Structure in the “Parent” State of the Iron-Based Superconductor Ca(Fe1−xCox)2As2
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190 E-Type Asteroid (2867) Steins as Imaged by OSIRIS on Board Rosetta
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Incident sunlight probably caused this asteroid to spin, which redistributed its mass and smoothed its surface.

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Insects mate only with those that can sing with them in perfect harmony.

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Mosquitoes: Love at First Buzz

Insects mate only with those that can sing with them in perfect harmony.

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MicroRNAs may serve as prime targets for new life-saving therapies for patients with liver disease.

RESEARCH ARTICLE: Impaired \( \alpha_{\text{IIIb}}\beta_{1} \) Integrin Activation and Shear-Dependent Thrombus Formation in Mice Lacking Phospholipase D1

M. Elvers et al.

In the absence of PLD1, platelets do not form stable aggregates under high shear conditions.

PERSPECTIVE: New Endogenous Regulators of Class I Histone Deacetylases

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COMMENTARY: Biotechnology—Delivering on the Promise

J. C. Greenwood

Biotechnology offers concrete hope for biomedical innovation.

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The Signal Transduction Knowledge Environment

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RESEARCH ARTICLE: Modeling an Anti-Amyloid Combination Therapy for Alzheimer’s Disease

V. W. Chow et al.

Simultaneous reduction of two enzymes involved in Alzheimer’s disease ameliorates symptoms in aged mice.

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Science 327 (5962), 123-221.