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COVER
Saturn and its rings as seen by the Cassini orbiter. Saturn’s rings contain innumerable chunks of water ice polluted by material of varying color and composition. The massive B ring (bottom) and the tenuous C ring (closest to the planet) are dominated by unexplained structure. Saturn’s yellowish appearance signifies a deep cloud layer beneath seasonal haze. See pages 1470 and 1476.
Image: NASA/JPL/CICLOPS

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An ultrasmall laser is fabricated from conventional electronic components combined with an amplifying medium.
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1506 Seminal Fluid Mediates Ejaculate Competition in Social Insects
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1509 Patterns of Diversity in Marine Phytoplankton
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1512 Unicellular Cyanobacterial Distributions Broaden the Oceanic N₂ Fixation Domain
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Nitrogen fixation in the South Pacific Ocean is partitioned among several microbe species with distinct ecophysiology.

1515 A Critical Role for α₄βδ GABA_A Receptors in Shaping Learning Deficits at Puberty in Mice
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Learning incapacity observed during puberty is related to receptor location in the hippocampus.
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J. von Engelhardt et al.
A synaptic protein that regulates postsynaptic AMPA receptor responses has been cloned and functionally characterized.

1522 Circadian Gating of the Cell Cycle Revealed in Single Cyanobacterial Cells
Q. Yang et al.
Modeling and observation of cyanobacteria show entrainment of the cell cycle by their biological clock.
The brain’s overreaction to rewards may lead to impulsive, antisocial behavior.
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