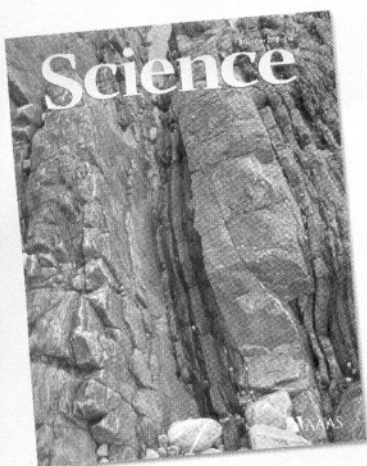




COVER

Ordovician sedimentary rocks at Presqu'île de Crozon, Brittany, France. These rocks show high-frequency cycles of less than 500,000 years between bay and open marine conditions. This and similar records allow reconstruction of global sea level from 550 to 250 million years ago. The pink boulder at the bottom is about 15 centimeters across. See page 64.

Photo: Bilal U. Haq

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www.sciencexpress.org

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10.1126/science.1161473

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Molecular Confinement Accelerates Deformation of Entangled Polymers During Squeeze Flow

H. D. Rowland, W. P. King, J. B. Pethica, G. L. W. Cross

When polymers are squeezed at nanometer scales, the longest chains unexpectedly flow more easily, even though in theory they should be the most entangled.

10.1126/science.1157945

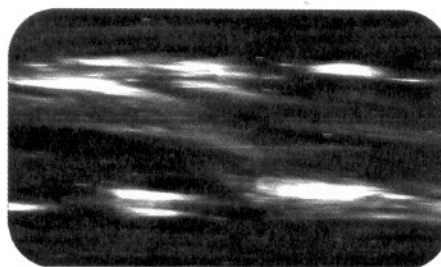
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M. J. Pearce, J. Mintseris, J. Ferreyra, S. P. Gygi, K. H. Darwin

A prokaryotic version of ubiquitin, a eukaryotic tag for protein degradation, is linked to lysines in prokaryotic proteins destined for destruction, a process called pupylation.

10.1126/science.1163885



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M. D. Fivian, H. S. Hudson, R. P. Lin, H. J. Zahid

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10.1126/science.1160863

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The ligand binding pocket of the caffeine-binding human adenosine receptor has a different position and orientation than that of other G protein-linked receptors.

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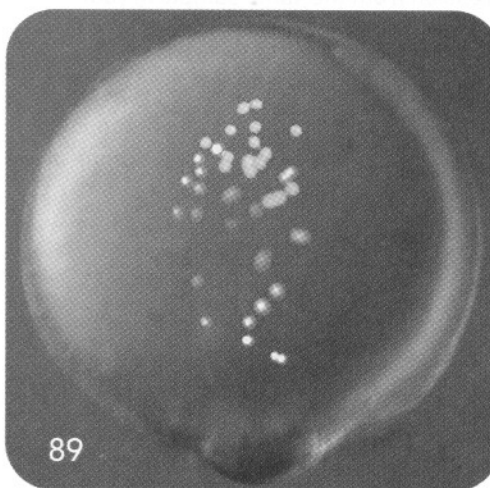
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