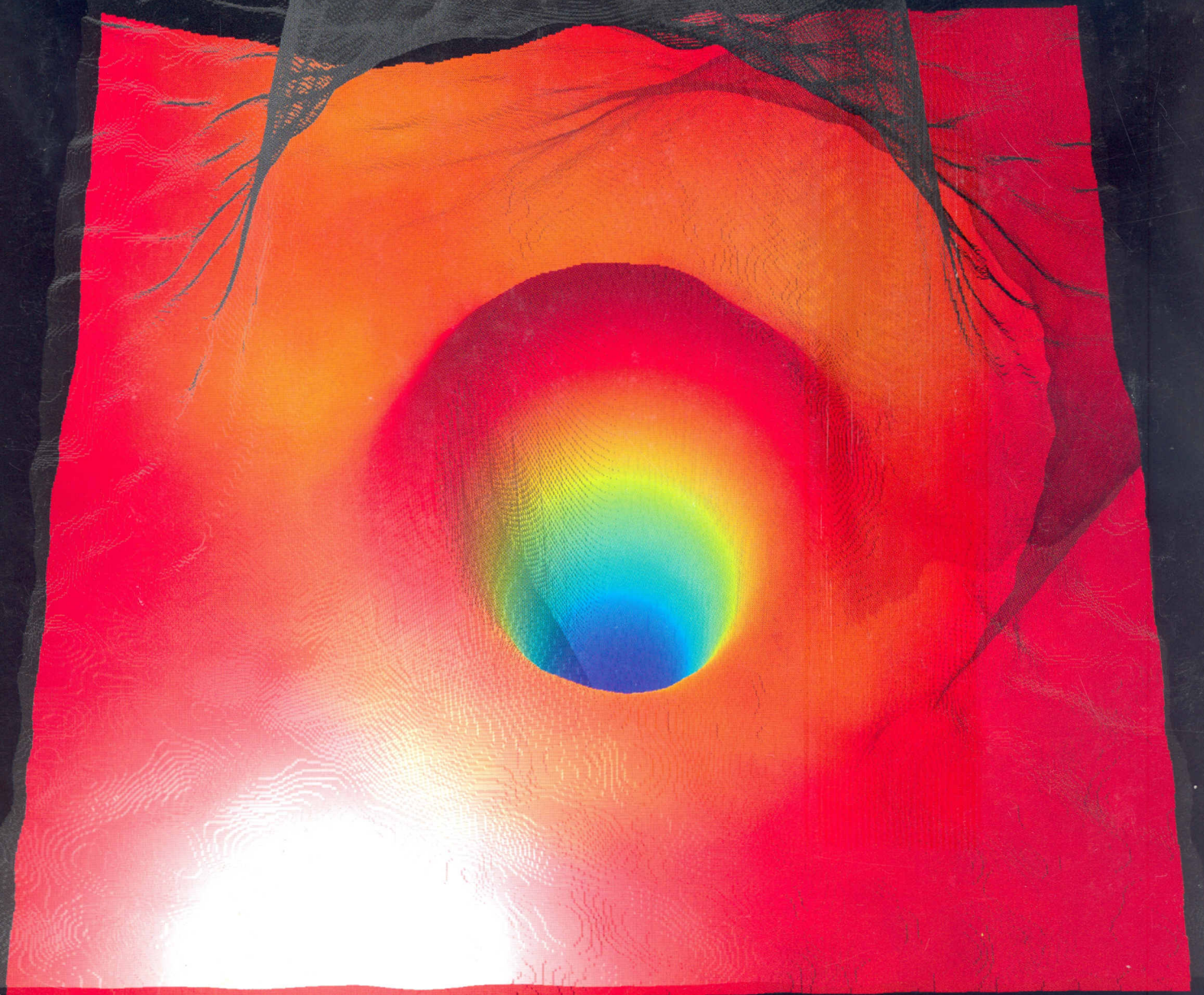


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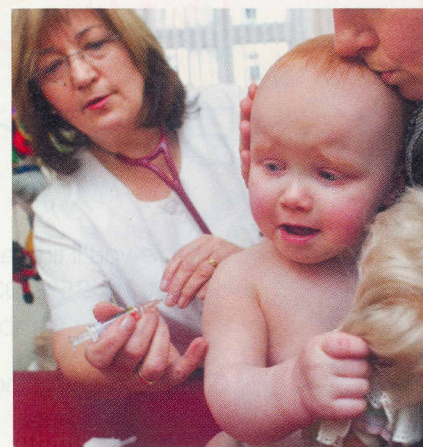
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Overlaid scanning tunneling and atomic force microscopy images of a single atom (width 1.3 nanometers): tunneling current (gray veil) and force (colored surface) between a tungsten atom and a carbon monoxide molecule. The force shows a strong angular dependence and is attractive (blue minimum) in one direction and repulsive (dark red crescent) in others. The angular dependence of single chemical bonds determines the shape of molecules and crystals. See page 444.

Image: Joachim Welker, University of Regensburg

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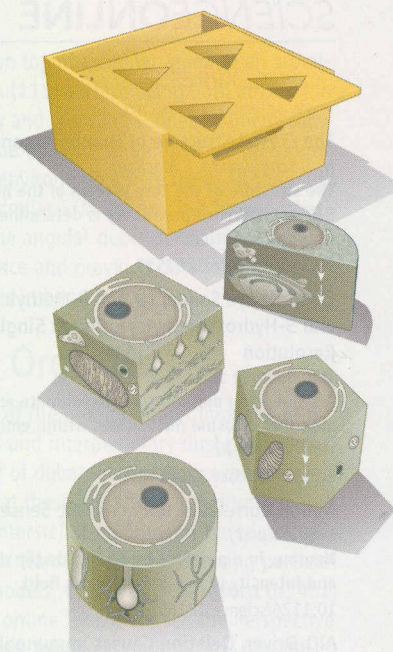
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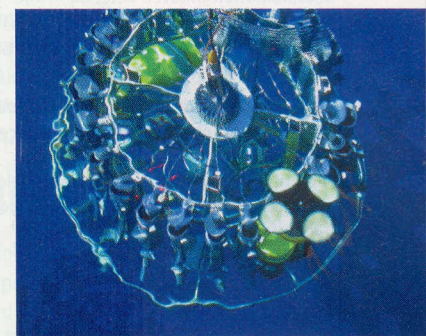
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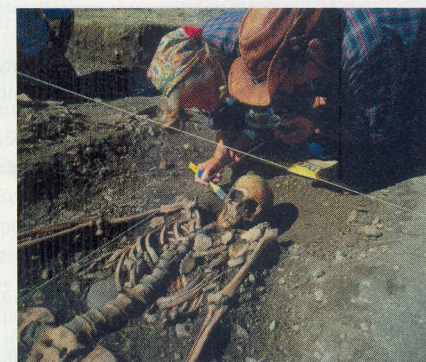
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The Crystal Structure of Human Argonaute2

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A sequencing method can discriminate epigenetically modified cytosine nucleotides within embryonic stem cell DNA.

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Comment on "Universality in the Evolution of Orientation Columns in the Visual Cortex"

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Full text at www.sciencemag.org/cgi/content/full/336/6080/413-c

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Full text at www.sciencemag.org/cgi/content/full/336/6080/413-d

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RESEARCH ARTICLE: Differential β -Arrestin-Dependent Conformational Signaling and Cellular Responses Revealed by Angiotensin Analogs

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The conformational changes induced in β -arrestin by angiotensin II analogs dictate the cellular response.

RESEARCH RESOURCE: Studying the Dynamics of SLP-76, Nck, and Vav1 Multimolecular Complex Formation in Live Human Cells with Triple-Color FRET

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The formation of a multiprotein complex in response to T cell activation is monitored in live cells.

PERSPECTIVE: Linking NAADP to Ion Channel Activity—A Unifying Hypothesis

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JOURNAL CLUB: The Role of EHD Proteins at the Neuronal Synapse

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EHD proteins promote synaptic vesicle formation by limiting the extent of dynamin helix formation.

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25 April issue: <http://scim.ag/stm042512>

RESEARCH ARTICLE: Looking Beyond Historical Patient Outcomes to Improve Clinical Models

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FOCUS: Tweaking the Social Network

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Before you pick up that next thriller novel, remember that scientists are not exactly as they are often portrayed.

<http://scim.ag/HWU12v>

In Person: Consulting for Career Enhancement

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A group of grad students and postdocs has created a successful nonprofit consulting group to improve their private-sector employment prospects.

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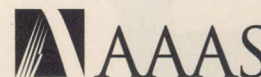
On the 27 April Science Podcast: synchronizing optical clocks, the spread of Neolithic farming in Europe, a measles resurgence, and more.

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