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Scheme of a photonic metamaterial composed of three-dimensional gold helices, each about 1.4 micrometers in diameter, fading to an oblique-view electron micrograph of the helices as fabricated (blue). The illuminated spiral symbolizes circularly polarized light impinging on the chiral metamaterial. The structure works as a circular polarizer for a frequency range exceeding one octave. See page 1513.
Illustration: Michael S. Rill (structure fabrication by Justyna K. Gansel and Michael Thiel)

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Marine records suggest that the early onset of the penultimate deglaciation was due to changes in Earth’s obliquity.

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Three bright light beams of different colors can be entangled.
10.1126/science.1178683
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A. A. Salahudeen et al.
A vertebrate hemerythrin domain in an E3 ubiquitin ligase complex senses and regulates cellular iron levels.
10.1126/science.1176326

SCIENCEEXPRESS
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Tyranosaurid Skeletal Design First Evolved at Small Body Size
P. C. Sereno et al.
The distinct features of Tyrannosaurs, such as their large skull and tiny arms, appear in an earlier small-bodied species.
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RESEARCH ARTICLE: Differential Interactions of FGFs with Heparan Sulfate Control Gradient Formation and Branching Morphogenesis
H. P. Makarenkov et al.
Manipulation of the interaction of a morphogen with the extracellular matrix changes its biological activities by altering its diffusion.

RESEARCH ARTICLE: Tks5-Dependent, Nox-Mediated Generation of Reactive Oxygen Species Is Necessary for Invadopodia Formation
B. Diaz et al.

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PERSPECTIVE: Regulation of Cancer Invasion by Reactive Oxygen Species and Tks Family Scaffold Proteins
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PERSPECTIVE: Endocannabinoids Can Open the Pain Gate
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NETWATCH: PhosphoPep
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Calculate commonly used physical and chemical parameters for a protein of interest; in Technical Information.

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Free Career Resources for Scientists
A Physicist Finds a Rewarding Career in Charity
V. Raper
Physicist Lucy Heady now pursues a career solving social problems.

Tooling Up: The Regulatory Affairs Career Track
D. Jensen
Regulatory affairs specialists play a key role in getting drugs to market.

Pushing the Regulatory Agenda on Adult Stem Cells
E. Pain
Maria Pascual has influenced European policy on adult stem cell drug development.

APhysicist Finds a Rewarding Career in Charity
V. Raper
Physicist Lucy Heady now pursues a career solving social problems.
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