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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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1515 Control of Spin Precession in a Spin-Injected Field Effect Transistor
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1518 Memory Metamaterials
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1525 An Anomalous Basaltic Meteorite from the Innermost Main Belt
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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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A. A. Salahudeen et al.
10.1126/science.1176326

Three-Color Entanglement
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Three bright light beams of different colors can be entangled.
10.1126/science.1178683

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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.
10.1126/science.1177428

Technique Comments
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Highlights From Our Daily News Coverage
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Simulations argue that turning the Sahara into a forest could help fight climate change.
A Mystery in the Desert
Four disfigured skulls are traced back to an ancient killer.
Birth Control for Stars
Study reveals that magnetic fields play an essential role in star formation.

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Research Article: Differential Interactions of FGFRs with Heparan Sulfate Control Gradient Formation and Branching Morphogenesis
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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
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Research Article: Novel p47phox-Related Organizers Regulate Localized NADPH Oxidase 1 (Nox1) Activity
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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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Endocannabinoids generated in the spinal cord can enhance pain responses instead of relieving pain.

NetWatch: PhosphoPep
Access phosphoproteomic data from yeast, worm, fly, and human; in Protein Databases.

NetWatch: ProtParam
Calculate commonly used physical and chemical parameters for a protein of interest; in Technical Information.

Science Careers
www.sciencemag.org/career_magazine
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A Physicist Finds a Rewarding Career in Charity
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Tooling Up: The Regulatory Affairs Career Track
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Regulatory affairs specialists play a key role in getting drugs to market.
Pushing the Regulatory Agenda on Adult Stem Cells
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Maria Pascual has influenced European policy on adult stem cell drug development.

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