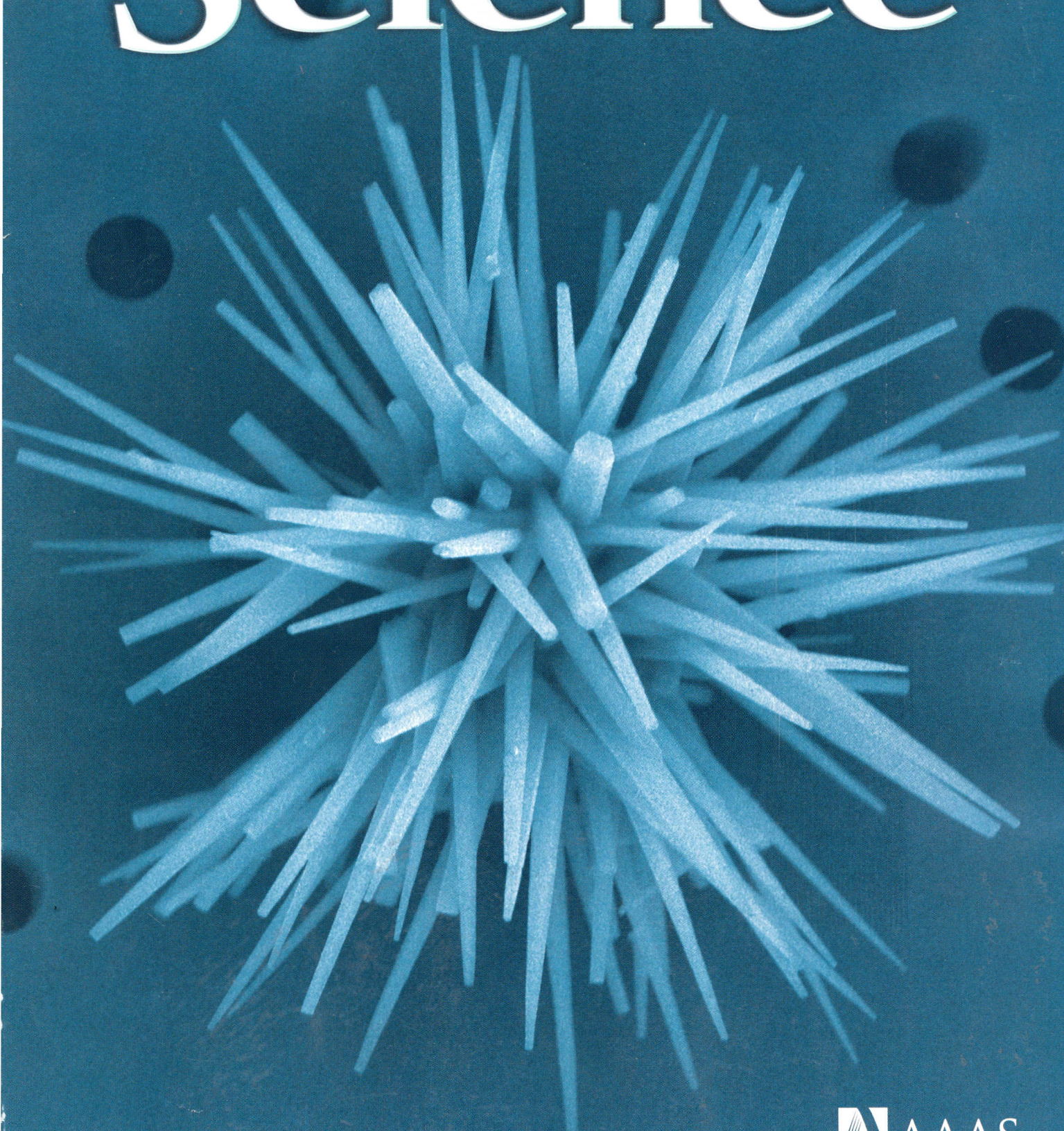


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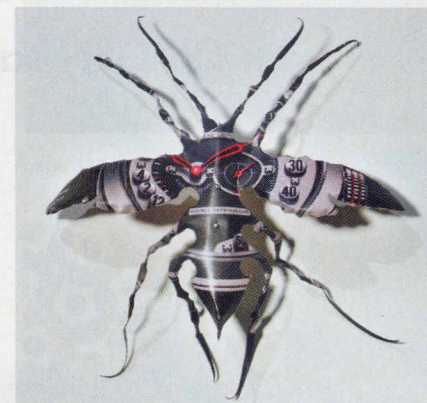
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False-color scanning electron microscopy image of a cluster of L-cystine crystals captured on a porous filtration membrane after growth in the presence of a growth inhibitor. The tapered needles result from binding of the inhibitor at the crystal surface, which reduces the crystal growth rate and the crystal size (the cluster is ~95 μm across). This suggests that inhibitors might be designed to prevent or limit the formation of L-cystine kidney stones. See page 337.

Image: Zhihua An and Timothy G. Bromage/New York University

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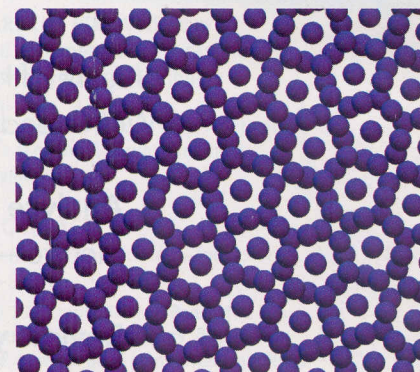
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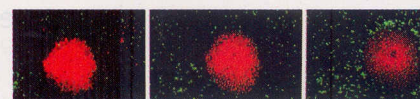
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Broken-Symmetry States in Doubly Gated Suspended Bilayer Graphene

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10.1126/science.1194988

Spin-Light Coherence for Single-Spin Measurement and Control in Diamond

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Optical pulses were used to nondestructively probe and manipulate the spin state of nitrogen vacancy defects in diamond.

10.1126/science.1196436

A Low-Magnetic-Field Soft Gamma Repeater

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A neutron star lacking a strong magnetic field can still emit short bursts of high-energy radiation.

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A Tool for Cancer Gene Discovery in Mice

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Mutations induced by a transposable element in mice can be used to identify cancer-causing genes.

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The Role of Discharge Variation in Scaling of Drainage Area and Food Chain Length in Rivers

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The lengths of river food chains are indirectly related to drainage area and directly affected by flow and discharge.

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Comment on "Narrow Primary Feather Rachises in *Confuciusornis* and *Archaeopteryx* Suggest Poor Flight Ability"

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Full text at www.sciencemag.org/cgi/content/full/330/6002/320-b

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Full text at www.sciencemag.org/cgi/content/full/330/6002/320-c

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R. L. Nudds and G. J. Dyke

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EDITORIAL GUIDE: Focus Issue—Endocrine Signaling from Clinic to Cell

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Understanding the molecular details of the response to endocrine hormones should improve treatment options and approaches.

RESEARCH ARTICLE: Sexually Dimorphic Actions of Glucocorticoids Provide a Link to Inflammatory Diseases with Gender Differences in Prevalence

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PERSPECTIVE: Stress and Sex Versus Immunity and Inflammation

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Males and females show different responses to stress and to the anti-inflammatory actions of glucocorticoids.

MEETING REPORT: Signal Transduction in Child Health—Closing the Gap Between Clinical and Basic Research

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The New Inroads to Child Health Conference focused on plasma membrane receptor-mediated pathways involved in endocrine signaling.

REVIEW: G Protein–Coupled Receptors in Child Development, Growth, and Maturation

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PRESENTATION: Hormone Resistance at the Clinical Level

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Molecular defects at various steps in hormone production, signaling, or responsiveness can cause disease.

SCIENCECAREERS

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Free Career Resources for Scientists

Tooling Up: Choosing the Best Fit

D. Jensen

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R. Pidcock

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COMMENTARY: Strategies for Translational Research in the United Kingdom

K. Soderquest and G. M. Lord

Heavy investment in UK translational research has improved infrastructure and advanced clinical medicine.

PERSPECTIVE: Network Dynamics to Evaluate Performance of an Academic Institution

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A research collaboration network helps in assessing an institution receiving a translational science award.

RESEARCH ARTICLE: A Defined Tuberculosis Vaccine Candidate Boosts BCG and Protects Against Multidrug-Resistant *Mycobacterium tuberculosis*

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A fusion peptide vaccine of four *Mycobacterium tuberculosis* proteins boosts an existing vaccine and protects against drug-resistant TB.

RESEARCH ARTICLE: PTEN Deficiency in Endometrioid Endometrial Adenocarcinomas Predicts Sensitivity to PARP Inhibitors

K. J. Dedes et al.

Endometrial cancer cells lacking the PTEN tumor suppressor are sensitive to drugs that block the PARP enzyme.

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