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MATERIALS SCIENCE
Dislocation-Driven Nanowire Growth and Eshelby Twist
A screw dislocation drives the growth of a nanowire pine tree, in which branches regularly extend from the trunk in a spiral, confirming Eshelby’s theory of dislocations. 10.1126/science.1157131

MEDICINE
A Polymorphism Within the G6PC2 Gene Is Associated with Fasting Plasma Glucose Levels
N. Bouatia-Naji et al.
Variation in a gene for a protein in the pancreas may help explain why people have different levels of fasting blood glucose, a factor that affects disease risk. 10.1126/science.1156849

TECHNICAL COMMENT ABSTRACTS
APPLIED PHYSICS
Comment on “Long-Lived Giant Number Fluctuations in a Swarming Granular Nematic”
I. S. Aranson, A. Snezhko, J. S. Olafsen, J. S. Urbach
full text at www.sciencemag.org/cgi/content/full/320/5876/612c
Response to Comment on “Long-Lived Giant Number Fluctuations in a Swarming Granular Nematic”
V. Narayan, S. Ramaswamy, N. Menon
full text at www.sciencemag.org/cgi/content/full/320/5876/612d

REVIEW
GEOGRAPHICS
Structure and Dynamics of Earth’s Lower Mantle
E. J. Garnero and A. K. McNamara

MOLECULAR BIOLOGY
The Transcriptional Landscape of the Yeast Genome Defined by RNA Sequencing
U. Nagalakshmi et al.
A more complete catalog of transcribed DNA of yeast is assembled by shotgun sequencing of messenger RNA and reveals numerous previously unknown transcribed regions. 10.1126/science.1158441

CELL BIOLOGY
The Serine Protease TMPRSS6 Is Required to Sense Iron Deficiency
X. Du et al.
A cell-surface enzyme that cleaves proteins is unexpectedly necessary for sensing when iron levels are low and thereby triggering compensatory absorption of iron from food. 10.1126/science.1157121

BREVIA
CLIMATE CHANGE
Fire-Derived Charcoal Causes Loss of Forest Humus
D. A. Wardle, M.-C. Nilsson, O. Zackrisson
Charcoal enhances the microbial activity in soils, which in turn decreases the amount of carbon and humus in forests over time.

RESEARCH ARTICLES
NEUROSCIENCE
A Specialized Forebrain Circuit for Vocal Babbling in the Juvenile Songbird
D. Aronov, A. S. Andalman, M. S. Fee
The babbling of young zebra finches learning to sing is produced by a brain region distinct from the adult song center, a pattern that may also apply to other motor systems.

MATERIALS SCIENCE
High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys
B. Poudel et al.
Milling a thermoelectric alloy, which produces electricity from a thermal gradient, into a nanopowder, then pressing it into a bulk form, greatly improves its performance.

REPORTS
PHYSICS
Coherent Control of Decoherence
M. P. A. Branderhorst et al.
Iterative shaping of a laser pulse using feedback from a fluorescence signal extends the phase stability of a molecular vibration in the face of rotational jostling.

PHYSICS
Strong Interactions in Multimode Random Lasers
H. E. Türeci, L. Ge, S. Rotter, A. D. Stone
A theoretical approach describes lasing in strongly disordered media where multiple excitation modes may switch on and off to emit light over a range of wavelengths. >> Perspective p. 623
Innate Immunity to A Haptoglobin-Hemoglobin Receptor Conveys Innate Immune Activation Through Nalp3 Innate Immunity to Trypanosoma brucei in Humans B. Vanhollebeke et al.

A lipoprotein in human blood protects against an African parasite by binding to a parasite receptor and triggering uptake of the lipoprotein, which contains a toxic component.
The neuropeptide VGF appears to play a role in the antidepressant effects of exercise, the neurotrophic factor BDNF, and the neurotransmitter serotonin.

**Synaptic Patterning by Morphogen Signaling**

W. R. Williamson and P. R. Hiesinger

The morphogen Activin acts as a permissive and local motility restriction signal around individual photoreceptor terminals.

**Podcast**

E. M. Adler and A. M. VanHook

Some glial cells can generate action potentials and are hypersensitive to ischemic injury.