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A Unified Picture of Laser Physics J. Bravo-Abad and M. Soljačić

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COVER
Graphic representation of an integrated quantum optics controlled-NOT chip.
Single photons (represented as flashes) propagate on the chip, confined by silica waveguides, and are then coupled into optical fibers for detection. See page 646.
Image: W. Amery/Bristol University

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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

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
In Vivo Imaging of Membrane-Associated Glycans in Developing Zebrafish

S. T. Laughlin, J. M. Baskin, S. L. Amacher, C. R. Bertozzi

Imaging of cell-surface sugars in developing zebrafish reveals dramatic bursts of sugar production in the jaw, olfactory organ, and pectoral fin 60 to 72 hours after fertilization.
Exercise, a natural antidepressant.

**PERSPECTIVE: VGF, a New Player in Antidepressant Action?**

**J. E. Malberg and L. M. Monteggia**

The neuropeptide VGF appears to play a role in the antidepressant effects of exercise, the neurotrophic factor BDNF, and the neurotransmitter serotonin.

**PERSPECTIVE: 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.
Editor's Summary

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