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Mechanism of Self-Sterility in a Hermaphroditic Chordate
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The sea squirt prevents self-fertilization by using a tightly linked genetic locus to encode a sperm-egg receptor-ligand pair, a system similar to that used by flowering plants.
10.1126/science.1152488

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.
10.1126/science.1156446

TECHNICAL COMMENT ABSTRACTS
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B. P. Boudreau et al.
full text at www.sciencemag.org/cgi/content/full/319/5870/1616b
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A. Navrotsky, L. Mazeina, J. Majzlan

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Preparing and Motivating Behavior Outside of Awareness
H. Aarts, R. Custers, H. Marien
Encouraging words flashed on a screen so briefly that they are only perceived unconsciously can, nevertheless, increase the effort put into a subsequent test of strength.

RESEARCH ARTICLE
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Pattern Separation in the Human Hippocampal CA3 and Dentate Gyrus
A. Bakker, C. B. Kirwan, M. Miller, C. E. L. Stark
High-resolution imaging of the human brain reveals that, as seen in rodents, recognition of small differences in similar memories requires a particular region of the hippocampus. >> Perspective p. 1623

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Low-Magnetic-Field Control of Electric Polarization Vector in a Helimagnet
S. Ishiwata, Y. Taguchi, H. Murakawa, Y. Onose, Y. Tokura
The polarization of electrons in a complex iron oxide magnet can be manipulated using only a weak magnetic field, not a strong one as required in other systems.

MATERIALS SCIENCE
Observation of Giant Diffusivity Along Dislocation Cores
M. Legros, G. Dehm, E. Arzt, T. J. Balk
Observations on the movements of silicon atoms in a thin film of aluminum show that dislocations can align and act like a channel or pipe to greatly accelerate diffusion.

PLANETARY SCIENCE
Titan’s Rotation Reveals an Internal Ocean and Changing Zonal Winds
R. D. Lorenz et al.
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Spending Money on Others Promotes Happiness

A survey, a study of windfall spending, and a lab experiment all indicate that spending money on others results in more happiness than does spending money on oneself.
SCIENCE SIGNALING
www.stke.org THE SIGNAL TRANSDUCTION KNOWLEDGE ENVIRONMENT

EDITORIAL GUIDE: Hear It, Watch It, Read It
N. R. Gough
Four new sections of Science Signaling bring new resources to the cell signaling community.

MEETING REPORT: Watching Molecules Talking to Each Other
K. Friedrich, O. Janssen, R. Hass
The 2007 meeting of the Signal Transduction Society focused on results obtained using state-of-the-art imaging methodologies.

PRESENTATION: Matrix Metalloproteinase-7 and the 20S Proteasome Contribute to Cellular Senescence
C. Bertram and R. Hass
Two cultured cell systems provide insight into intracellular and extracellular events involved in cellular differentiation and senescence.

PRESENTATION: In Vivo Imaging of T Cell Priming
S. E. Henrickson et al.
History of prior antigenic experience controls T cell activation.

PRESENTATION: Geranylgeranylation but Not GTP-Loading of Rho GTPases Determines T Cell Function
S. Wozciesz, I. Bendix, F. Zipp
Posttranslational lipid modification of RhoA is necessary for T cell migration into the central nervous system during neuroinflammation.

SCIENCE CAREERS
www.sciencemag.org/CAREERS CAREER RESOURCES FOR SCIENTISTS

Public Health Goes Global
S. Webb
Scientists are needed with experience and expertise to address global health challenges.

Tooling Up: Breaking Free of Academia
D. Jensen
The cultural shift from academia to nonacademic workplaces requires careful self-assessment.

Ahead of Her Time
E. Pain
At age 24, Katerina Aifantis received a grant from the European Research Council to start an independent lab.

From the Archives: Thanks for the Great Postdoc Bargain
R. Freeman
The Harvard economist thanks postdocs for their skilled and diligent servitude.

SCIENCE PODCAST
Download the 14 March Science Podcast to hear about the evolution of human bipedalism, subliminal influence on behavior, and for farewell thoughts from senior news correspondent Jean Marx.

www.sciencemag.org/about/podcast.dtl

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