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Y. Harada et al.
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10.1126/science.1152488

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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

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Comment on "Physical Model for the Decay and Preservation of Marine Organic Carbon"
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full text at www.sciencemag.org/cgi/content/full/319/5870/1616b
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Pattern Separation in the Human Hippocampal CA3 and Dentate Gyrus
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Through strong selection, similar clusters of genes for triterpene biosynthesis have arisen independently through gene duplication and neofunctionalization in several plant lines.
10.1126/science.1154990

PLANT SCIENCE
Ancient Asteroids Enriched in Refractory Inclusions
Spectral data imply that some asteroids contain higher concentrations of early solar system grains and materials than are found in any sampled meteorite.
10.1126/science.1154340

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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. Woiczies, I. Bendix, F. Zipp
Posttranslational lipid modification of RhoA is necessary for T cell migration into the central nervous system during neuroinflammation.

Science Signaling researchers met in Weimar, Germany.

SCIENCE CAREERS

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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 Online Feature

THE GONZO SCIENTIST:
Play It Again, Robot
The fifth installment in this series, with accompanying video, investigates the state of the art of robot music.

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SCIENCEPODCAST

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