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**Cover**

Computer illustration of streams of matter delineating the network of cosmic voids, each tens of millions of light years across. Matter accumulates where the voids meet, forming a cosmic web of walls, filaments, and clusters of galaxies. This illustration was awarded first place in the informational graphics category in the 2011 Science/NSF International Science & Engineering Visualization Challenge. The winning entries are featured in a special section starting on page 525 and at www.sciencemag.org/site/special/vis2011/.

*Image: Miguel A. Aragon Calvo, Julieta Aguilera, Mark Subbarao*
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Field-Effect Tunneling Transistor Based on Vertical Graphene Heterostructures
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Boron nitride or molybdenum disulfide layers sandwiched between graphene sheets act as tunneling barriers to minimize device leakage currents.
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Extremely Long-Lived Nuclear Pore Proteins in the Rat Brain
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Comment on “Abiotic Pyrite Formation Produces a Large Fe Isotope Fractionation” A. D. Czaja et al.

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Killer Whale Menu Finally Revealed
Inuit hunters provide a glimpse of what these giant predators eat in the remote Arctic.
http://scim.ag/Killer_Whales

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RESEARCH ARTICLE: PAS Kinase Promotes Cell Survival and Growth Through Activation of Rho1
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PODCAST
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Signaling through PAS kinases bypasses the pro-growth requirement of Torz1 in yeast.

RESEARCH ARTICLE: Myosin I Links PIP3 Signaling to Remodeling of the Actin Cytoskeleton in Chemotaxis
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Some myosin motor proteins use the phospholipid PIP3, to link membrane and cytoskeletal dynamics.

ST NETWATCH: Mouse Genome Informatics
This site includes information about genes, phenotypes, and disease models.

SCIENCE TRANSLATIONAL MEDICINE
www.sciencetranslationalmedicine.org

Integrating Medicine and Science
1 February issue: http://scim.ag/stm020112

RESEARCH ARTICLE: Massage Therapy Attenuates Inflammatory Signaling After Exercise-Induced Muscle Damage
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RESEARCH ARTICLE: CXCL12-Induced Monocyte-Endothelial Interactions Promote Lymphocyte Transmigration Across an in Vitro Blood-Brain Barrier
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REPORT: The Anti-Trypanosome Drug Fexinidazole Shows Potential for Treating Visceral Leishmaniasis
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MEETING REPORT: Using Health Information Technology to Engage Communities
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MEETING REPORT: Real-Time Assessment of Community Health Needs and Concerns
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Interfacing the efforts of community health workers with Web-based systems will facilitate ongoing assessment of community needs.

MEETING REPORT: Geomapping Health-Related Data
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SCIENCE VOL 335 3 FEBRUARY 2012
Published by AAAS
335 (6068)

Science 335 (6068), 501-605.

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