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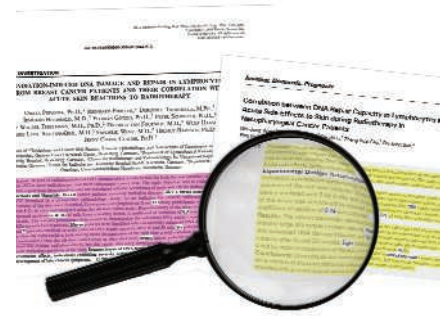
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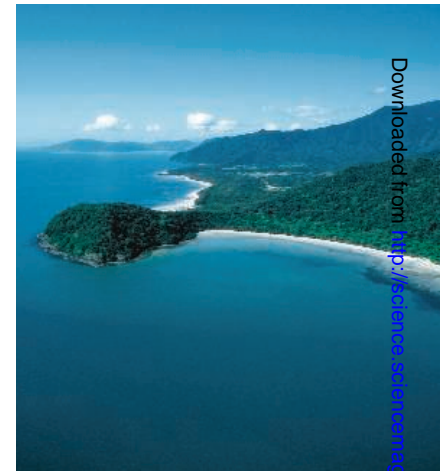
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Africa is the source of all modern humans. A genetic study of 121 populations from across the continent traces them back to 14 ancestral groups and documents the extent of diversity within and among African populations. See page 1035.

Image: Kaadaa/Corbis

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## REPORTS

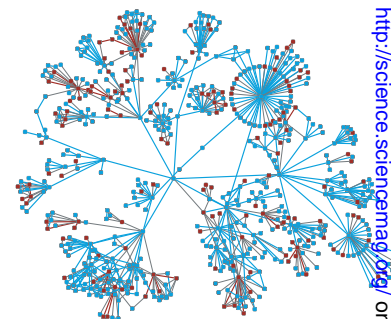
- 1044 Dispersion of the Excitations of Fractional Quantum Hall States  
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- 1051 Fabricating Genetically Engineered High-Power Lithium-Ion Batteries Using Multiple Virus Genes  
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- 1055 Greater Transportation Energy and GHG Offsets from Bioelectricity Than Ethanol  
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- 1084 The Human K-Complex Represents an Isolated Cortical Down-State  
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A characteristic electroencephalogram pattern seen during sleep is accompanied by a steep decline in neural activity.
- 1087 Crystal Structure of the Nuclear Export Receptor CRM1 in Complex with Snurportin1 and RanGTP  
*T. Monecke et al.*  
The structure of an exportin complex shows how nuclear transport complexes differentially recognize cargo.

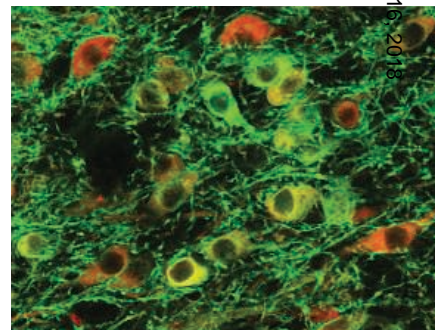
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## SCIENCEONLINE

## SCIENCEEXPRESS

[www.sciencexpress.org](http://www.sciencexpress.org)

**Germline P Granules Are Liquid Droplets That Localize by Controlled Dissolution/Condensation**  
C. P. Brangwynne et al.

Localization of RNA and protein-rich germ-cell granules occurs by controlled dissolution and condensation.  
10.1126/science.1172046

**Inhibition of Hedgehog Signaling Enhances Delivery of Chemotherapy in a Mouse Model of Pancreatic Cancer**

K. P. Olive et al.

Pancreatic tumors are unresponsive to chemotherapy because their limited vasculature precludes efficient drug delivery.

10.1126/science.1171362

**MicroRNA-92a Controls Angiogenesis and Functional Recovery of Ischemic Tissues in Mice**  
A. Bonauer et al.

Inhibition of a microRNA that represses blood vessel growth enhances the recovery of tissue damaged by an inadequate blood supply.

10.1126/science.1174381

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**A Radio Pulsar/X-ray Binary Link**

A. M. Archibald et al.

Radio observations reveal a system undergoing the transition from a low-mass x-ray binary star to a millisecond radio pulsar.

10.1126/science.1172740

>> [Science Podcast](#)

**Beryllium Dimer—Caught in the Act of Bonding**  
J. M. Merritt et al.

High-resolution spectroscopy maps out the unusual ground state electronic potential of the beryllium dimer.  
10.1126/science.1174326

## TECHNICALCOMMENTS

**Comment on “Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest”**

J. K. Lake and A. Ostling

full text at [www.sciencemag.org/cgi/content/full/324/5930/1015-c](http://www.sciencemag.org/cgi/content/full/324/5930/1015-c)

**Response to Comment on “Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest”**

N. J. B. Kraft and D. D. Ackerly

full text at [www.sciencemag.org/cgi/content/full/324/5930/1015-d](http://www.sciencemag.org/cgi/content/full/324/5930/1015-d)

## SCIENCENOW

[www.sciencenow.org](http://www.sciencenow.org)

Highlights From Our Daily News Coverage

**How Plants Survived Chernobyl**

Research sheds light on how soybeans and other vegetation respond to nuclear fallout.

**Designer Antibodies Derail Monkey AIDS Virus**

New “vaccine” approach could show promise for humans.

**That Bird Knows Who You Are**

Mockingbirds can pick a threatening person out of a crowd.

## SCIENCE SIGNALING

[www.sciencesignaling.org](http://www.sciencesignaling.org)

The Signal Transduction Knowledge Environment

**RESEARCH ARTICLE: Deciphering Signaling Outcomes from a System of Complex Networks**

R. C. Hsueh et al.

Despite exposure to multiple ligands, a macrophage cell line exhibits a surprisingly limited number of responses.

**RESEARCH ARTICLE: TRPM2 Functions as a Lysosomal Ca<sup>2+</sup>-Release Channel in  $\beta$  Cells**

I. Lange et al.

TRPM2-mediated Ca<sup>2+</sup> release from lysosomal stores contributes to pancreatic  $\beta$  cell death in response to oxidative stress.

**PERSPECTIVE: Limb Development Takes a Measured Step Toward Systems Analysis**

S. Mackem and M. Lewandoski

Gremlin links slow and fast signaling feedback loops, which contribute to robust regulation of mouse limb patterning.

## PODCAST

E. Oancea and A. M. VanHook

TRPM1 is a cation channel found on vesicular membranes and associated with melanin content in melanocytes.

**FORUM: Poster Award Winners from “Visualizing Immune System Complexity”**

N. R. Gough

Three students are recognized for their work at an EMBO workshop held at the Centre d’Immunologie de Marseille-Luminy in France in January 2009.

## E-LETTER: ACC Award

Science Signaling Editors

Naoki Sawada wins a Young Investigator Award from the American Academy of Cardiology for his *Science Signaling* Research Article.

## SCIENCE CAREERS

[www.sciencereers.org/career\\_magazine](http://www.sciencereers.org/career_magazine)

Free Career Resources for Scientists

**Academia or Industry? Finding the Right Fit**

E. Pain

Despite some limitations, there are still advantages for scientists in industry.

**Building a Science Career in the Defense Industry**

A. Saini

The defense industry offers opportunities that go beyond designing weapons and aircraft.

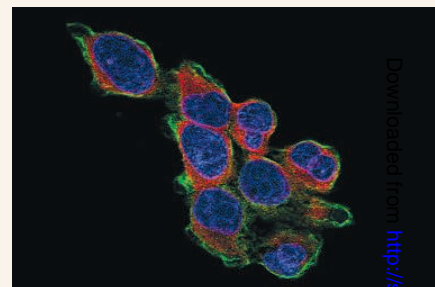
**Pharma Offers Bench-to-Bedside Opportunities**

K. Hede

Scientists in pharma say working in their industry is one way to improve human health.



SCIENCENOW  
Soy survivor.



SCIENCE SIGNALING  
TRPM2 in pancreatic  $\beta$  cells.

## SCIENCEPODCAST

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Free Weekly Show

Download the 22 May *Science* Podcast to hear about a microRNA that controls blood vessel growth, a neutron star transitioning to a radio pulsar, detecting scientific plagiarism, and more.

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[blogs.sciencemag.org/origins](http://blogs.sciencemag.org/origins)

A History of Beginnings

## SCIENCEINSIDER

[blogs.sciencemag.org/scienceinsider](http://blogs.sciencemag.org/scienceinsider)

Science Policy News and Analysis

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