

SCIENCE

CONTENIDO

VOLUME 334 No. 6056, NOVEMBER 2011

EDITORIAL

- 567 Understanding the Human Brain.
Sydney Brenner and Terrence J. Sejnowski.

NEWS OF THE WEEK

- 574 A roundup of the week's top stories.

NEWS & ANALYSIS

- 577 Panel Endorses Anthrax Vaccine Study in Children.
- 578 The Brain's Social Network.
>> *Report p. 697*
- 579 Psychologist Accused of Fraud on 'Astonishing Scale'.
- 581 Large African TB Study Reveals Powerful Strategy to Curb Disease.
- 582 **12th International Congress of Human Genetics.**
Life on the Fertile Frontier X-tra Diversity for Africans Diabetes Genes
Decline Out of Africa.

NEWS FOCUS

- 584 **Vigil at North Korea's Mount Doom.**
A Very Big Bang.
>> *Science Podcast.*
- 589 **Sharp Insights and a Sharp Tongue.**

LETTERS

- 593 Conservation: Limits of Land Sparing.
J. Fischer et al.
- Conservation: Model Management Intensity.
K. Hayashi.

Response.
B. Phalan et al.

594 TECHNICAL COMMENT ABSTRACTS

39 CORRECTIONS AND CLARIFICATIONS

BOOKS ET AL.

598 **The Copernican Question.**
R. S. Westman, reviewed by P. Dear.

600 **1493.**
C. C. Mann, reviewed by J. Farmer.

RESERCH ARTICLE

629 Porphyrin-Sensitized Solar Cells with Cobalt (II/III)-Based Redox Electrolyte Exceed 12 Percent Efficiency.
A. Yella et al.
Simultaneous modification of the dye and redox shuttle boosts the efficiency of a dye-sensitized solar cell.
>> *Perspective p. 607*

REPORTS

634 Structural Dynamics of a Catalytic Monolayer Probed by Ultrafast 2D IR Vibrational Echoes.
D. E. Rosenfeld et al.
A method to track fast vibrational motion in solution has been extended to catalytically important solid/liquid interface.

639 A Fluoride-Derived Electrophilic Late-Stage Fluorination Reagent for PET Imaging.
E. Lee et al.
A palladium compound facilitates rapid incorporation of radioactive fluoride into prospective tracers for medical imaging.

643 Ionic Liquid-Mediated Selective Conversion of CO₂ to CO at Low Overpotentials.
B. A Rosen et al.
Carbon dioxide reduction reactions, a key step in creating fuels from this gas, can be achieved in an ionic liquid.

645 Wireless Solar Water Splitting Using Silicon-Based Semiconductors and Earth-Abundant Catalysts.
S. Y. Reece et al.
An artificial water-splitting system was built using abundant materials and sunlight.

- 648 Hot Carrier-Assisted Intrinsic Photoresponse in Graphene.
N. M. Gabor et al.
Photoexcited electrons in grapheme remain thermally excited because they cannot transfer this energy to lattice vibrations.
>> *Perspective p. 610*
- 652 The Pace of Shifting Climate in Marine and Terrestrial Ecosystems.
M. T. Burrows et al.
Ecologically relevant measures of contemporary global climate change can predict species distributions and vulnerabilities.
>> *Perspective p. 613; Report p. 660*
- 655 Atmospheric Blocking and Atlantic Multidecadal Ocean Variability.
S. Häkkinen et al.
Changing ocean circulation patterns and sea surface temperatures affect atmospheric flow in the North Atlantic region.
>> *Perspective p. 612*
- 660 The influence of Late Quaternary Climate-Change Velocity on Species Endemism.
B. Sandel et al.
Regions with low glacial-interglacial climate-change velocity were essential refuges for many small-ranged species.
>> *Perspective p. 613; Report p. 652*
- 664 Long-Term Change in the Nitrogen Cycle of Tropical Forests.
P. Hietz et al.
The ratio of stable isotopes in leaves and wood reveals an increase in nitrogen availability in Panamanian and Thai tropical forests.
- 666 Neural Mechanisms for the Coordination of Suet Singing in Wrens.
E. S. Fortune et al.
The brains of duetting wrens encode the entire song and not just the contribution of the individual.
- 670 *Drosophila* Microbiome Modulates Host Developmental and Metabolic Homeostasis via Insulin Signaling.
S. C. Shin et al.
Successful development of fruit flies depends on a gut bacterium that interacts with its host's insulin-signaling pathway.
- 674 N-Terminal Acetylation Acts as an Avidity Enhancer Within an Interconnected Multiprotein Complex.
D. C. Scott et al.
Acetylation of an amino-terminal methionine is important for mediating specific protein-protein interactions.
- 678 mTORC1 Senses Lysosomal Amino Acids Through an Inside-Out Mechanism That Requires the Vacuolar H⁺-ATPase.
R. Zoncu et al.
Cellular sensing of amino acids occurs at the lysosome and is mediated by the vacuolar proton pump.
>> *Perspective p. 611*

- 683 RPA II CTD Phosphorylated in Threonine-4 Is Required for Histone mRNA 3' End Processing.
J-P Hsin et al.
Phosphorylation of a single conserved amino acid in higher eukaryotes plays a specific role in processing histone messenger RNA genes.
- 686 *Drosophila* CENH3 Is Sufficient for Centromere Formation.
M. J. Mendiburo et al.
A specific histone is sufficient for the formation of a functional and heritable centromere in the fruit fly.
- 690 Exercise and Genetic Rescue of SCA1 via the Transcriptional Repressor Capicua.
J. D. Frer et al.
Gentle exercise can ameliorate disease severity in a mouse model of a fatal neurodegenerative disease.
>> *Perspective p. 606*

DEPARTMENTS

- 563 **This Week in Science.**
- 569 **Editor's Choice.**
- 572 **Science Staff.**
- 705 **New Products.**
- 706 **Science Careers.**

COVER

Conceptual illustration of information, in the form of electrical impulses, flowing through neuronal processes within the brain. Fundamental aspects of neuroscience are based in the study of neurons and how they interact. An Editorial (p.567) and several Reviews (pp.618 and 623), Reports (pp. 690,693, and 697), and Perspectives (pp. 606 and 608) highlight current and future approaches in neuroscience research.

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