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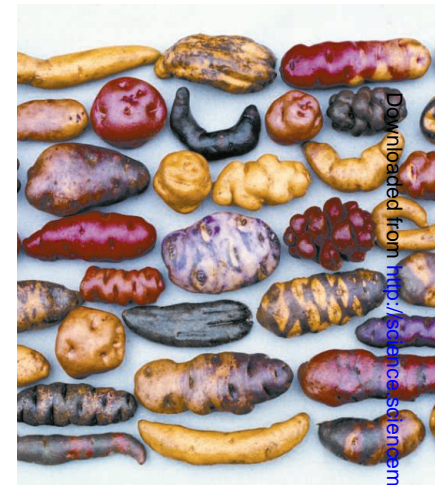
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COVER

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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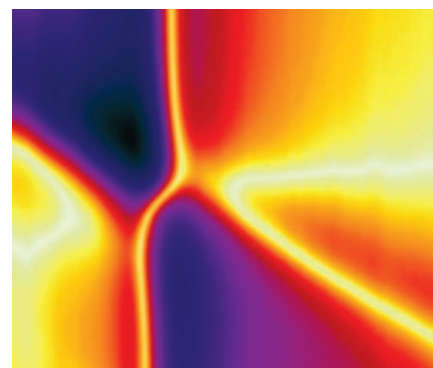
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10.1126/science.1207141

Crystal Structure of the Eukaryotic 60S Ribosomal Subunit in Complex with Initiation Factor 6

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The 3.5 angstrom-resolution structure provides insights into the architecture of the eukaryotic ribosome and its regulation.

10.1126/science.1211204

Entorhinal Cortex Layer III Input to the Hippocampus Is Crucial for Temporal Association Memory

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A specific neural circuit integrates temporally dispersed stimuli into a coherent memory episode.

10.1126/science.1210125

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10.1126/science.1212177

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10.1126/science.1212880

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10.1126/science.1216027

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Comment on "Atmospheric P_{CO_2} Perturbations Associated with the Central Atlantic Magmatic Province"

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Full text at www.sciencemag.org/cgi/content/full/334/6056/594-b

Response to Comment on "Atmospheric P_{CO_2} Perturbations Associated with the Central Atlantic Magmatic Province"

M. F. Schaller et al.

Full text at www.sciencemag.org/cgi/content/full/334/6056/594-c

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Happiness Associated With Longer Life

Among older people, upbeat moods could mean greater life span.

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Cover Your Ears!

Musicologists learn what makes chalkboard screeches so painful.

http://scim.ag/_chalkboard

The Case of the Haunted Golf Club

Does the 'spirit' of a previous owner of sports equipment carry over to new users?

http://scim.ag/_golfclub

SCIENCE SIGNALING

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The Signal Transduction Knowledge Environment

1 November issue: <http://scim.ag/ss110111>

RESEARCH ARTICLE: p53 and MicroRNA-34 Are Suppressors of Canonical Wnt Signaling

N. H. Kim et al.

The tumor suppressor p53 activates miRNA-34 to inhibit Wnt signaling and colorectal cancer cell invasiveness.

RESEARCH ARTICLE: A CC' Loop Decoy Peptide Blocks the Interaction between Act1 and IL-17RA to Attenuate IL-17- and IL-25-Induced Inflammation

C. Liu et al.

PODCAST

X. Li and A. M. VanHook

A cell-permeable peptide derived from an adaptor protein blocks cytokine receptor signaling and reduces inflammation.

RESEARCH ARTICLE: Persistent Stimulation with Interleukin-17 Desensitizes Cells Through SCF β -TrCP-Mediated Degradation of Act1

P. Shi et al.

Persistent inflammation may be prevented by degradation of an adaptor protein required for inflammatory cytokine receptor signaling.

SCIENCE TRANSLATIONAL MEDICINE

www.sciencetranslationalmedicine.org

Integrating Medicine and Science

2 November issue: <http://scim.ag/stm110211>

FOCUS: Epstein-Barr Virus—An Important Vaccine Target for Cancer Prevention

J. I. Cohen et al.

Epstein-Barr virus vaccine research should focus on the prevention of EBV-associated cancers and infectious mononucleosis.

PERSPECTIVE: Epigenetics of Nicotine—Another Nail in the Coughing

N. D. Volkow

Chronic nicotine exposure rewired the brains of rodents and enhanced their behavioral response to cocaine.

RESEARCH ARTICLE: Molecular Mechanism for a Gateway Drug—Epigenetic Changes Initiated by Nicotine Prime Gene Expression by Cocaine

A. Levine et al.

Nicotine changes the way brain cells respond to cocaine, possibly explaining how smoking acts as a gateway for cocaine abuse.

RESEARCH ARTICLE: Lipotoxicity Causes Multisystem Organ Failure and Exacerbates Acute Pancreatitis in Obesity

S. Navina et al.

Unsaturated fatty acids cause lipotoxicity and mediate acute adverse outcomes in obese individuals with pancreatitis.

RESEARCH ARTICLE: ALDH2 Activator Inhibits Increased Myocardial Infarction Injury by Nitroglycerin Tolerance

L. Sun et al.

Tolerance to nitroglycerin, a drug often used to treat chest pain, increases susceptibility to injury by myocardial infarction.

SCIENCE CAREERS

www.sciencemag.org/career_magazine

Free Career Resources for Scientists

Taken for Granted: Getting to Aaahhh!

B. L. Brenderly

A former postdoc finds a deeply satisfying career teaching high school.

http://scim.ag/tfg_teaching

Conquering Information Overload

S. A. Holgate

How can you keep from drowning in the sea of information your work depends on?

http://scim.ag/info_overload

In Person: At Summer Davos

M. Anand

At a world summit, a young scientist recognizes the importance of engaging real-world problems and the wider community.

http://scim.ag/Summer_Davos

SCIENCE PODCAST

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On the 4 November *Science* Podcast: social networks and brain structure, fertility at the range front, keeping vigil at Changbai-Paektu volcano, and more.

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Science Policy News and Analysis

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