



COVER

A bearded, horned terra cotta mask, about 5 centimeters in height, found at Mohenjo Daro, Pakistan. The artifact, which may have been attached to a puppet, offers a rare glimpse into the 5000-year-old Indus civilization. See page 1276.

Image: J. M. Kenoyer/Courtesy of the Department of Archaeology and Museums, Government of Pakistan

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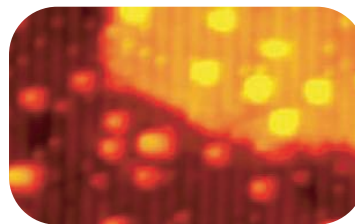
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BREVIA: Serotonin Modulates Behavioral Reactions to Unfairness
M. J. Crockett, L. Clark, G. Tabibnia, M. D. Lieberman, T. W. Robbins
 Individuals with low levels of brain serotonin are less likely to accept an unfair offer of money from other players in a laboratory game.

10.1126/science.1155577

ECOLOGY

Animal Versus Wind Dispersal and the Robustness of Tree Species to Deforestation
D. Montoya, M. A. Zavala, M. A. Rodríguez, D. W. Purves
 In Spanish forests, tree species with seeds that are dispersed by animals are more resilient in a fragmented forest than those with wind-dispersed seeds.

10.1126/science.1158404

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The Role of Interstitial Sites in the Ti_{3d} Defect State in the Band Gap of Titania
S. Wendt et al.
 Scanning tunneling microscope data and calculations show that near-surface titanium sites, not bridging oxygen vacancies, determine the useful electronic properties of TiO₂.

10.1126/science.1159846

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Natural Selection Shapes Genome-Wide Patterns of Copy-Number Polymorphism in *Drosophila melanogaster*
J. J. Emerson, M. Cardoso-Moreira, J. O. Borevitz, M. Long
 A high-resolution analysis of gene copy number in *Drosophila* species shows that most variations are deleterious but a few for resistance to toxins are being positively selected.

10.1126/science.1158078

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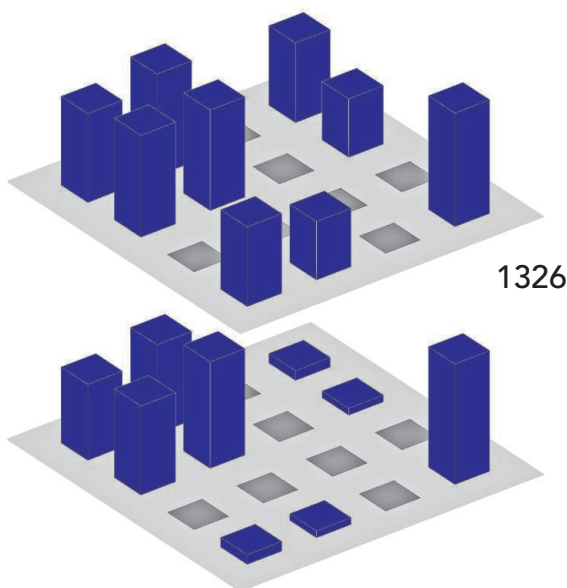
Predictable sequences of environmental signals can be exploited by bacteria so that they learn to anticipate future metabolic needs and thereby gain a competitive edge. >> *Perspective p. 1297*

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High Impulsivity Predicts the Switch to Compulsive Cocaine-Taking 1352
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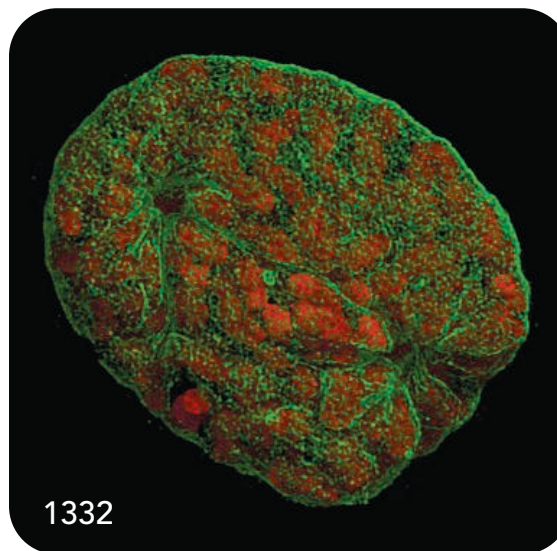
Rats that are more impulsive, but not those that seek novelty, tend to compulsively consume cocaine and become addicted.

>> *Science Podcast*

NEUROSCIENCE

Patches with Links: A Unified System for Processing Faces in the Macaque Temporal Lobe 1355
S. Moeller, W. A. Freiwald, D. Y. Tsao

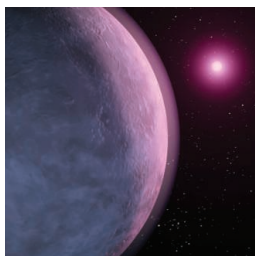
The six regions of the macaque cortex that respond to faces are strongly and specifically interconnected, indicating hierarchical processing of face stimuli.



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Student-Veterans Come Marching Home: A New G.I. Bill for Scientists

A. Kotok

Can the proposed G.I. Bill do for Iraq and Afghanistan veterans what the original G.I. Bill did for World War II veterans?

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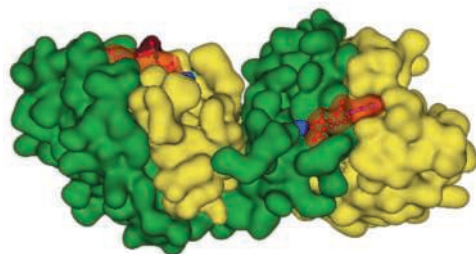
B. L. Benderly

Science and technology fields offer professional opportunities for veterans who choose wisely.

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Dimeric GTPase domains of the kinase LRRK2.

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PERSPECTIVE: ROCO Kinase Activity Is Controlled by Internal GTPase Function

B. Weiss

The guanosine triphosphatase (GTPase) domain of leucine-rich repeat kinase 2 (LRRK2) mediates LRRK2 homodimerization and controls its protein kinase activity.

PERSPECTIVE: Dual Functions of the KNOTTED1 Homeodomain—Sequence-Specific DNA Binding and Regulation of Cell-to-Cell Transport

N. Bolduc, S. Hake, D. Jackson

A single domain confers different subcellular localizations of the homeodomain protein KN1.

TEACHING RESOURCE: Physiological and Pathological Actions of Calpains in Glutamatergic Neurons

J. Liu, M. C. Liu, K. K. W. Wang

A pair of animations illustrates how neuronal calpains contribute to synaptic plasticity or neuronal toxicity.

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