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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10.1126/science.1155577

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In embryonic cells destined to form the heart in a simple chordate, a genetic network activates modules of effector genes for proteins that control cellular migration.

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

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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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Subdiffraction Multicolor Imaging of the Nuclear Periphery with 3D Structured Illumination Microscopy L. Schermelleh et al.
Fluorescence tags illuminated through a diffraction grating reveal the structure of nuclear pores, surrounding channels, and chromatin at a resolution of about 100 nanometers.

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Intersection of the RNA Interference and X-Inactivation Pathways Y. Ogawa, B. K. Sun, J. T. Lee
Two noncoding RNAs required for X-chromosome inactivation in female mice form a duplex that is cleaved by the RNA interference machine, indicating a link between X inactivation and RNA interference.

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Fission Yeast Pot1-Tpp1 Protects Telomeres and Regulates Telomere Length T. Miyoshi, J. Kanoh, M. Saito, F. Ishikawa
Yeast chromosome ends are protected by a protein complex similar to that in mammals, which prevents end-to-end chromosome fusion and controls telomere length.

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Dimeric GTPase domains of the kinase LRRK2.

PERSPECTIVE: ROCO Kinase Activity Is Controlled by Internal GTPase Function
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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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A. Kotok

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A. Kotok

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B. L. Benderly

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