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An analysis of lunar high-resolution topographic data helps explain how surface features are supported by the lithosphere.

900 Farside Gravity Field of the Moon from Four-Way Doppler Measurements of SELENE (Kaguya)
N. Namiki et al.
A gravity field model reveals differences in the lithosphere between the Moon’s far- and nearsides.

905 Long-Lived Volcanism on the Lunar Farside Revealed by SELENE Terrain Camera
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Images of the Moon by the SELENE spacecraft and revised dates of lava flows by crater counts imply that episodic volcanism on the farside lasted to 2.5 billion years ago.

909 Lunar Radar Sounder Observations of Subsurface Layers Under the Nearside Maria of the Moon
T. Ono et al.
A period of reduced volcanism may account for extensive regions of radar-reflective minerals that underlie some major lunar basalts.

912 Equilibrium Iron Isotope Fractionation at Core-Mantle Boundary Conditions
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915 Skyrmion Lattice in a Chiral Magnet
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T. Hanaguri et al.
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D. Fontanilla et al.
An endogenous compound is a ligand for a ubiquitously expressed receptor that binds many synthetic drugs and has been implicated in psychiatric disease.

937 When Your Gain Is My Pain and Your Pain Is My Gain: Neural Correlates of Envy and Schadenfreude
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Envy is strongest against those with similar attributes, and the most joy is gained from the pain of those envied the most.

940 A Neural Mechanism for Microsaccade Generation in the Primate Superior Colliculus
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943 An ABC Transporter Controls Export of a Drosophila Germ Cell Attractant
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946 The Orphan G Protein–Coupled Receptor 3 Modulates Amyloid-Beta Peptide Generation in Neurons
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HIV infections with vaginal microbicide. Study reports first “success” in preventing Novel HIV-Fighting Method Finally Gels

Activation of NFAT5

MEETING REPORT: Emerging Roles of NAD+ and Its Metabolites in Cell Signaling

Scientists discussed the molecular aspects of NAD+ metabolism and signaling at a conference in Hamburg, Germany.

NETWATCH: American Physiological Society Archive

Browse or search an index of peer-reviewed science education materials; in Educator Sites.

NETWATCH: Simmune Project

Build models, run simulations, and explore the dynamics of signaling pathways; in Modeling Tools.

NETWATCH: Emerging Roles of NAD+ and Its Metabolites in Cell Signaling

The Signal Transduction Knowledge Environment

MEETING REPORT: Emerging Roles of NAD+ and Its Metabolites in Cell Signaling

The guanine nucleotide exchange factor Brx is essential for osmotic stress-mediated expression of nfat5 in lymphocytes.

M. Husain et al.

B. Y. Ahn et al.

P. M. Bays and M. Husain

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The Man Who Wasn’t There

Douglas Prasher’s story reveals a lot about the scientific labor market.

A History of Beginnings

an update on the Neandertal genome, and more.

13 February Science Podcast
to hear about how toddler gesturing may improve children’s vocabulary, a new global view of the Moon, an update on the Neandertal genome, and more.

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