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Credit: Xiao Tao, Rockefeller University

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Published by AAAS
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Increased precipitation, rather than rapid uplift, drove isotopic changes in soil carbonates of the Andes in the late Miocene.

10.1126/science.1185078

Systematic Analysis of Human Protein Complexes Identifies Chromosome Segregation Proteins

J. R. A. Hutchins et al.

A strategy designed to decipher the function of proteins identified in RNA interference screens reveals new insights into mitosis.

10.1126/science.1181348

RESEARCH ARTICLE: Differential Redox Regulation of ORAI Ion Channels—A Mechanism to Tune Cellular Calcium Signaling

I. Bogeski et al.

Redox sensitivity of T cells decreases through ORAI Ca^{2+} channel subunit switching during T cell differentiation.

RESEARCH ARTICLE: New Roles for the LKB1-NUAK Pathway in Controlling Myosin Phosphatase Complexes and Cell Adhesion

A. Zagórska et al.

PODCAST

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The tumor suppressor LKB1 not only keeps cell proliferation in check but also modulates cell adhesion.

RESEARCH ARTICLE: Microfluidic Isolation and Molecular Characterization of Circulating Tumor Cells from Patients with Localized and Metastatic Prostate Cancer

S. Stott et al.

Automated imaging of prostate-specific cancer cells from the blood provides a measure of circulating tumor cell half-life after tumor resection.

RESEARCH ARTICLE: Plasmaclastoid Dendritic Cells Delineate Immunogenicity of Influenza Vaccine Subtypes

S. Koyama et al.

Rare, circulating dendritic cells differentially shape the immunogenicity mechanisms for protection against H1N1 influenza.

RESEARCH ARTICLE: GPCR Dimers Fall Apart

N. A. Lambert

Oligomers of G protein–coupled receptors may be less stable than previously suspected.

P. Vandenberghe et al.

Programmed necrosis in response to TNF requires the activity of two serine-threonine kinases.

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S. Carpenter

Like a microscope, assistive technologies allow scientists and engineers to extend their capabilities.

S. Carpenter

With assists from technology, these scientists and engineers are getting their work done.

Taken for Granted: Trying to Account for Tastes

B. L. Benderly

Research finds that scientists’ career preferences are far wider than stereotypes suggest.

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PERSPECTIVE: Toward an Oligonucleotide Therapy for Duchenne Muscular Dystrophy—A Complex Development Challenge

M. J. A. Wood

By correcting the reading frame in mutant DMD genes, antisense oligonucleotides can restore the production of missing dystrophin protein.

COMMENTARY: Complexity in Common Diseases—Big Biology for All

J. R. Lamb and N. Gibson

Discovery of diagnostic tools and treatments for common human diseases requires integrating research in academic and industrial institutions.