EXPLORING MARTIAN HABITABILITY

INTRODUCTION
386  Habitability, Taphonomy, and the Search for Organic Carbon on Mars
    J. P. Grotzinger

RESEARCH ARTICLE ABSTRACTS
387  Ancient Aqueous Environments at Endeavour Crater, Mars
    R. E. Arvidson et al.
    >> Science Podcast
    A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars
    J. P. Grotzinger et al.
    Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars
    D. T. Vaniman et al.
    Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars
    S. M. McLennan et al.
    Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars
    D. W. Ming et al.
    Mars’ Surface Radiation Environment Measured with the Mars Science Laboratory’s Curiosity Rover
    D. M. Hassler et al.
    In Situ Radiometric and Exposure Age Dating of the Martian Surface
    K. A. Farley et al.

LETTERS
368  Flu Threat Spurs Culture Change
    Q. Liao and R. Fielding
    Regulating Dual-Use Research in Europe
    G. Pala
    Misleading Results: Translational Challenges
    R. J. Traystman and P. S. Herson
    Misleading Results: Don’t Blame the Mice
    G. A. Churchill

CORRECTIONS AND CLARIFICATIONS
370

BOOKS ET AL.
371  The Climate Casino
    W. Nordhaus, reviewed by M. Jaccard
    The Circle
    D. Eggers, reviewed by A.-L. Barabási

POLICY FORUM
373  Raw Personal Data: Providing Access
    J. E. Lunshof et al.

PERSPECTIVES
375  mRNA, Live and Unmasked
    G. Akhalik and E. M. Schuman

NEWS FOCUS
361  The Epigenetics Heretic
364  Selling America’s Fossil Record
    >> Slideshow
Increased Dust Deposition in the Pacific Southern Ocean During Glacial Periods
F. Lamy et al.
A million-year-long marine sedimentary record of dust supply to the Pacific Southern Ocean reflects global climate.

A Peptide Hormone and Its Receptor Protein Kinase Regulate Plant Cell Expansion
M. Haruta et al.
A signaling system important in the regulation of plant cell size during development is identified.

A Different Form of Color Vision in Mantis Shrimp
H. H. Thoen et al.
Stomatopods use multiple photoreceptors to allow rapid color recognition rather than color discrimination.

Risky Ripples Allow Bats and Frogs to Eavesdrop on a Multisensory Sexual Display
W. Hulthäk et al.
Calling frogs incidentally produce water ripples that are targeted by rival males and frog-eating bats.

Endothelial Cell-Derived Angiopoietin-2 Controls Liver Regeneration as a Spatiotemporal Rheostat
J. Hu et al.
Endothelial cells control liver regeneration through paracrine hepatotropic and autocrine endotheliotropic mechanisms.

Single β-Actin mRNA Detection in Neurons Reveals a Mechanism for Regulating Its Translatability
A. R. Buxbaum et al.
Imaging of β-actin messenger RNA (mRNA) in neurons reveals transient alteration of mRNA availability during synaptic plasticity.

Visualization of Dynamics of Single Endogenous mRNA Labeled in Live Mouse Endothelial Cells
H. Y. Park et al.
A transgenic mouse with fluorescently labeled endogenous β-actin mRNA permits single-molecule analysis in live cells.

The HydG Enzyme Generates an Fe(CO)β(CN) Synthon in Assembly of the FeFe Hydrogenase H-Cluster
J. M. Kuchenreuther et al.
Vibrational spectroscopy traces the origin of carbon monoxide and cyanide ligands in the active site of di-iron hydrogenase enzymes.
Editor's Summary

This copy is for your personal, non-commercial use only.

Article Tools
Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/343/6169

Permissions
Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl