

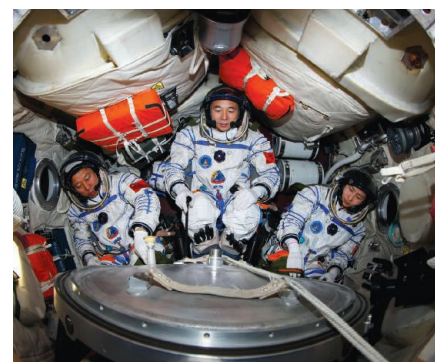
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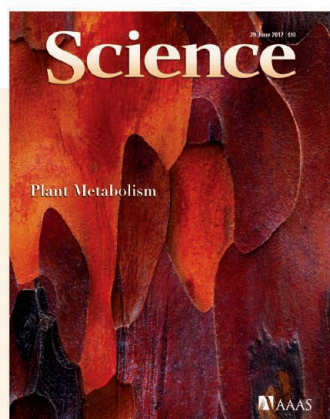
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Wet bark of a Pacific yew tree (*Taxus brevifolia*) in Union, Washington, USA (vertical dimension ~15 centimeters). Wild Pacific yew thrives in the damp coastal forests of northwestern North America, with thin bark ranging in color from rose to auburn. The anticancer agent paclitaxel was originally derived from yew trees. Such complex and useful compounds are just one of the many outputs from plant metabolic networks, as analyzed in the special issue beginning on page 1657.

Photo: Don Paulson, www.donpaulson.com

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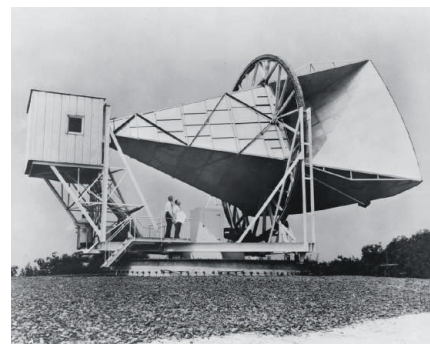
- 1683 Hesperian Age for Western Medusae Fossae Formation, Mars
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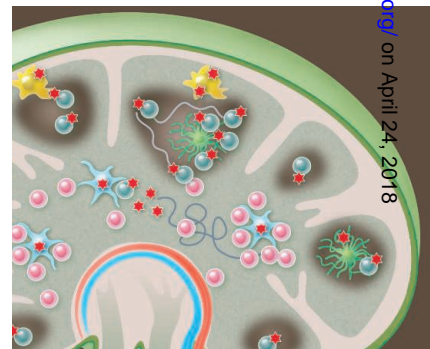
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The Tides of Titan

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Gravity measurements by the Cassini spacecraft suggest that Saturn's moon Titan hosts a subsurface ocean.

10.1126/science.1219631

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Synthesis and Structure of a Terminal Uranium Nitride Complex

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An Overlapping Protein-Coding Region in Influenza A Virus Segment 3 Modulates the Host Response

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A previously unidentified influenza protein, partly old and partly new, turns off the expression of host genes.

10.1126/science.1222213

Landscape of Somatic Retrotransposition in Human Cancers

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Whole-genome sequencing provides evidence for somatic insertions in colorectal, prostate, and ovarian cancers.

10.1126/science.1222077

Regional Astrocyte Allocation Regulates CNS Synaptogenesis and Repair

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10.1126/science.1222381

Programmable Dual-RNA-Guided DNA Endonuclease in Adaptive Bacterial Immunity

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A prokaryotic RNA-directed targeting system can be designed to cleave any DNA sequence.

10.1126/science.1225289

TECHNICAL COMMENTS

Comment on "Global Correlations in Tropical Tree Species Richness and Abundance Reject Neutrality"

R. S. Etienne and J. Rosindell

Full text at www.sciencemag.org/cgi/content/full/336/6089/1639-b

Comment on "Global Correlations in Tropical Tree Species Richness and Abundance Reject Neutrality"

C. Mora

Full text at www.sciencemag.org/cgi/content/full/336/6089/1639-c

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R. E. Ricklefs and S. S. Renner

Full text at www.sciencemag.org/cgi/content/full/336/6089/1639-f

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Boosting a stress-related gene alleviates depression in rats.

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A Facebook study separates the leaders from the followers.

<http://scim.ag/Social-Networks>

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Ultrasounds reveal how elephants remain pregnant for 22 months.

http://scim.ag/Elephant_Womb

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RESEARCH ARTICLE: Selective Effects of PD-1 on Akt and Ras Pathways Regulate Molecular Components of the Cell Cycle and Inhibit T Cell Proliferation

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An inhibitory receptor blocks proliferation of autoreactive T cells.

PERSPECTIVE: How Plant Lysin Motif Receptors Get Activated—Lessons Learned from Structural Biology

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A plant immune receptor is activated by chitin fragments that trigger receptor dimerization.

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Integrating Medicine and Science

27 June issue: <http://scim.ag/stm062712>

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FOCUS: Boosting Oxygenation During Acute Respiratory Failure

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STATE OF THE ART REVIEW: Fresh Approaches to Anti-Infective Therapies

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RESEARCH ARTICLE: Engineering a Prostate-Specific Membrane Antigen-Activated Tumor Endothelial Cell Prodrug for Cancer Therapy

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A prostate-specific membrane antigen-activated prodrug is being tested in patients with advanced cancer.

RESEARCH ARTICLE: AAV-Directed Persistent Expression of a Gene Encoding Anti-Nicotine Antibody for Smoking Cessation

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Gene therapy with an anti-nicotine monoclonal antibody limits nicotine access to the brain in mice.

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Genetically corrected mesoangioblasts contribute to muscle in mice with limb-girdle muscular dystrophy.

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Experimental Error: Will That Be Trash or Credit?

A. Ruben

If scientists just want to make the world better, why do they expend energy clamoring for credit? <http://scim.ag/TrashOrCredit>

New Technology Pollinates Plant Science

S. Webb

Advances in genetics and molecular biology are providing fresh tools for solving agricultural problems. http://scim.ag/SWebb_PlantScience

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On the 29 June Science Podcast: mining plant biodiversity, vision in murky waters, China's space program, and more.

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