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Special Issue

For all checked items [VIEW ABSTRACTS](#) [SAVE TO MY FOLDERS](#)***Ardipithecus ramidus*****Light on the Origin of Man**

Brooks Hanson  
*Science* 2 October 2009: 60-61.  
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 **Video: The Analysis of *Ardipithecus ramidus*—One of the Earliest Known Hominids**

*Science* 2 October 2009: 60.  
In this special video, *Science* presents *Ardipithecus ramidus*—the most detailed picture of early hominid life.  
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 **The Geological, Isotopic, Botanical, Invertebrate, and Lower Vertebrate Surroundings of *Ardipithecus ramidus***

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Antoine Louchart, Henry Wesselman, Robert J. Blumenschine, Leslea J. Hlusko, Jackson K. Njau, Michael T. Black, Mesfin Asnake, and Tim D. White  
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 **Paleobiological Implications of the *Ardipithecus ramidus* Dentition**

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- Careful Climbing in the Miocene: The Forelimbs of *Ardipithecus ramidus* and Humans Are Primitive**  
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*Science* 2 October 2009: 17.  
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**Editors' Choice**

Highlights of the recent literature.  
*Science* 2 October 2009: 19.  
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 **Science Podcast**

*Science* 2 October 2009: 157.

The show includes the most detailed snapshot of early hominid life, the origin of community structure, your letters to *Science*, and more.

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 **New Products**

*Science* 2 October 2009: 157.

A weekly roundup of information on newly offered instrumentation, apparatus, and laboratory materials of potential interest to researchers.

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**News of the Week** HIV/AIDS RESEARCH**Surprising AIDS Vaccine Success Praised and Pondered**

Jon Cohen  
*Science* 2 October 2009: 26-27.

Last week, HIV/AIDS researchers reacted to the news that a large clinical trial of an AIDS vaccine worked—the first success in 2 decades of effort.

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 SPACE SCIENCE**Mars Mission Delayed as Mad Dash to Prep Probe Falls Short**

Richard Stone  
*Science* 2 October 2009: 27.

Russia and China postpone until 2011 a mission to send a pair of probes to Mars and Phobos, the larger of the two martian moons, and return samples from Phobos—the first such mission in more than 30 years.

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 CLIMATE CHANGE**What Happened to Global Warming? Scientists Say Just Wait a Bit**

Richard A. Kerr  
*Science* 2 October 2009: 28-29.

The blogosphere has been having a field day with global warming's apparent decade-long stagnation, but Climate researchers are beginning to answer back in their preferred venue, the peer-reviewed literature.

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 BIOSECURITY**Lawmakers Signal Tougher Controls on Pathogen Research**

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CureVac

Yudhijit Bhattacharjee  
*Science* 2 October 2009: 28-29.

Concerns over the security of new biocontainment labs that have sprung up around the United States since the 2001 anthrax letter attacks threaten to slow the booming biodefense industry.

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SCIENCEINSIDER

From the **Science Policy Blog**  
*Science* 2 October 2009: 29.

*Science*Insider this week reported on a new graduate university in Saudi Arabia, a case involving fabricated data at Switzerland's top university, and Chinese President Hu Jintao at the U.N. General Assembly summit on climate change, among other stories.

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FORENSIC SCIENCE

**Scientists Decry Isotope, DNA Testing of 'Nationality'**  
 John Travis

*Science* 2 October 2009: 30-31.

Scientists are greeting with dismay a project to use DNA and isotope analysis of tissue from asylum-seekers to evaluate their nationality and help decide who can enter the United Kingdom.

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SCIENCENOW.ORG

From **Science's Online Daily News Site**  
*Science* 2 October 2009: 31.

Highlights from *Science*NOW this week include the upside of recessions, evolution's move forward, coyotes mating with wolves, and taking the tally of curious triangles.

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**Random Samples**

*Science* 2 October 2009: 25.  
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**News Focus**

ORIGINS

**On the Origin of Ecological Structure**  
 Erik Stokstad

*Science* 2 October 2009: 33-35.

What dictates the kinds and proportions of organisms in a community? In the 10th essay in *Science's* series in honor of the Year of Darwin, Erik Stokstad explores the question of the relative importance of the various forces that act on a biological community.

[Summary »](#) [Full Text »](#) [PDF »](#) [Podcast Interview »](#)

ARDIPITHECUS RAMIDUS

**A New Kind of Ancestor: *Ardipithecus* Unveiled**  
 Ann Gibbons

*Science* 2 October 2009: 36-40.

In this special issue of *Science*, the oldest known hominin skeleton, *Ardipithecus ramidus*, reveals the upright origins of humankind

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ARDIPITHECUS RAMIDUS

**Habitat for Humanity**  
 Ann Gibbons

*Science* 2 October 2009: 40.

Heaps of sediment are all that's left behind from a fossil-mining operation in Aramis, Ethiopia, that yielded one of the most important fossils in human evolution, as well as thousands of clues to its ecology and environment.

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ARDIPITHECUS RAMIDUS

**The View From Afar**  
 Ann Gibbons

*Science* 2 October 2009: 41-43.

How do you find priceless hominin fossils in a hostile desert? Build a strong team and obsess over the details

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**Think Big, Eat Small**

Eric Dewailly and Philippe Rouja  
*Science* 2 October 2009: 44.

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Robin Kundis Craig  
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F. E. Guerra-Pujol  
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Michelle E. Portman  
*Science* 2 October 2009: 45.

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**Response--Public Trust Doctrine**

Mary Turnipseed, Larry B. Crowder, Raphael D. Sagarin, and Stephen E. Roody  
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###### **A Plunge into Networks**

David Krackhardt  
*Science* 2 October 2009: 47-48.

Drawing on models, techniques, and findings from sociology, physics, mathematics, and computer science, Jackson provides a foundation for analyzing and understanding social and economic networks.

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##### ENVIRONMENT

###### **What Powers Have Words?**

Greg Garrard  
*Science* 2 October 2009: 48.

In this combination of anthology and commentary, Felstiner argues that poetic language effectively leads people to appreciate nature, recognize the imperiled state of the environment, and take steps toward better stewardship of the world.

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##### POETRY

###### **Influenced by Darwin**

Sherman J. Suter  
*Science* 2 October 2009: 49.

Three of the poems read by their authors in the Darwin and Poetry session at Cambridge's Darwin Festival.

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##### Books Received

*Science* 2 October 2009: 49.

A [listing of books received](#) at *Science* during the week ended 25 September 2009.

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###### **Rethinking Influenza**

Rino Rappuoli, Giuseppe Del Giudice, Gary J. Nabel, Albert D. M. E. Osterhaus, Robin Robinson, David Salisbury, Klaus Stöhr, and John J. Treanor  
*Science* 2 October 2009: 50.

We have already learned a great deal about fighting influenza, but we need to move from a reactive to a proactive and sustainable stance.

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###### **Pushing Back Amber Production**

David Grimaldi  
*Science* 2 October 2009: 51-52.

Amber from 320 million years ago is surprisingly similar to that formed much later by resins from flowering plants.

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###### **Poison-Tolerant Fuel Cells**

J. R. Selman  
*Science* 2 October 2009: 52-53.

Alternatives to nickel-based electrocatalysts are being pursued to circumvent the problems contributing to the performance degradation of high-temperature fuel cells.

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###### **The Coordinates of Truth**

Gary J. Nabel  
*Science* 2 October 2009: 53-54.

What drives scientific discovery, and how can we make it happen more effectively?

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##### CELL SIGNALING

###### **Aging Is RSKy Business**

Matt Kaerberlein and Pankaj Kapahi  
*Science* 2 October 2009: 55-56.

Progress in defining a signaling pathway that controls mammalian life span raises the possibility of discovering treatments for aging-related diseases.

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##### ATMOSPHERE

###### **Nitrous Oxide: No Laughing Matter**

Donald J. Wuebbles  
*Science* 2 October 2009: 56-57.

Rising atmospheric concentrations of nitrous oxide are contributing to global warming and stratospheric ozone destruction.

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CELL BIOLOGY

 **A Revolving Door for Calcium**

Nicolas Demaurex and Damon Poburko  
*Science* 2 October 2009: 57-58.

A mitochondrial protein linked to seizures exchanges calcium and hydrogen ions, controlling cell respiration and calcium signaling.

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**Review**
 **Quantum Simulators**

Iulia Buluta and Franco Nori  
*Science* 2 October 2009: 108-111.

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**Brevia**
 **Global Surface Wave Tomography Using Seismic Hum**

Kiwamu Nishida, Jean-Paul Montagner, and Hitoshi Kawakatsu  
*Science* 2 October 2009: 112.

Long-period surface waves from oceanic or atmospheric disturbances can be used for seismic mapping of the upper mantle.

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**Reports**
 **Fluxonium: Single Cooper-Pair Circuit Free of Charge Offsets**

Vladimir E. Manucharyan, Jens Koch, Leonid I. Glazman, and Michel H. Devoret  
*Science* 2 October 2009: 113-116.

Circuit engineering was used to mitigate the effects of quantum noise in superconducting quantum circuits.

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 **Preferential Growth of Single-Walled Carbon Nanotubes with Metallic Conductivity**

Avetik R. Harutyunyan, Gugang Chen, Tereza M. Paronyan, Elena M. Pigos, Oleg A. Kuznetsov, Kapila Hewaparakrama, Seung Min Kim, Dmitri Zakharov, Eric A. Stach, and Gamini U. Sumanasekera  
*Science* 2 October 2009: 116-120.

Reaction conditions that alter catalyst particles can bias the chirality and electronic properties of nanotube products.

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 **Chiral Organic Ion Pair Catalysts Assembled Through a Hydrogen-Bonding Network**

Daisuke Uraguchi, Yusuke Ueki, and Takashi Ooi  
*Science* 2 October 2009: 120-123.  
Published online 27 August 2009 [DOI: 10.1126/science.1176758] (in *Science Express Reports*)

A small cluster of hydrogen-bonded molecules acts as a highly selective asymmetric catalyst.

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 **Nitrous Oxide (N<sub>2</sub>O): The Dominant Ozone-Depleting Substance Emitted in the 21st Century**

A. R. Ravishankara, John S. Daniel, and Robert W. Portmann  
*Science* 2 October 2009: 123-125.  
Published online 27 August 2009 [DOI: 10.1126/science.1176985] (in *Science Express Reports*)

Nitrous oxide causes more stratospheric ozone destruction than any other ozone-depleting substance.

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 **Enhanced Sulfur and Coking Tolerance of a Mixed Ion Conductor for SOFCs: BaZr<sub>0.1</sub>Ce<sub>0.7</sub>Y<sub>0.2-2x</sub>Yb<sub>x</sub>O<sub>3-δ</sub>**

Lei Yang, Shizhong Wang, Kevin Blinn, Mingfei Liu, Ze Liu, Zhe Cheng, and Meilin Liu  
*Science* 2 October 2009: 126-129.

A barium zirconate-cerate doped with yttrium and ytterbium can transport both protons and oxygen ions at high temperatures.

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 **Rapid Resurgence of Marine Productivity After the Cretaceous-Paleogene Mass Extinction**

Julio Sepúlveda, Jens E. Wendler, Roger E. Summons, and Kai-Uwe Hinrichs  
*Science* 2 October 2009: 129-132.

Preserved lipids imply that primary production recovered perhaps within 50 years of the end-Cretaceous extinction.

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 **Identification of Carboniferous (320 Million Years Old) Class Ic Amber**

P. Sargent Bray and Ken B. Anderson  
*Science* 2 October 2009: 132-134.

Carboniferous amber has a chemistry similar to that of amber from angiosperms that evolved about 150 million years later.

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 **Immune Activation by Life-Shortening *Wolbachia* and Reduced Filarial Competence in Mosquitoes**

Zakaria Kambris, Peter E. Cook, Hoang K. Phuc, and Steven P. Sinkins  
*Science* 2 October 2009: 134-136.

A bacterial infection in mosquitoes impairs their capacity to transmit human pathogens.

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 **Genetic Discontinuity Between Local Hunter-Gatherers and Central Europe's First Farmers**

B. Bramanti, M. G. Thomas, W. Haak, M. Unterlaender, P. Jores, K. Tambets, I. Antanaitis-Jacobs, M. N. Haidle, R. Jankauskas, C.-J. Kind, F. Lueth, T. Terberger, J. Hiller, S. Matsumura, P. Forster, and J. Burger  
*Science* 2 October 2009: 137-140.  
Published online 3 September 2009 [DOI: 10.1126/science.1176869] (in *Science Express Reports*)

Skeletal DNA shows the relationship between Ice Age hunter-gatherers, the first farmers, and modern Europeans.

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**Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span**

Colin Selman, Jennifer M. A. Tullet, Daniela Wieser, Elaine Irvine, Steven J. Lingard, Agharul I. Choudhury, Marc Claret, Hind Al-Qassab, Danielle Carmignac, Faruk Ramadani, Angela Woods, Iain C. A. Robinson, Eugene Schuster, Rachel L. Batterham, Sara C. Kozma, George Thomas, David Carling, Klaus Okkenhaug, Janet M. Thornton, Linda Partridge, David Gems, and Dominic J. Withers  
*Science* 2 October 2009: 140-144.

A signaling pathway in mice mediates the effects of caloric restriction that protect against age-related diseases.

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 **Genome-Wide RNAi Screen Identifies Letm1 as a Mitochondrial Ca<sup>2+</sup>/H<sup>+</sup> Antiporter**

Dawei Jiang, Linlin Zhao, and David E. Clapham  
*Science* 2 October 2009: 144-147.

A nuclear-encoded protein is responsible for the uptake of calcium and the export of protons across the mitochondrial membrane.

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 **Dissecting the Genetic Basis of Resistance to Malaria Parasites in *Anopheles gambiae***

Stephanie A. Blandin, Rui Wang-Sattler, Marina Lamacchia, Julien Gagneur, Gareth Lycett, Ye Ning, Elena A. Levashina, and Lars M. Steinmetz  
*Science* 2 October 2009: 147-150.

Genome-wide mapping reveals the molecular basis of phenotypic variation in resistance to *Plasmodium* in mosquitoes.

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 **Coat Variation in the Domestic Dog Is Governed by Variants in Three Genes**

Edouard Cadieu, Mark W. Neff, Pascale Quignon, Kari Walsh, Kevin Chase, Heidi G. Parker, Bridgett M. VonHoldt, Alison Rhue, Adam Boyko, Alexandra Byers, Aaron Wong, Dana S. Mosher, Abdel G. Elkahoul, Tyrone C. Spady, Catherine André, K. Gordon Lark, Michelle Cargill, Carlos D. Bustamante, Robert K. Wayne, and Elaine A. Ostrander  
*Science* 2 October 2009: 150-153.

Published online 27 August 2009 [DOI: 10.1126/science.1177808] (in *Science Express Reports*)

Huge variations in the coats of purebred dogs can be explained by the combinatorial effects of only three genes.

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 **JAK-STAT Signal Inhibition Regulates Competition in the *Drosophila* Testis Stem Cell Niche**

Melanie Issigonis, Natalia Tulina, Margaret de Cuevas, Crista Brawley, Laurel Sandler, and Erika Matunis  
*Science* 2 October 2009: 153-156.

Suppression of transcription signaling in somatic stem cells prevents them from out-competing neighboring germline stem cells.

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