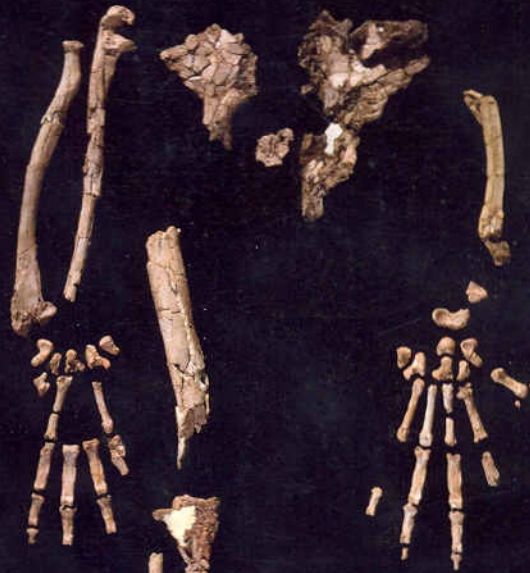


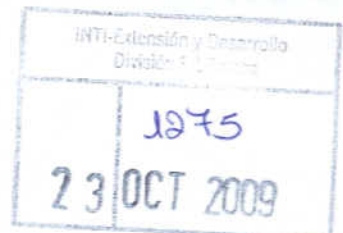
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Science

Programa de
Biotecnología
004



Ardipithecus ramidus



AAAS

SPECIAL SECTION

Ardipithecus ramidus

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COVER

Partial skeleton of *Ardipithecus ramidus*, a hominid species living about 4.4 million years ago in Ethiopia. This female stood about 1.2 meters high. Eleven papers from an international team of authors published in print and online in this special issue describe the anatomy of this species and its habitat and discuss the implications for understanding human evolution. One result is that extant great apes are poor models for our last common ancestor with chimpanzees. See page 60 for an introduction.

Image: © T. White, 2008

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- 116 Preferential Growth of Single-Walled Carbon Nanotubes with Metallic Conductivity
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- 120 Chiral Organic Ion Pair Catalysts Assembled Through a Hydrogen-Bonding Network
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- 123 Nitrous Oxide (N_2O): The Dominant Ozone-Depleting Substance Emitted in the 21st Century
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- 132 Identification of Carboniferous (320 Million Years Old) Class Ic Amber
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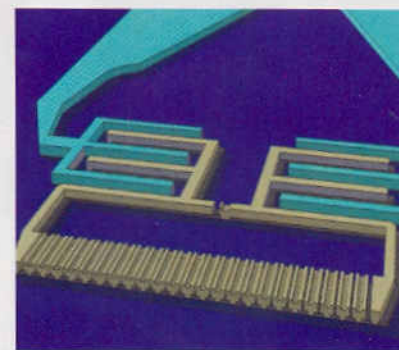
Huge variations in the coats of purebred dogs can be explained by the combinatorial effects of only three genes.

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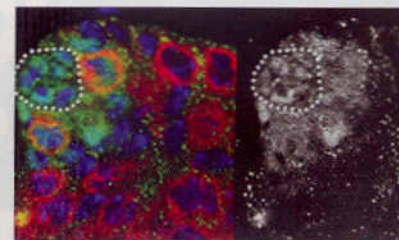
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Suppressor T cells regulate different classes of immune responses through induction of specific transcription factors.
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Two Chemoreceptors Mediate Developmental Effects of Dauer Pheromone in *C. elegans*

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A sample of elliptical systems provides evidence that disruption of galaxies plays an important role in their evolution.
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Dylan to Darwin: Don't Look Back

A study of ancient proteins shows that evolution doesn't go in reverse.

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The Signal Transduction Knowledge Environment

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The Long and Short of Redox Signaling

N. R. Gough

Reactive oxygen species mediate local and long-distance signals.

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M. A. Gomez et al.

The parasite protein GP63 triggers cleavage and activation of host protein tyrosine phosphatases to promote infection.

RESEARCH ARTICLE: Hippo Pathway-Dependent and -Independent Roles of RASSF6

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RASSF6 is both an inhibitor and a promoter of apoptosis, and its proapoptotic activity is regulated by the mammalian kinase MST2, a Hippo homolog.

PERSPECTIVE: Sending ROS on a Bullet Train

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PERSPECTIVE: STAT3 Revs Up the Powerhouse

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Attachment of electrophilic products of redox reactions to proteins links cell function to changes in metabolic and inflammatory status.

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Responding to redox signals.



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Owning up to depression.

SPECIALFEATURE: *Ardipithecus ramidus*

The entire contents of this week's special section, online—plus special video and podcast features. Find it all at www.sciencemag.org/ardipithecus/.

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A History of Beginnings

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