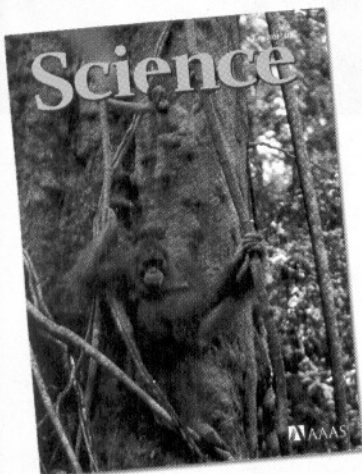




COVER

An orangutan (*Pongo abelii*) from Sumatra, Indonesia, in an upright posture. Orangutans, a more distant relative of humans than chimps or gorillas, move in a bipedal fashion on small flexible branches. Human bipedalism may thus reflect selection of a behavior that was present in the common great ape ancestor. See page 1328.

Photo: Art Wolfe/Getty Images

DEPARTMENTS

1247	Science Online
1249	This Week in Science
1255	Editors' Choice
1258	Contact Science
1261	Random Samples
1263	Newsmakers
1359	Science Careers

EDITORIAL

1253	Changes in Innovation Ecology by William A. Wulf
------	---

NEWS OF THE WEEK

Mammoth-Killer Impact Gets Mixed Reception From Earth Scientists	1264
NIH to End Chimp Breeding for Research	1265
Researchers Fault U.S. Report Critiquing Education Programs	1267
SCIENCESCOPE	1267
U.S. Immigration Bill Would Extend Warmer Welcome to Highly Skilled	1268
Stern Looks for Way Out of NASA's Budget Squeeze	1269
Australian University Is Latest to Pull Up Stakes in Singapore	1269

NEWS FOCUS

Preparing Teachers

A New Twist on Training Teachers	1270
BYU Takes Team Approach Led by a Master Teacher Prime Mover: Robert Clark Junior High Means a Senior Commitment	1272
UTexas Tells Science Majors: We Want U (to) Teach Prime Mover: Mary Ann Rankin UTeach Makes Marshall Hester a Lifer	1275
Colorado Also Seeks Impact on Campus Prime Mover: Richard McCray Teaching for a Living or for Life	1276
California Heads Down Many Roads in Search of Best Training Model	1279



LETTERS

Biodiversity Loss in the Ocean: How Bad Is It?	1281
S. Murawski, R. Methot, G. Tromble; R. W. Hilborn; J. C. Briggs Response B. Worm et al.	
Problems of Searching in Web Databases W. Warnick	
CORRECTIONS AND CLARIFICATIONS	1284

BOOKS ET AL.

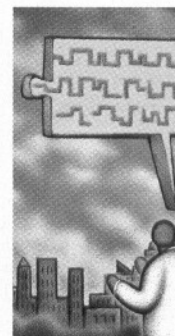
A Scientist's Guide to Talking with the Media Practical Advice from the Union of Concerned Scientists R. Hayes and D. Grossman, reviewed by B. K. Pope	1286
State of Immunity The Politics of Vaccination in Twentieth-Century America J. Colgrove, reviewed by R. Rappuoli	1287

POLICY FORUM

Energy Security for North Korea D. Von Hippel and P. Hayes	1288
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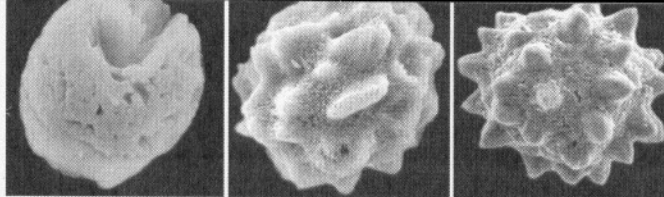
PERSPECTIVES

Watching Electrons Break Up P. Coleman >> Report p. 1320	1290
The Cutting Edge of T Cell Selection M. J. Bevan >> Report p. 1349	1291
Walking on Trees P. O'Higgins and S. Elton >> Report p. 1328	1292
Burial at Sea J. J. Middelburg and F. J. R. Meysman >> Report p. 1325	1294
The Monsoon's Past P. A. Barker >> Research Article p. 1303	1295
Infectious Heresy J. A. Downie >> Research Article p. 1307	1296



1286

CONTENTS continued >>



SCIENCE EXPRESS

www.sciencexpress.org

ASTROPHYSICS

Imaging the Surface of Altair

J. D. Monnier et al.

Optical interferometry of the surface of the star Altair suggests that its elongate shape and brightness may reflect unusual differential rotation near its equator.

10.1126/science.1143205

CLIMATE CHANGE

How Much More Rain Will Global Warming Bring?

F. J. Wentz, L. Ricciardulli, K. Hilburn, C. Mears

Humidity and precipitation unexpectedly increased at the same rate in response to global warming during the past 20 years, yielding more rainfall than predicted by models.

10.1126/science.1140746

EVOLUTION

Sponge Paleogenomics Reveals an Ancient Role for Carbonic Anhydrase in Skeletogenesis

D. J. Jackson, L. Macis, J. Reitner, B. M. Degnan, G. Wörheide

Analysis of an extant but evolutionarily ancient reef-building sponge shows how, through duplication, one early gene gave rise to later genes for calcification.

10.1126/science.1141560

MOLECULAR BIOLOGY

Genome-Wide Mapping of in Vivo Protein-DNA Interactions

D. S. Johnson, A. Mortazavi, R. M. Myers, B. Wold

Chromatin immunoprecipitation and high-throughput sequencing identify the nearly 2000 specific DNA binding sites for a neuronal transcription factor.

10.1126/science.1141319

TECHNICAL COMMENT ABSTRACTS

ECOLOGY

Comment on "Impacts of Biodiversity Loss on Ocean Ecosystem Services"

1285

J. Jaenike

full text at www.sciencemag.org/cgi/content/full/316/5829/1285a

Comment on "Impacts of Biodiversity Loss on Ocean Ecosystem Services"

M. J. Wilberg and T. J. Miller

full text at www.sciencemag.org/cgi/content/full/316/5829/1285b

Comment on "Impacts of Biodiversity Loss on Ocean Ecosystem Services"

F. Hölker et al.

full text at www.sciencemag.org/cgi/content/full/316/5829/1285c

Response to Comments on "Impacts of Biodiversity Loss on Ocean Ecosystem Services"

B. Worm et al.

full text at www.sciencemag.org/cgi/content/full/316/5829/1285d

REVIEW

EPIDEMIOLOGY

Large-Scale Spatial-Transmission Models of Infectious Disease

1298

S. Riley

BREVIA

PALEONTOLOGY

Seawater Chemistry and Early Carbonate Biomineralization

1302

S. M. Porter

When the earliest animals developed skeletons in the Late Precambrian, seawater chemistry may have determined whether they were made of calcite or its polymorph aragonite.

RESEARCH ARTICLES

CLIMATE CHANGE

155,000 Years of West African Monsoon and Ocean Thermal Evolution

1303

S. Weldeab, D. W. Lea, R. R. Schneider, N. Andersen

During the past 155,000 years, rainfall in West Africa has changed abruptly following northern high-latitude climate changes, and has decreased during the past 5000 years.

>> Perspective p. 1295

MICROBIOLOGY

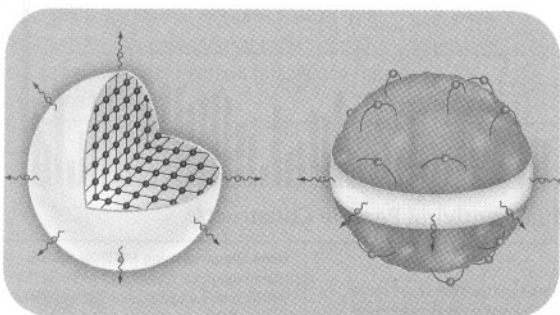
Legumes Symbioses: Absence of *Nod* Genes in Photosynthetic Bradyrhizobia

1307

E. Giraud et al.

Two species of nitrogen-fixing bacteria lack the usual liposaccharide signal by which they communicate with their legume hosts and instead may use a purine derivative.

>> Perspective p. 1296



1290 & 1320

REPORTS

APPLIED PHYSICS

- Quantum Register Based on Individual Electronic and Nuclear Spin Qubits in Diamond** 1312

M. V. G. Dutt et al.

Electronic and associated nuclear spins in a nitrogen vacancy in diamond can serve as a room-temperature quantum register to write, store, and retrieve information.

APPLIED PHYSICS

- Functional Quantum Nodes for Entanglement Distribution over Scalable Quantum Networks** 1316

C.-W. Chou et al.

Entanglement between atomic gas clouds 3 meters apart forms a quantum repeater, an essential tool for passing information in long-distance quantum communication.

PHYSICS

- Anisotropic Violation of the Wiedemann-Franz Law at a Quantum Critical Point** 1320

M. A. Tanatar, J. Paglione, C. Petrovic, L. Taillefer

A heavy fermion system tuned to a quantum critical point violates the standard relation in metals between thermal and electronic conductivity in one direction.

>> Perspective p. 1290

PLANETARY SCIENCE

- Mars: A New Core-Crystallization Regime** 1323

A. J. Stewart, M. W. Schmidt, W. van Westrenen, C. Liebske

High-pressure experiments imply that Mars has an entirely liquid iron-nickel-sulfur core that, unlike Earth's core, will not form an iron-rich solid inner region as it cools.

OCEAN SCIENCE

- Physical Model for the Decay and Preservation of Marine Organic Carbon** 1325

D. H. Rothman and D. C. Forney

A model suggests that preservation of organic matter in marine sediments depends primarily on its protection from microbial degradation.

>> Perspective p. 1294

ANTHROPOLOGY

- Origin of Human Bipedalism As an Adaptation for Locomotion on Flexible Branches** 1328

S. K. S. Thorpe, R. L. Holder, R. H. Crompton

Orangutans use bipedal movements when feeding from small, flexible branches, implying that early bipedalism was retained, not gained, in humans but lost by apes and chimps.

>> Perspective p. 1292

GENETICS

- Genome-Wide Association Analysis Identifies Loci for Type 2 Diabetes and Triglyceride Levels** 1331

Diabetes Genetics Initiative of Broad Institute of Harvard and MIT, Lund University, and Novartis Institutes for BioMedical Research

- Replication of Genome-Wide Association Signals in UK Samples Reveals Risk Loci for Type 2 Diabetes** 1336

E. Zeggini et al.

- A Genome-Wide Association Study of Type 2 Diabetes in Finns Detects Multiple Susceptibility Variants** 1341

L. J. Scott et al.

The hereditary component of type 2 diabetes reflects the contribution of at least 10 genetic variants, each with a modest effect on risk.

VIROLOGY

- Complex I Binding by a Virally Encoded RNA Regulates Mitochondria-Induced Cell Death** 1345

M. B. Reeves et al.

An abundant viral RNA stabilizes host mitochondria and thus prevents infection-induced cell death, ensuring that the host cell survives long enough for the virus to reproduce.

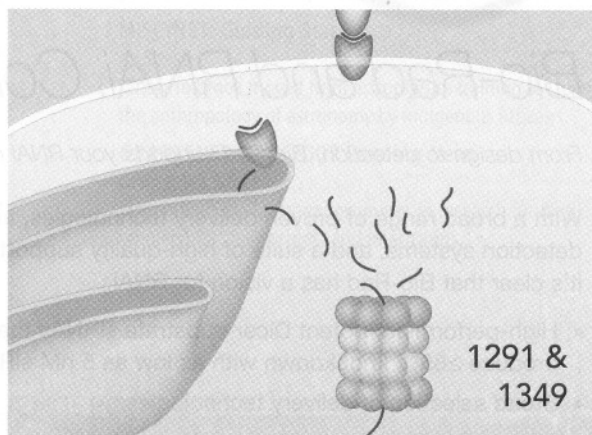
IMMUNOLOGY

- Regulation of CD8⁺ T Cell Development by Thymus-Specific Proteasomes** 1349

S. Murata et al.

A proteasome found only in cortical epithelial cells of the thymus has a specific protein-cleaving subunit that may contribute to positive selection of developing immune cells.

>> Perspective p. 1291



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CONTENTS continued >>>