EDITORIAL
901  A Fond Farewell
Colin Norman
>> Policy Podcast

NEWS OF THE WEEK
906  A roundup of the week’s top stories

NEWS & ANALYSIS
908  Report Reignites Battle Over Low-Salt Diets
909  Can Animals Envision the Future? Scientists Spar Over New Data
910  Biology of Genomes Meeting
   Long Noncoding RNAs May Alter Chromosome’s 3D Structure
   In Latino Genomes, a Rich Source of History
911  NSF Says No to Legislator Seeking Reviewer Comments
913  Two Proofs Spark a Prime Week for Number Theory

NEWS FOCUS
914  Hubs Aim to Reinvent DOE Research Culture
919  Are Isle Royale’s Wolves Chasing Extinction?
   >> Science Podcast

LETTERS
923  Shark Mislabeling Threatens Biodiversity
   H. Bornatowski et al.
   Pollination Decline in Context
   J. Ghazoul
   Response
   J. M. Tyler
924  CORRECTIONS AND CLARIFICATIONS
924  TECHNICAL COMMENT ABSTRACTS

BOOKS ET AL.
926  The Nature and Nurture of Love
   M. Vicedo, reviewed by B. Harris

POLICY FORUM
927  Economic Rewards to Motivate Blood Donations
   N. Lacetera et al.
   >> Science Podcast

PERSPECTIVES
929  Culture, Genes, and the Human Revolution
   S. E. Fisher and M. Ridley
930  A Sweet Send-Off
   B. Kleizen and I. Braakman
   >> Report p. 978
932  One Good Measure
   M. R. Schreiber
   >> Report p. 950
933  More Power from Below
   J. N. Moore and S. F. Simmons
935  All Change for Nanocrystals
   M. Ibáñez and A. Cabot
   >> Report p. 964
936  Unveiling the Malaria Parasite’s Cloak of Invisibility?
   N. Philip and A. P. Waters
   >> Report p. 984
937  Antigen Processing Takes a New Direction
   N. Goonetilleke and A. J. McMichael
   >> Research Article p. 940
939  Retrospective: François Jacob (1920–2013)
   L. Shapiro and R. Losick

RESEARCH ARTICLES
940  Cytomegalovirus Vectors Violate CD8⁺ T Cell Epitope Recognition Paradigms
   S. G. Hansen et al.
   A vaccine that uses one virus to deliver components of a second virus elicits T cells
   that recognize noncanonical epitopes.
   Research Article; for full text:
   http://dx.doi.org/10.1126/science.1237874
   >> Perspective p. 937

CONTENTS continued >>

ON THE WEB THIS WEEK
>> Policy Podcast
Listen to an interview with outgoing Science News Editor Colin Norman.

>> Find More Online
Check out Science Express, our podcast, videos, daily news, our research journals, and
Science Careers at www.sciencemag.org.

COVER
A Classopolis meyeriana conifer pollen grain (~30 micrometers across) preserved in lake sediments deposited just after a
massive, volcano-induced extinction event ~200 million years ago. This fossilized pollen grain is representative of
the low-diversity plant assemblages found within the tropics of the Pangean supercontinent during the postextinction
recovery period. See page 941.

Image: Dee Breger and Sarah Fowell/Science Source

DEPARTMENTS
899  This Week in Science
902  Editors’ Choice
904  Science Staff
995  New Products
996  Science Careers
Zircon U-Pb Geochronology Links the End-Triassic Extinction with the Central Atlantic Magmatic Province

T. J. Blackburn et al.

Climate change triggered by massive volcanism set the stage for the era of dinosaurs.

Annually Resolved Ice Core Records of Tropical Climate Variability over the Past ~1800 Years

L. G. Thompson et al.

A record from the Quelccaya ice cap in Peru shows the variability of climate in the tropical Andes.

REPORTS

An Accurate Geometric Distance to the Compact Binary SS Cygni Vindicates Accretion Disc Theory

J. C. A. Miller-Jones et al.

SS Cygni is much closer than previously thought, removing a major challenge to our understanding of accretion theory.

> Perspective p. 932

A Taxel-Addressable Matrix of Vertical-Nanowire Piezotronic Transistors for Active and Adaptive Tactile Imaging

W. Wu et al.

An active, addressable pressure-sensitive device facilitates high-resolution tactile imaging.

Periodic Segregation of Solute Atoms in Fully Coherent Twin Boundaries

J. F. Nie et al.

Thermally driven ordering of solute atoms can lead to an unexpected strengthening of a metal alloy.

Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels

Z. R. Herm et al.

A porous material shows preliminary promise for enhancing a separations process central to gasoline production.

Galvanic Replacement Reactions in Metal Oxide Nanocrystals

M. H. Oh et al.

Hollow mixed-metal oxide nanoparticles can be made by replacing the metal cations through redox reactions in solution.

> Perspective p. 935

The Cells and Circuitry for Itch Responses in Mice

S. K. Mishra and M. A. Hoon

Natriuretic polypeptide b is the primary neurotransmitter in TRPV1-expressing, itch-sensitive afferent nerve fibers.

Changes in Taste Neurons Support the Emergence of an Adaptive Behavior in Cockroaches

A. Wada-Katsumata et al.

Some German cockroaches find glucose both sweet and bitter, which allows them to avoid baited traps.

> Science Podcast

Ribosominal Protein SA Haploinsufficiency in Humans with Isolated Congenital Asplenia

A. Bolze et al.

A rare human disorder, characterized by the absence of a spleen at birth, is associated with mutations in a ribosomal protein.

Futile Protein Folding Cycles in the ER Are Terminated by the Unfolded Protein O-Mannosylation Pathway

C. Xu et al.

Proteins that fail to fold up properly after many tries are tagged with mannose and voted off the island.

> Perspective p. 930

Identification of a Heteromeric Complex That Promotes DNA Replication Origin Firing in Human Cells

D. Boos et al.

A protein implicated in oncogenesis is found to be critical for DNA replication in plants and animals.

The Human Malaria Parasite Pf647 Gene Mediates Evasion of the Mosquito Immune System

A. Molina-Cruz et al.

A surface protein of Plasmodium falciparum ookinetes allows them to evade the complement-like responses of Anopheles gambiae.

> Perspective p. 936

Tetrahydrobiopterin Biosynthesis as an Off-Target of Sulfanilamide Drugs

H. Haruki et al.

A structural analysis reveals that a wide range of sulfanilamide drugs inhibit neurotransmitter biosynthesis.

Defining Single Molecular Forces Required to Activate Integrin and Notch Signaling

X. Wang and T. Ha

A piconewton (pN) tension gauge reveals that less than 12 pN suffices to activate Notch.