EDITORIAL
670 Ensuring Success for J-NIH
Takashi Kadowaki

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

NEWS & ANALYSIS
679 Israel’s Silent Polio Epidemic Breaks All the Rules
680 California Moves Shake Up Prenatal Gene Testing Market
681 Orbiting MAVEN Mission Set to Trace a Planet’s History in Thin Martian Air
682 Soldier-Scientists Join Counterinsurgency in Afghanistan
683 The Ears Have It: First Snakes Were Burrowers, Not Swimmers
683 Has Program to Rotate Scientists at NSF Spun Out of Control?

NEWS FOCUS
684 The Forgotten Malaria
Malaria as Lifesaving Therapy
>> Science Podcast
688 In the Hot Seat

LETTERS
691 In Defense of WHO’s Blood Donation Policy
N. Dhirgra
Response
N. Lacetera et al.
Returning to the Colombian Amazon
E. P. Anderson and J. A. Maldonado-Ocampo

CORRECTIONS AND CLARIFICATIONS
693

BOOKS ET AL.
694 Play, Playfulness, Creativity and Innovation
P. Bateson and P. Martin, reviewed by G. R. Brown
695 Europa Report
S. Cordero, director; Gravity
A. Cuaron, director, reviewed by S. Hameed

POLICY FORUM
696 Hell and High Water: Practice-Relevant Adaptation Science
R. H. Moss et al.
>> Science Podcast

PERSPECTIVES
699 Fusion for Moving
G. A. Clawson
700 A Stem Cell Perspective on Cellular Engineering
S. Doulatov and G. Q. Daley
702 Quantum Mechanics Tackles Mechanics
K. Hammerer
>> Report p. 710
703 Cold-Atom Thermoelectrics
T. T. Heikkilä
>> Report p. 713
705 Genetics Driving Epigenetics
T. S. Furey and P. Sethupathy
>> Reports pp. 744, 747, and 750
706 Have Your PIC!
S. Malik and R. G. Roeder
>> Research Article p. 709

ON THE WEB THIS WEEK
>> Science Podcast
Listen to stories on characterizing a meteorite, using science to adapt to climate change, the other malaria, and more.

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

708 Epithelial Plasticity: A Common Theme in Embryonic and Cancer Cells
  M. A. Nieto
  Review Summary; for full text: http://dx.doi.org/10.1126/science.1234850

RESEARCH ARTICLE

709 Architecture of an RNA Polymerase II Transcription Pre-Initiation Complex
  K. Murakami et al.
  The yeast transcription pre-initiation complex has a bi-lobed structure that may reflect the assembly pathway of the complex.
  Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1238724

710 Entangling Mechanical Motion with Microwave Fields
  T. A. Palomaki et al.
  Quantum entanglement is demonstrated between a macroscopic mechanical oscillator and a microwave field.
  >> Perspective p. 702

716 Visualization and Quantification of Electrochemical and Mechanical Degradation in Li Ion Batteries
  M. Ebner et al.
  Synchrotron x-ray tomography can be used to study failure modes in an operating battery.
  >> Perspective p. 703

724 Asymmetric Distribution of Lunar Impact Basins Caused by Variations in Target Properties
  K. Miljković et al.
  Numerical simulations imply that lunar impact basins are not representative of the earliest inner solar system impact flux.

727 T,17 Cell Differentiation Is Regulated by the Circadian Clock
  X. Yu et al.
  Diurnal regulation of an immune cell lineage in the intestine protects against inflammatory disease in mice.

731 High-Resolution Mapping of the Spatial Organization of a Bacterial Chromosome
  T. B. K. Le et al.
  A bacterial chromosome is organized into self-interacting regions delimited by highly expressed genes.

734 Mitochondrial Fusion Directs Cardiomyocyte Differentiation via Calcinineurin and Notch Signaling
  A. Kasahara et al.
  Interrupting mitochondrial fusion inhibits cardiomyocyte differentiation by dysregulating a specific cell signaling pathway.

737 The Hippo Signaling Pathway Interacts with Ultracold Atoms
  Y. Kwon et al.

741 High-Speed Force Spectroscopy Unfolds Titin at the Velocity of Molecular Dynamics Simulations
  F. Rico et al.
  Experimental time scales previously accessible only to simulations provide insight into forced protein unfolding.

744 Coordinated Effects of Sequence Variation on DNA Binding, Chromatin Structure, and Transcription
  H. Kilsheimer et al.
  Human genetic variation results in coordinated allelic variation across molecular phenotypes.

747 Identification of Genetic Variants That Affect Histone Modifications in Human Cells
  G. McVicker et al.
  Human genetic variation affects transcription factor binding, leading to histone modifications.

750 Extensive Variation in Chromatin States Across Humans
  M. Kasowski et al.
  Variability among humans with different ancestry affects chromatin states and gene expression.

>> Perspective p. 705
Editor's Summary

This copy is for your personal, non-commercial use only.

Article Tools
Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/342/6159

Permissions
Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl