After 5 Years at Science
Bruce Alberts

A roundup of the week’s top stories

Review of Cloning Paper Prompts Questions

Visa Reform Advances in Senate as House Offers STEM Ideas

Italian Parliament Orders €3 Million Trial of Disputed Therapy

Divided Loyalties Land Scientists in Hot Water

Radiation Will Make Astronauts’ Trip to Mars Even Riskier

Science for All
A Role for Science in Poverty Alleviation?

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Giving Kids a Fair Chance
J. J. Heckman et al., reviewed by S. Bowles

Paleofantasy
M. Zuk, reviewed by C. Woods

Ethics and Genomic Incidental Findings
A. L. McGuire et al.

Patient Autonomy and Incidental Findings in Clinical Genomics
S. M. Wolf et al.

Vitamin Currency in a Lipid Exchange Market
B. Mesmin and B. Antonny

A New Twist on Cooperative Catalysis
C. S. Schindler and E. N. Jacobsen

What Are Climate Models Missing?
B. Stevens and S. Bony

Pebbles on Mars
D. J. Jerolmack

GATORs Take a Bite Out of mTOR
R. J. Shaw

Neuronal Birth to Cortical Circuitry
S. Anderson and D. Coulter

Structural MS Pulls Its Weight
M. Sharon

Students as Collaborators in Systems Biology Research
S. McClatchy et al.

Can science do more to help the world’s poor? India is a test bed for innovative approaches to poverty reduction. India’s wheat crop is critical to the nation’s food security. Farmers across the country now use their cell phones to send pest sightings and growing conditions to the Directorate of Wheat Research in Karnal, headed by Indu Sharma (pictured). See the Editorial on page 1015 and the News story on page 1032.

Photo: Pallava Bagla
An Adaptive Response to Uncertainty

depends on past conditions, may be an
Contrast effects, in which current behavior
J. M. McNamara
Generates Positive and Negative

The radiation dose on a round-trip to Mars
could represent a large fraction of the
The radiation dose on a round-trip to Mars

G.-H. Lee
Graphene and Grain Boundaries

Two catalysts independently set the chiral
sense of adjacent stereocenters in a
carbon–carbon bond-forming reaction.

S. Krautwald
et al.
α-Allylation of Branched Aldehydes

The prefusion conformation of respiratory
syncytial virus protein F has been trapped
in several specialized indexes.

J. S. McLellan
Neutralizing Antibody
Trimer Bound to a Prefusion-Specific

H. Kato
Protein CENP-C
Nucleosome Recognition by Centromere

N. Kono
Familial Vitamin E Deficiency
Phosphatidylinositol phosphates may play
a role in lipid-transfer protein–mediated
vitamin E efflux from hepatocytes.

S. Bergonzi
Flowering of Arabis alpina
to Winter Temperature in Perennial
Flowering of plants changes to winter

C.-M. Zhou
MicroRNAs regulate perennial flowering.

L. Bar-Peled
Activity for the Rag GTPases That Signal
A tumor suppressor complex with GAP

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M. Galetti
Rapid Evolutionary Changes in Seed Size
Local extinction of large fruit-eating birds
selects for reduction of seed size in a tropical
forest palm.

D. P. Mersch et al.
Monitoring of individually tagged worker ants
revealed three distinct groups that greatly
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