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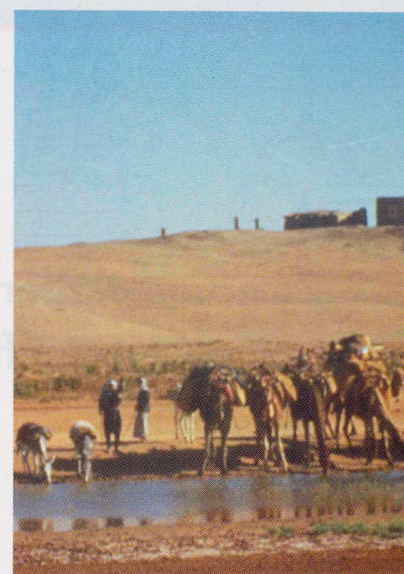
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Hurricane Ike caused extensive damage throughout the Caribbean and Gulf of Mexico regions in September 2008, as shown here at Pinar del Rio in western Cuba. A state-of-the-art computer model projects that global warming should cause an increase in the frequency of the most intense western Atlantic hurricanes, like Ike, during the 21st century. See page 454.

Photo: Claudia Daut/Reuters/Landov

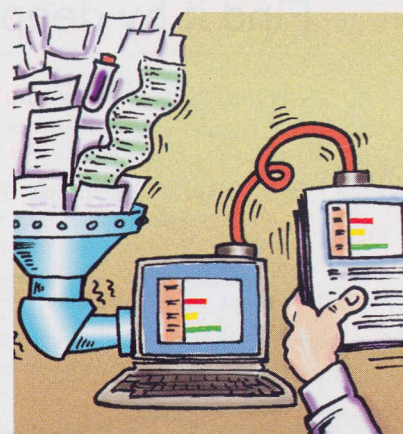
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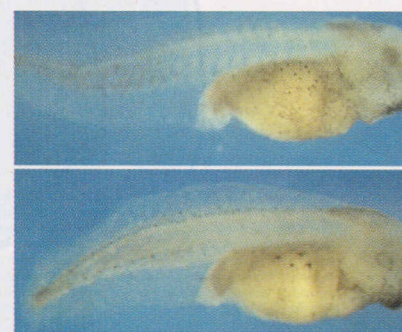
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**Repulsion of Superinfecting Virions:
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V. Doceul et al.

Early in infection, vaccinia virus exploits the actin cytoskeleton to promote rapid cell-to-cell spread.
10.1126/science.1183173

>> *Science Podcast*

**The *Lmo2* Oncogene Initiates Leukemia
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Expression of an oncogene confers self-renewal activity to committed T cells in the thymus long before disease onset.

10.1126/science.1182378

**Climate-Modulated Channel Incision and
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L. Grant Ludwig et al.

10.1126/science.1182837

**Slip in the 1857 and Earlier Large Earthquakes
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O. Zielke et al.

The historical behavior of the San Andreas fault may have been dominated by smaller, more frequent slip events.

10.1126/science.1182781

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Highlights From Our Daily News Coverage

Fish May Not Have Evolved Gills to Breathe

New study suggests a surprising reason for adaptation.

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Suspension Bridge**

They may be pretty, but simple swooping bridge cables are not the best design.

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**EDITORIAL GUIDE: Focus Issue—External and
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J. F. Foley and N. R. Gough

Host defense mechanisms are modulated by host-derived and pathogen-derived factors.

**RESEARCH ARTICLE: Distinct Signal Codes
Generate Dendritic Cell Functional Plasticity**

K. Arima et al.

The cytokine TSLP triggers distinct signals in dendritic cells that program a T helper 2 (T_H2)-type response.

**RESEARCH ARTICLE: Attenuation of Rabies
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Survival of rabies virus-infected neurons depends on a single amino acid in the PDZ-binding site of a viral protein.

**PERSPECTIVE: TAK-1 IKK Activation—
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S. M. Wuerzberger-Davis and S. Miyamoto

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**REVIEW: What Is the Function of the Dendritic
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A. Weber et al.

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**CONNECTIONS MAP OVERVIEW: Interleukin-1 β
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A. Weber et al.

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SCIENCE CAREERS

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**SPECIAL QUANTITATIVE BIOMEDICINE ISSUE
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S. Gaidos

Physicists and mathematicians are finding new ways to apply quantitative skills to biomedical sciences.

**Informatics Careers Take Shape in
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B. Vastag

Electronic patient data and research repositories mean new opportunities in medical informatics.

Statistics Serving Biomedicine

E. Pain

Spanish statistician David Rossell supports other biomedical scientists while pursuing his own research.

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**PERSPECTIVE: Optimizing the Delivery
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Y. Cao and R. Langer

Optimizing antiangiogenic therapy requires the development of new drug delivery systems.

**COMMENTARY: Meeting the Governance Challenges
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S. M. Fullerton et al.

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**RESEARCH ARTICLE: Vaccines with MF59 Adjuvant
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An oil-based adjuvant improves the efficacy of an H1N1 vaccine.

**RESEARCH ARTICLE: Identification of a Class of
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N.-J. Cho et al.

A newly discovered activity in hepatitis C virus gives rise to a distinct class of antiviral compounds.

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