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COVER
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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C. Prehald et al.
Survival of rabies virus–infected neurons depends on a single amino acid in the PDZ-binding site of a viral protein.

PERSPECTIVE: TAK-lung IKK Activation—"Ub" the Judge
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IL-1β-dependent activation of NF-κB occurs in two distinct stages.

REVIEW: What Is the Function of the Dendritic Cell Side of the Immunological Synapse?
J. L. Rodríguez-Fernández et al.
The immunological synapse organizes signaling responses in dendritic cells, as well as in T cells.

CONNECTIONS MAP OVERVIEW: Interleukin-1 (IL-1) Pathway
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CONNECTIONS MAP OVERVIEW: Interleukin-1β (IL-1β) Processing Pathway
A. Weber et al.
The NALP3 inflammasome pathway controls processing and release of interleukin-1β.

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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 of Cancer Drugs that Block Angiogenesis
Y. Cao and R. Langer
Optimizing antiangiogenic therapy requires the development of new drug delivery systems.

COMMENTARY: Meeting the Governance Challenges of Next-Generation Biorepository Research
S. M. Fullerton et al.
Requisites for biorepository governance need to keep pace with developments in translational science.

RESEARCH ARTICLE: Vaccines with MF59 Adjuvant Expand the Antibody Repertoire to Target Protective Sites of Pandemic H5N1 Influenza Virus
S. Khurana et al.
An oil-based adjuvant improves the efficacy of an H1N1 vaccine.

RESEARCH ARTICLE: Identification of a Class of HCV Inhibitors Directed Against the Nonstructural Protein NS4B
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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