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Cristine Russell

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COVER
The current global outbreak of influenza A (H1N1) in humans appears to have originated in Mexico from infected pigs.
The cover portrait is of “Patient Zero” from La Gloria, Veracruz, who is now well. Fraser et al. (page 1557) report on an initial epidemiological analysis and offer baseline estimates for transmissibility while acknowledging the prevailing uncertainties at this early stage of the epidemic.
Photo: Erich Schlegel/Rapport/Newscom

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D. O. Wang et al.
Live-cell microscopy reveals local translation during long-term facilitation of Aplysia sensory-motor synapses.
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1557 Pandemic Potential of a Strain of Influenza A (H1N1): Early Findings
C. Fraser et al.
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M. Peters-Golden

Distinct anchoring proteins enable cAMP signaling to selectively modulate macrophage responses to pathogens.

**REVIEW:** The Vitamin D Sterol–Vitamin D Receptor Enzyme Model Offers Unique Insights into Both Genomic and Rapid-Response Signaling

M. T. Mizwicki and A. W. Norman

Different vitamin D conformations binding to different pockets of a flexible receptor could elicit distinct responses.

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R. Cheong et al.

This method for analyzing individual cells reveals differences in responses masked by averaging across the population.

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***GEOLOGY***

**COMMENT:** High-Content Analysis of Cell Signaling and Drug Development

M. T. Mizwicki and A. W. Norman

Different vitamin D conformations binding to different pockets of a flexible receptor could elicit distinct responses.

**COMMENT:** Enzyme Model Offers Unique Insights into Both Genomic and Rapid-Response Signaling

M. T. Mizwicki and A. W. Norman

Grace and other analogs enable cAMP signaling to selectively modulate macrophage responses to pathogens.

**PROTOCOL:** Using a Microfluidic Device for High-Content Analysis of Cell Signaling

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This method for analyzing individual cells reveals differences in responses masked by averaging across the population.