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QuteMol-rendered image of human rhinovirus 3 (Protein Data Bank ID: 1rhi) illustrating virion topography. Red, blue, and yellow denote the three major surface capsid proteins; examples of RNA regional motifs are colored according to predicted base-pairing fidelity. Sequence diversity within the major surface proteins contributes to the wide range of immunogenic serotypes characteristic of the “common cold.” See page 55.

Image: H. Adam Steinberg and Jean-Yves Sgro/University of Wisconsin–Madison

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Extinction-Reconsolidation Boundaries: Key to Persistent Attenuation of Fear Memories
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Behavioral manipulations can reverse a learned fearful association in rats.
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Understanding the Spreading Patterns of Mobile Phone Viruses
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Sandpipers boost their fitness by gorging on omega-3–rich shrimp.

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RESEARCH ARTICLE: Phosphorylation of Nogo Receptors Suppresses Nogo Signaling, Allowing Neurite Regeneration
Y. Takei
Extracellular phosphorylation of Nogo receptors by casein kinase II blocks agonist binding.

PERSPECTIVE: Reversing DNA Methylation: New Insights from Neuronal Activity–Induced Gadd45b in Adult Neurogenesis
H. Wu and Y. E. Sun
Gadd45b causes epigenetic modification of promoters for Bdnf and Fgf genes in postmitotic neurons in response to neuronal activity.

PERSPECTIVE: Syndecans Shed Their Reputation as Inert Molecules
M. D. Bass et al.
The shedding of the extracellular domain of a transmembrane proteoglycan can be controlled by its cytoplasmic domain.

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