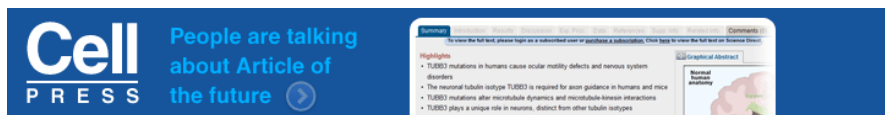


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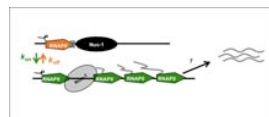
**Volume 98 Issue 8: April 21, 2010**  
 Next issue: May 5, 2010

On the cover: Human Jurkat T-lymphocytes infected with a single integrated copy of the HIV-1 promoter expressing GFP display significant variation or noise. Gene-expression noise has been reported to play an important role in HIV-1 entry into latency (or dormancy), which remains the greatest barrier to eradicating the virus from patients. By quantifying the variance in GFP expression between different cells, the molecular source of noise in HIV-1 gene expression has been pinpointed. See the article by [Singh et al.](#) for more details.

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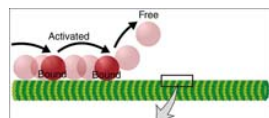
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Abhyudai Singh, Brandon Razoooky, Chris D. Cox, Michael L. Simpson, and Leor S. Weinberger



#### Muscle, Motility, and Motor Proteins

##### One-Dimensional Brownian Motion of Charged Nanoparticles along Microtubules: A Model System for Weak Binding Interactions

Itsushi Minoura, Eisaku Katayama, Ken Sekimoto, and Etsuko Muto

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Andreas Biebricher, Wolfgang Wende, Christophe Escudé, Alfred Pingoud, and Pierre Desbiolles

##### Long-Range Coupling in an Allosteric Receptor Revealed by Mutant Cycle Analysis

Kristin R. Gleitsman, Jai A.P. Shanata, Shawnalea J. Frazier, Henry A. Lester, and Dennis A. Dougherty

##### Ultramicroscopy Reveals Axonal Transport Impairments in Cortical Motor Neurons at Prion Disease

Vladimir Ermolayev, Mike Friedrich, Revaz Nozadze, Toni Cathomen, Michael A. Klein, Gregory S. Harms, and Eckhard Flechsig

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Robert Schulz and Ulrich Kleinekathöfer

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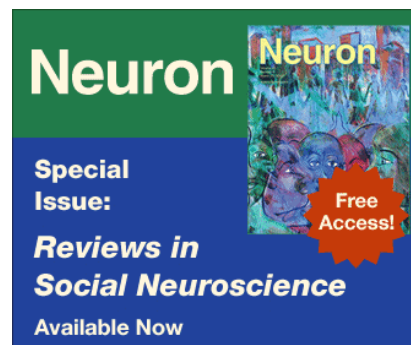
Thorsten Ritz, Roswitha Wiltschko, P.J. Hore, Christopher T. Rodgers, Katrin Stapput, Peter Thalau, Christiane R. Timmel, and Wolfgang Wiltschko

##### Time Course and Strain Dependence of ADP Release during Contraction of Permeabilized Skeletal Muscle Fibers

Timothy G. West, Gabor Hild, Verl B. Siththanandan, Martin R. Webb, John E.T. Corrie, and Michael A. Ferenczi

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