

Contents:

The Journal of Cell Biology

Volume 146, Number 3, August 9, 1999

In Brief

Cholesterol in receptor complex assembly. Transcription and processing sites within the nucleus. Coordination of mitosis.

A.W. Dove

Regular Articles

- 531 **Association of chromosome territories with the nuclear matrix: Disruption of human chromosome territories correlates with the release of a subset of nuclear matrix proteins.**
H. Ma, A.J. Siegel, and R. Berezney
- 543 **Three-dimensional visualization of transcription sites and their association with splicing factor-rich nuclear speckles.**
X. Wei, S. Somanathan, J. Samarabandu, and R. Berezney
- 559 **Localization in the nucleolus and coiled bodies of protein subunits of the ribonucleoprotein ribonuclease P.**
N. Jarrous, J.S. Wolenski, D. Wesolowski, C. Lee, and S. Altman
- 573 **Cdc25B and Cdc25C differ markedly in their properties as initiators of mitosis.**
C. Karlsson, S. Katich, A. Hagting, I. Hoffmann, and J. Pines
- 585 **The sudden recruitment of γ -tubulin to the centrosome at the onset of mitosis and its dynamic exchange throughout the cell cycle, do not require microtubules.**
A. Khodjakov and C.L. Rieder
- 597 **Cytoplasmic dynein is required for the nuclear attachment and migration of centrosomes during mitosis in *Drosophila*.**
J.T. Robinson, E.J. Wojcik, M.A. Sanders, M. McGrail, and T.S. Hays
- 609 **Two compartments for insulin-stimulated exocytosis in 3T3-L1 adipocytes defined by endogenous ACRP30 and GLUT4.**
J.S. Bogan and H.F. Lodish
- 621 **Type 3 and type 1 ryanodine receptors are localized in triads of the same mammalian skeletal muscle fibers.**
B.E. Flucher, A. Conti, H. Takeshima, and V. Sorrentino
- 631 **I-Band titin in cardiac muscle is a three-element molecular spring and is critical for maintaining thin filament structure.**
W.A. Linke, D.E. Rudy, T. Centner, M. Gautel, C. Witt, S. Labeit, and C.C. Gregorio
- 645 **Insoluble γ -tubulin-containing structures are anchored to the apical network of intermediate filaments in polarized CACO-2 epithelial cells.**
P.J.I. Salas
- 659 **Myotactin, a novel hypodermal protein involved in muscle-cell adhesion in *Caenorhabditis elegans*.**
M.C. Hresko, L.A. Schriefer, P. Shrimankar, and R.H. Waterston
- 673 **Role of cholesterol in formation and function of a signaling complex involving $\alpha v\beta 3$, integrin-associated protein (CD47), and heterotrimeric G proteins.**
J.M. Green, A. Zhelesnyak, J. Chung, F.P. Lindberg, M. Sarfati, W.A. Frazier, and E.J. Brown
- 683 **Connexin-occludin chimeras containing the ZO-binding domain of occludin localize at MDCK tight junctions and NRK cell contacts.**
L.L. Mitic, E.E. Schneeberger, A.S. Fanning, and J.M. Anderson
- 695 **ADDITIONS AND CORRECTIONS**

Cover picture: Disruption of a unique region (N2B) within the giant protein titin specifically disrupts thin filaments (shown in red, staining for actin filaments), but not thick filaments (shown in green, staining for myosin) in cardiac myocytes. See related article in this issue by Linke et al., 631–644.