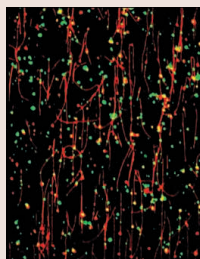


Journal of Cell Science

Volume 116 (13) 2003



Cover: Taxol-stabilized microtubules were polymerized from rhodamine-labeled tubulin and were bound to the surface of a glass microchamber. Endocytic vesicles isolated from rat liver 5 minutes after intravenous injection of Texas-Red asialoorosomucoid were perfused into the chamber, where they bound to the microtubules. Immunodetection of Rab4 (green) revealed a high degree of colocalization of early endocytic vesicles (red) with this protein, consistent with the hypothesis that Rab4 serves as a molecular switch that activates minus-end kinesin-based motility, facilitating early endocytic vesicle fission and consequent receptor-ligand segregation. See article by E. Bananis et al. (pp. 2749-2761).

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Research Articles

- 2635 **Centrin deficiency in *Chlamydomonas* causes defects in basal body replication, segregation and maturation.** Koblenz, B., Schoppmeier, J., Grunow, A. and Lechtreck, K.-F.
- 2647 **Unexpected roles of a *Dictyostelium* homologue of eukaryotic EF-2 in growth and differentiation.** Watanabe, S., Sakurai, K., Amagai, A. and Maeda, Y.
- 2655 **A 48 kDa integral membrane phosphoprotein orchestrates the cytoskeletal dynamics that generate amoeboid cell motility in *Ascaris* sperm.** LeClaire, L. L., III, Stewart, M. and Roberts, T. M.
- 2665 **Glutamate-mediated $[Ca^{2+}]_i$ dynamics in spontaneously firing dopamine neurons of the rat substantia nigra pars compacta.** Choi, Y. M., Kim, S. H., Uhm, D. Y. and Park, M. K.
- 2677 **CD105 prevents apoptosis in hypoxic endothelial cells.** Li, C., Issa, R., Kumar, P., Hampson, I. N., Lopez-Novoa, J. M., Bernabeu, C. and Kumar, S.
- 2687 **S100A13 mediates the copper-dependent stress-induced release of IL-1 α from both human U937 and murine NIH 3T3 cells.** Mandinova, A., Soldi, R., Graziani, I., Bagalá, C., Bellum, S., Landriscina, M., Tarantini, F., Prudovsky, I. and Maciag, T.
- 2697 **Regulation of EDEN-dependent deadenylation of Aurora A/Eg2-derived mRNA via phosphorylation and dephosphorylation in *Xenopus laevis* egg extracts.** Detivaud, L., Pascreau, G., Karaïskou, A., Osborne, H. B. and Kubiak, J. Z.
- 2707 **Pollen tubes exhibit regular periodic membrane trafficking events in the absence of apical extension.** Parton, R. M., Fischer-Parton, S., Trewavas, A. J. and Watahiki, M. K.
- 2721 **Fission yeast *meu14⁺* is required for proper nuclear division and accurate forespore membrane formation during meiosis II.** Okuzaki, D., Satake, W., Hirata, A. and Nojima, H.
- 2737 **$\alpha\beta 1$ -integrin regulates hair follicle but not interfollicular morphogenesis in adult epidermis.** Conti, F. J. A., Rudling, R. J., Robson, A. and Hodivala-Dilke, K. M.
- 2749 **Regulation of early endocytic vesicle motility and fission in a reconstituted system.** Bananis, E., Murray, J. W., Stockert, R. J., Satir, P. and Wolkoff, A. W.

Sticky Wicket

2599 **Getting the word out.** Mole

Commentaries

- 2603 **Formins: signaling effectors for assembly and polarization of actin filaments.** Evangelista, M., Zigmond, S. and Boone, C.
- 2613 **Regulation of F-actin-dependent processes by the Abl family of tyrosine kinases.** Woodring, P. J., Hunter, T. and Wang, J. Y. J.
- 2627 **Secreted antagonists of the Wnt signalling pathway.** Kawano, Y. and Kypta, R.

- 2763 **Mitofusin-1 protein is a generally expressed mediator of mitochondrial fusion in mammalian cells.** Santel, A., Frank, S., Gaume, B., Herrler, M., Youle, R. J. and Fuller, M. T.
- 2775 **Specific inhibition of pathological prion protein accumulation by small interfering RNAs.** Daude, N., Marella, M. and Chabry, J.
- 2781 **Temporally and spatially selective loss of Rec8 protein from meiotic chromosomes during mammalian meiosis.** Lee, J., Iwai, T., Yokota, T. and Yamashita, M.
- 2791 **The type 3 inositol 1,4,5-trisphosphate receptor is concentrated at the tight junction level in polarized MDCK cells.** Colosetti, P., Tunwell, R. E. A., Cruttwell, C., Arsanto, J.-P., Mauger, J.-P. and Cassio, D.
- 2805 **Ectopic expression of syntaxin 1 in the ER redirects TI-VAMP- and cellubrevin-containing vesicles.** Martinez-Arca, S., Proux-Gillardeaux, V., Alberts, P., Louvard, D. and Galli, T.



Supplemental data available online



Movies available online