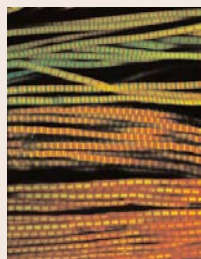


# Journal of Cell Science

Volume 118 (17) 2005



**Cover:** Three different GFPactin paralogues expressed in the indirect flight muscles of adult *Drosophila* show strikingly different incorporation into the myofibrillar structure. GFPactins are shown in green and staining for F-actin with phalloidin is in red. See article by K. Röper et al. (pp. 3937-3948).

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## Research Articles

- 3839 **PCTAIRE protein kinases interact directly with the COPII complex and modulate secretory cargo transport.** Palmer, K. J., Konkel, J. E. and Stephens, D. J.
- 3849 **Calmodulin-dependent protein kinase II, and not protein kinase C, is sufficient for triggering cell-cycle resumption in mammalian eggs.** Madgwick, S., Levasseur, M. and Jones, K. T.
- 3861 **Distinctive nuclear organisation of centromeres and regions involved in pluripotency in human embryonic stem cells.** Wiblin, A. E., Cui, W., Clark, A. J. and Bickmore, W. A.
- 3869 **Different intracellular trafficking of FGF1 endocytosed by the four homologous FGF receptors.** Haugsten, E. M., Sørensen, V., Brech, A., Olsnes, S. and Wesche, J.
- 3883 **Modulating the strength of cadherin adhesion: evidence for a novel adhesion complex.** Kim, Y. J., Sauer, C., Testa, K., Wahl, J. K., Svoboda, R. A., Johnson, K. R., Wheelock, M. J. and Knudsen, K. A.
- 3895 **Quantitative analysis of changes in spatial distribution and plus-end geometry of microtubules involved in plant-cell cytokinesis.** Austin, J. R., II, Seguí-Simarro, J. M. and Staehelin, L. A.
- 3905 **ER stress and SREBP-1 activation are implicated in  $\beta$ -cell glucolipotoxicity.** Wang, H., Kouri, G. and Wollheim, C. B.
- 3917 **Extra-mitochondrial localisation of frataxin and its association with IscU1 during enterocyte-like differentiation of the human colon adenocarcinoma cell line Caco-2.** Acquaviva, F., De Biase, I., Nezi, L., Ruggiero, G., Tatangelo, F., Pisano, C., Monticelli, A., Garbi, C., Acquaviva, A. M. and Cocozza, S.
- 3925 **Neurogenic potential of human mesenchymal stem cells revisited: analysis by immunostaining, time-lapse video and microarray.** Bertani, N., Malatesta, P., Volpi, G., Sonogo, P. and Perris, R.
- 3937 **Contribution of sequence variation in *Drosophila* actins to their incorporation into actin-based structures in vivo.** Röper, K., Mao, Y. and Brown, N. H.
- 3949  **$\alpha_3\beta_3$ -integrin-dependent activation of focal adhesion kinase mediates NF- $\kappa$ B activation and motogenic activity by HIV-1 Tat in endothelial cells.** Urbinati, C., Bugatti, A., Giacca, M., Schlaepfer, D., Presta, M. and Rusnati, M.
- 3959 **A novel dileucine lysosomal-sorting-signal mediates intracellular EGF-receptor retention independently of protein ubiquitylation.** Tsacoumango, A., Kil, S. J., Ma, L., Sönnichsen, F. D. and Carlin, C.

## Sticky Wicket

3817 **The opposite of eureka II: nature.** Mole

## Commentaries

- 3819 **Functions of SNAREs in intracellular membrane fusion and lipid bilayer mixing.** Ungermann, C. and Langosch, D.
- 3829 **Regulating cell migration: calpains make the cut.** Franco, S. J. and Huttenlocher, A.

- 3973 **Exploiting nuclear duality of ciliates to analyse topological requirements for DNA replication and transcription.** Postberg, J., Alexandrova, O., Cremer, T. and Lipps, H. J.
- 3985 **Import of rat mitochondrial citrate carrier (CIC) at increasing salt concentrations promotes presequence binding to import receptor Tom20 and inhibits membrane translocation.** Zara, V., Ferramosca, A., Papatheodorou, P., Palmieri, F. and Rassow, J.
- 3997 **Polarized downregulation of the paxillin-p130<sup>CAS</sup>-Rac1 pathway induced by shear flow.** Zaidel-Bar, R., Kam, Z. and Geiger, B.
- 4009 **Evidence for the presence of a low-mass  $\beta$ 1 integrin on the cell surface.** Meng, X., Cheng, K., Krohkin, O., Mould, A. P., Humphries, M. J., Ens, W., Standing, K. and Wilkins, J. A.
- 4017 **The nuclear-envelope protein and transcriptional repressor LAP2 $\beta$  interacts with HDAC3 at the nuclear periphery, and induces histone H4 deacetylation.** Somech, R., Shaklai, S., Geller, O., Amariglio, N., Simon, A. J., Rechavi, G. and Gal-Yam, E. N.
- 4027 **Transition from non-motile behaviour to directed migration during early PGC development in zebrafish.** Blaser, H., Eisenbeiss, S., Neumann, M., Reichman-Fried, M., Thisse, B., Thisse, C. and Raz, E.
- 4039 **Roles of ARFRP1 (ADP-ribosylation factor-related protein 1) in post-Golgi membrane trafficking.** Shin, H.-W., Kobayashi, H., Kitamura, M., Waguri, S., Suganuma, T., Uchiyama, Y. and Nakayama, K.
- 4049 **PATJ connects and stabilizes apical and lateral components of tight junctions in human intestinal cells.** Michel, D., Arsanto, J.-P., Massey-Harroche, D., Béclin, C., Wijnholds, J. and Le Bivic, A.
- 4059 **Active relocation of chromatin and endoplasmic reticulum into blebs in late apoptotic cells.** Lane, J. D., Allan, V. J. and Woodman, P. G.

## Erratum

- 4073  **$\alpha$ -Synuclein activation of protein phosphatase 2A reduces tyrosine hydroxylase phosphorylation in dopaminergic cells.** Peng, X. M., Tehrani, R., Dietrich, P., Stefanis, L. and Perez, R. G.