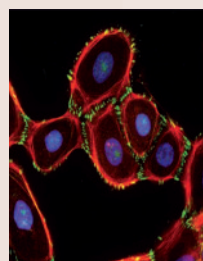


Journal of Cell Science

Volume 118 (4) 2005



Cover: Association of migfilin with cell-cell and cell-matrix adhesions. Triton X-100-extracted human HaCat keratinocytes were co-stained with monoclonal anti-migfilin antibody (green), Rhodamine-conjugated phalloidin (red) and Hoechst dye 33258 (blue). Migfilin forms detergent-resistant, discrete clusters that associate with actin cytoskeleton at both cell-cell and cell-matrix adhesions. A small fraction of migfilin was also detected in the nuclei. See article by Gkretsi et al. (pp. 697-710)

jcs.biologists.org

Research Articles

- 673 **Nesprin-2 is a multi-isomeric protein that binds lamin and emerin at the nuclear envelope and forms a subcellular network in skeletal muscle.** Zhang, Q., Ragnauth, C. D., Skepper, J. N., Worth, N. F., Warren, D. T., Roberts, R. G., Weissberg, P. L., Ellis, J. A. and Shanahan, C. M.
- 689 **RNAi of FACE1 protease results in growth inhibition of human cells expressing lamin A: implications for Hutchinson-Gilford progeria syndrome.** Gruber, J., Lampe, T., Osborn, M. and Weber, K.
- 697 **Physical and functional association of migfilin with cell-cell adhesions.** Gkretsi, V., Zhang, Y., Tu, Y., Chen, K., Stolz, D. B., Yang, Y., Watkins, S. C. and Wu, C.
- 711 **The mechanism of cell adhesion by classical cadherins: the role of domain 1.** Harrison, O. J., Corps, E. M., Berge, T. and Kilshaw, P. J.
- 723 **Protein kinase CK2 phosphorylates Sec63p to stimulate the assembly of the endoplasmic reticulum protein translocation apparatus.** Wang, X. and Johnsson, N.
- 733 **Epithelial re-organization and dynamics of progression through mitosis in *Drosophila* separase complex mutants.** Pandey, R., Heidmann, S. and Lehner, C. F.
- 743 **Repeated exposure of human skin fibroblasts to UVB at subcytotoxic level triggers premature senescence through the TGF- β 1 signaling pathway.** Debacq-Chainiaux, F., Borlon, C., Pascal, T., Royer, V., Eliaers, F., Ninane, N., Carrard, G., Friguet, B., de Longueville, F., Boffe, S., Remacle, J. and Toussaint, O.
- 759 **Integrin-dependent interaction of lipid rafts with the actin cytoskeleton in activated human platelets.** Bodin, S., Soulet, C., Tronchère, H., Sié, P., Gachet, C., Plantavid, M. and Payrastre, B.
- 771 **The Tie-2 ligand Angiopoietin-2 destabilizes quiescent endothelium through an internal autocrine loop mechanism.** Scharpfenecker, M., Fiedler, U., Reiss, Y. and Augustin, H. G.
- 781 **Characterization of human epiplakin: RNAi-mediated epiplakin depletion leads to the disruption of keratin and vimentin IF networks.** Jang, S.-I., Kalinin, A., Takahashi, K., Marekov, L. N. and Steinert, P. M.

Cell Science at a Glance

- 651 **Actin-binding proteins.** Winder, S. J. and Ayscough, K. R.

Women in Cell Science

- 655 **Irene Leigh.** Watt, F. M.

Commentaries

- 659 **Migfilin and its binding partners: from cell biology to human diseases.** Wu, C.
- 665 **Signaling in stem cell niches: lessons from the *Drosophila* germline.** Yamashita, Y. M., Fuller, M. T. and Jones, D. L.

- 795 **Raf/MEK/MAPK signaling stimulates the nuclear translocation and transactivating activity of FOXM1c.** Ma, R. Y. M., Tong, T. H. K., Cheung, A. M. S., Tsang, A. C. C., Leung, W. Y. and Yao, K.-M.
- 807 **Regulation of cortactin/dynamin interaction by actin polymerization during the fission of clathrin-coated pits.** Zhu, J., Zhou, K., Hao, J.-J., Liu, J., Smith, N. and Zhan, X.
- 819 **Ectopic mTERT expression in mouse embryonic stem cells does not affect differentiation but confers resistance to differentiation- and stress-induced p53-dependent apoptosis.** Lee, M. K., Hande, M. P. and Sabapathy, K.
- 831 **Functional analysis of TbARL1, an N-myristoylated Golgi protein essential for viability in bloodstream trypanosomes.** Price, H. P., Panethymitaki, C., Goulding, D. and Smith, D. F.