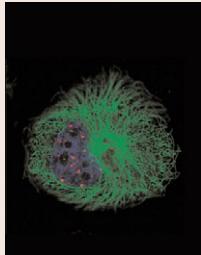


Journal of Cell Science

Volume 118 (15) 2005



Cover: The confocal image demonstrates that the immunolabeling of rp3 (red), previously recognized as a dynein light chain, is also present in the nucleus of HeLa cells. The cell was also counterstained with anti-tubulin antibody (green) and nuclear dye DAPI (blue). See article by Ting-Yu Yeh et al. (pp. 3431-3443).

jcs.biologists.org

Research Articles

- 3233 **SPO11 is required for sex-body formation, and Spo11 heterozygosity rescues the prophase arrest of *Atrm*^{-/-} spermatocytes.** Bellani, M. A., Romanienko, P. J., Cairatti, D. A. and Camerini-Otero, R. D.
- 3247 **Decreased origin usage and initiation of DNA replication in haploinsufficient HCT116 Ku80^{+/−} cells.** Sibani, S., Price, G. B. and Zannis-Hadjopoulos, M.
- 3263 **A novel protein kinase C α -dependent signal to ERK1/2 activated by $\alpha_v\beta_3$ integrin in osteoclasts and in Chinese hamster ovary (CHO) cells.** Rucci, N., DiGiacinto, C., Orrù, L., Millimaggi, D., Baron, R. and Teti, A.
- 3277 **Functional interactions with Pit-1 reorganize co-repressor complexes in the living cell nucleus.** Voss, T. C., Demarco, I. A., Booker, C. F. and Day, R. N.
- 3289 **Characteristics of subepithelial fibroblasts as a mechano-sensor in the intestine: cell-shape-dependent ATP release and P2Y1 signaling.** Furuya, K., Sokabe, M. and Furuya, S.
- 3305 **Regulation of mitosis in response to damaged or incompletely replicated DNA require different levels of Grapes (*Drosophila Chk1*).** Purdy, A., Uyetake, L., Cordeiro, M. G. and Su, T. T.
- 3317 **A NIMA-related kinase, Cnk2p, regulates both flagellar length and cell size in *Chlamydomonas*.** Bradley, B. A. and Quarmby, L. M.
- 3327 **The role of regulatory domain interactions in UNC-43 CaMKII localization and trafficking.** Umemura, T., Rapp, P. and Rongo, C.
- 3339 **Cationic cell-penetrating peptides interfere with TNF signalling by induction of TNF receptor internalization.** Fotin-Mleczek, M., Welte, S., Mader, O., Duchardt, F., Fischer, R., Hufnagel, H., Scheurich, P. and Brock, R.
- 3353 **G-protein-coupled glucocorticoid receptors on the pituitary cell membrane.** Maier, C., Rünzler, D., Schindelar, J., Grabner, G., Waldhäusl, W., Köhler, G. and Luger, A.
- 3363 **Signaling interactions between squamous and columnar epithelia of the *Drosophila* wing disc.** Pallavi, S. K. and Shashidhara, L. S.
- 3371 **Upregulation of MMP-9 in MDCK epithelial cell line in response to expression of the Snail transcription factor.** Jordà, M., Olmeda, D., Vinyals, A., Valero, E., Cubillo, E., Llorens, A., Cano, A. and Fabra, A.
- 3387 **The lysosomal cysteine protease cathepsin L regulates keratinocyte proliferation by control of growth factor recycling.** Reinheckel, T., Hagemann, S., Dollwet-Mack, S., Martinez, E., Lohmüller, T., Zlatkovic, G., Tobin, D. J., Maas-Szabowski, N. and Peters, C.
- 3397 **Plastid segregation and cell division in the apicomplexan parasite *Sarcocystis neurona*.** Vaishnava, S., Morrison, D. P., Gajj, R. Y., Murray, J. M., Entzeroth, R., Howe, D. K. and Striepen, B.
- 3409 ***Hansenula polymorpha* Pex20p is an oligomer that binds the peroxisomal targeting signal 2 (PTS2).** Otzen, M., Wang, D., Lunenborg, M. G. J. and van der Klei, I. J.
- 3419 **The inner nuclear membrane protein Sun1 mediates the anchorage of Nesprin-2 to the nuclear envelope.** Padmakumar, V. C., Libotte, T., Lu, W., Zaim, H., Abraham, S., Noegel, A. A., Gotzmann, J., Foissner, R. and Karakesisoglou, I.
- 3431 **Dynein light chain rp3 acts as a nuclear matrix-associated transcriptional modulator in a dynein-independent pathway.** Yeh, T.-Y., Chuang, J.-Z. and Sung, C.-H.
- 3445 **Calcium mobilization stimulates *Dictyostelium discoideum* shear-flow-induced cell motility.** Fache, S., Dalous, J., Engelund, M., Hansen, C., Chamaraux, F., Fourcade, B., Satre, M., Devreotes, P. and Bruckert, F.
- 3459 **Insights into the molecular basis of the differing susceptibility of varying cell types to the toxicity of amyloid aggregates.** Cecchi, C., Baglioni, S., Fiorillo, C., Pensalfini, A., Liguri, G., Nosi, D., Rigacci, S., Bucciantini, M. and Stefani, M.
- 3471 **Wounding activates p38 MAP kinase and activation transcription factor 3 in leading keratinocytes.** Harper, E. G., Alvares, S. M. and Carter, W. G.
- 3487 **Tumour necrosis factor α confers an invasive, transformed phenotype on mammary epithelial cells.** Montesano, R., Soulié, P., Eble, J. A. and Carrozzino, F.
- 3501 **Initiation and termination of NF- κ B signaling by the intracellular protozoan parasite *Toxoplasma gondii*.** Shapira, S., Harb, O. S., Margarit, J., Matrajt, M., Han, J., Hoffmann, A., Freedman, B., May, M. J., Roos, D. S. and Hunter, C. A.
- 3509 **Coxsackievirus-adenovirus receptor (CAR) is essential for early embryonic cardiac development.** Dorner, A. A., Wegmann, F., Butz, S., Wolburg-Buchholz, K., Wolburg, H., Mack, A., Nasdala, I., August, B., Westermann, J., Rathjen, F. G. and Vestweber, D.
- 3523 **α -Synuclein activation of protein phosphatase 2A reduces tyrosine hydroxylase phosphorylation in dopaminergic cells.** Peng, X. M., Tehranian, R., Dietrich, P., Stefanis, L. and Perez, R. G.
- 3531 **Improved muscle healing through enhanced regeneration and reduced fibrosis in myostatin-null mice.** McCroskery, S., Thomas, M., Platt, L., Hennebry, A., Nishimura, T., McLeay, L., Sharma, M. and Kambadur, R.
- 3543 **Apoptosis in budding yeast caused by defects in initiation of DNA replication.** Weinberger, M., Ramachandran, L., Feng, L., Sharma, K., Sun, X., Marchetti, M., Huberman, J. A. and Burhans, W. C.
- 3555 **The Arf GAPs AGAP1 and AGAP2 distinguish between the adaptor protein complexes AP-1 and AP-3.** Nie, Z., Fei, J., Premont, R. T. and Randazzo, P. A.