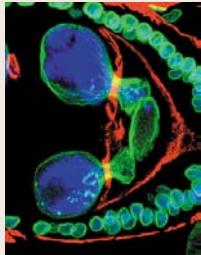


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Cover: Two deformed *Drosophila* nurse cell nuclei protruding through the ring canals toward the oocyte in a *JIL-1* kinase mutant egg chamber. The confocal image is a triple labeling of lamin (green), actin (red) and DNA (blue). See article by X. Bao et al. (pp. 5079-5087).

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Research Articles

- 4959 Charged bipolar suramin derivatives induce aggregation of the prion protein at the cell surface and inhibit PrP^{Sc} replication. Nunziante, M., Kehler, C., Maas, E., Kassack, M. U., Groschup, M. and Schätzl, H. M.
- 4975 The transmembrane domain is essential for the microtubular trafficking of membrane type-1 matrix metalloproteinase (MT1-MMP). Remacle, A. G., Rozanov, D. V., Baciu, P. C., Chekanov, A. V., Golubkov, V. S. and Strongin, A. Y.
- 4985 Set1- and Clb5-deficiencies disclose the differential regulation of centromere and telomere dynamics in *Saccharomyces cerevisiae* meiosis. Treilles-Sticken, E., Bonfils, S., Sollier, J., Géli, V., Scherthan, H. and de La Roche Saint-André, C.
- 4995 Interactions between Coilin and PIASy partially link Cajal bodies to PML bodies. Sun, J., Xu, H., Subramony, S. H. and Hebert, M. D.
- 5005 CREB-binding protein regulates apoptosis and growth of HMECs grown in reconstituted ECM via laminin-5. Dietze, E. C., Bowie, M. L., Mrózek, K., Caldwell, L. E., Neal, C., Marjoram, R. J., Troch, M. M., Bean, G. R., Yokoyama, K. K., Ibarra, C. A. and Seewaldt, V. L.
- 5023 In vivo role of the phosphate groove of PDK1 defined by knockin mutation. Collins, B. J., Deak, M., Murray-Tait, V., Storey, K. G. and Alessi, D. R.
- 5035 Nuclear levels and patterns of histone H3 modification and HP1 proteins after inhibition of histone deacetylases. Bártová, E., Pacherník, J., Harničarová, A., Kovářík, A., Kováříková, M., Hofmanová, J., Skalníková, M., Kozubek, M. and Kozubek, S.
- 5047 Loss of the modifiers of variegation Su(var)3-7 or HP1 impacts male X polytene chromosome morphology and dosage compensation. Spierer, A., Seum, C., Delattre, M. and Spierer, P.
- 5059 NOSTRIN functions as a homotrimeric adaptor protein facilitating internalization of eNOS. Icking, A., Matt, S., Opitz, N., Wiesenthal, A., Müller-Esterl, W. and Schilling, K.

Editorial

- 4915 Consortia – the motion picture. Watt, F. M. and Sever, R.

Cell Science at a Glance

- 4917 Cell migration at a glance. Vicente-Manzanares, M., Webb, D. J. and Horwitz, A. R.

Cell Migration Updates

- 4921 Talin phosphorylation sites mapped by mass spectrometry. Ratnikov, B., Ptak, C., Han, J., Shabanowitz, J., Hunt, D. F. and Ginsberg, M. H.

- 4925 Paxillin phosphorylation sites mapped by mass spectrometry. Webb, D. J., Schroeder, M. J., Brame, C. J., Whitmore, L., Shabanowitz, J., Hunt, D. F. and Horwitz, A. R.

- 4931 FAK phosphorylation sites mapped by mass spectrometry. Grigera, P. R., Jeffery, E. D., Martin, K. H., Shabanowitz, J., Hunt, D. F. and Parsons, J. T.

Commentaries

- 4937 CZH proteins: a new family of Rho-GEFs. Meller, N., Merlot, S. and Guda, C.

- 4947 Scale-free networks in cell biology. Albert, R.

- 5071 Differential contributions of connexin37 and connexin43 to oogenesis revealed in chimeric reaggregated mouse ovaries. Gittens, J. E. I. and Kidder, G. M.

- 5079 The JIL-1 kinase interacts with laminin Dm₀ and regulates nuclear lamina morphology of *Drosophila* nurse cells. Bao, X., Zhang, W., Krencik, R., Deng, H., Wang, Y., Girton, J., Johansen, J. and Johansen, K. M.

- 5089 Interaction of fibroblast growth factor and C-natriuretic peptide signaling in regulation of chondrocyte proliferation and extracellular matrix homeostasis. Krejci, P., Masri, B., Fontaine, V., Mekikian, P. B., Weis, M. A., Prats, H. and Wilcox, W. R.

- 5101 Phosphorylation of Nlp by Plk1 negatively regulates its dynein-dynactin-dependent targeting to the centrosome. Casenghi, M., Barr, F. A. and Nigg, E. A.

- 5109 Paracellin-1 and the modulation of ion selectivity of tight junctions. Hou, J., Paul, D. L. and Goodenough, D. A.

- 5119 Chemotaxis towards hyaluronan is dependent on CD44 expression and modulated by cell type variation in CD44-hyaluronan binding. Tzircotis, G., Thorne, R. F. and Isacke, C. M.

- 5129 Dimerization of the cytokine receptors gp130 and LIFR analysed in single cells. Giese, B., Roderburg, C., Sommérauer, M., Wortmann, S. B., Metz, S., Heinrich, P. C. and Müller-Newen, G.

- 5141 Assigning functions to distinct regions of the N-terminus of the prion protein that are involved in its copper-stimulated, clathrin-dependent endocytosis. Taylor, D. R., Watt, N. T., Perera, W. S. S. and Hooper, N. M.

Author Correction

- 5155 PCTAIRE protein kinases interact directly with the COPII complex and modulate secretory cargo transport. Palmer, K. J., Konkel, J. E. and Stephens, D. J.