



Cover: A *Drosophila* egg chamber expressing PH(PLC δ)-GFP, which reveals phosphatidylinositol (4,5)-bisphosphate (green), and RFP-Skittles (blue), a phosphatidylinositol 4-phosphate 5-kinase. The egg chamber is further immunostained with phalloidin (red), which reveals F-actin. When Skittles is overexpressed, large PH(PLC δ)-GFP/RFP-Skittles-positive structures in the oocyte cytoplasm are present and are associated with F-actin. See article by J. Compagnon et al. (pp. 25-35).

- Cell Science at a Glance**
- 1 **MHC class II transport at a glance.** Berger, A. C. and Roche, P. A.
- Commentaries**
- 5 **SNX9 – a prelude to vesicle release.** Lundmark, R. and Carlsson, S. R.
- 13 **microRNAs and muscle disorders.** Chen, J.-F., Callis, T. E. and Wang, D.-Z.
- Cell Adhesion Update**
- 21 **Protein p0071 – an armadillo plaque protein that characterizes a specific subtype of adherens junctions.** Hofmann, I., Schlechter, T., Kuhn, C., Hergt, M. and Franke, W. W.
- Research Articles**
- 25 **Interplay between Rab5 and PtdIns(4,5)P₂ controls early endocytosis in the *Drosophila* germline.** Compagnon, J., Gervais, L., San Roman, M., Chamot-Bœuf, S. and Guichet, A.
- 36 **BDNF splice variants from the second promoter cluster support cell survival of differentiated neuroblastoma upon cytotoxic stress.** Baj, G. and Tongiorgi, E.
- 44 **Localization of Inv in a distinctive intraciliary compartment requires the C-terminal ninein-homolog-containing region.** Shiba, D., Yamaoka, Y., Hagiwara, H., Takamatsu, T., Hamada, H. and Yokoyama, T.
- 55 **A new mechanism for the regulation of Gab1 recruitment to the plasma membrane.** Eulendorf, R. and Schaper, F.
- 65 **CDK phosphorylation of the discs large tumour suppressor controls its localisation and stability.** Narayan, N., Massimi, P. and Banks, L.
- 75 **Imaging of evoked dense-core-vesicle exocytosis in hippocampal neurons reveals long latencies and kiss-and-run fusion events.** Xia, X., Lessmann, V. and Martin, T. F. J.
- 83 **Spatial organization of nucleotide excision repair proteins after UV-induced DNA damage in the human cell nucleus.** Solimando, L., Luijsterburg, M. S., Vecchio, L., Vermeulen, W., van Driel, R. and Fakan, S.
- 92 **DLC1 interacts with 14-3-3 proteins to inhibit RhoGAP activity and block nucleocytoplasmic shuttling.** Scholz, R.-P., Regner, J., Theil, A., Erlmann, P., Holeiter, G., Jähne, R., Schmid, S., Hausser, A. and Olayioye, M. A.
- 103 **Moesin is required for HIV-1-induced CD4-CXCR4 interaction, F-actin redistribution, membrane fusion and viral infection in lymphocytes.** Barrero-Villar, M., Cabrero, J. R., Gordón-Alonso, M., Barroso-González, J., Álvarez-Losada, S., Muñoz-Fernández, M. A., Sánchez-Madrid, F. and Valenzuela-Fernández, A.
- 114 **Rolling blackout is required for bulk endocytosis in non-neuronal cells and neuronal synapses.** Vijayakrishnan, N., Woodruff, E. A., III and Broadie, K.
- 126 **MT1-MMP promotes vascular smooth muscle dedifferentiation through LRP1 processing.** Lehti, K., Rose, N. F., Valavaara, S., Weiss, S. J. and Keski-Oja, J.
- 136 **Activation of P2X7 receptors causes isoform-specific translocation of protein kinase C in osteoclasts.** Armstrong, S., Pereverzev, A., Dixon, S. J. and Sims, S. M.
- 145 **Mild mitochondrial uncoupling induces 3T3-L1 adipocyte de-differentiation by a PPAR γ -independent mechanism, whereas TNF α -induced de-differentiation is PPAR γ dependent.** Tejerina, S., De Pauw, A., Vankoningsloo, S., Houbion, A., Renard, P., De Longueville, F., Raes, M. and Arnould, T.
- Erratum**
- 156 **BDNF splice variants from the second promoter cluster support cell survival of differentiated neuroblastoma upon cytotoxic stress.** Baj, G. and Tongiorgi, E.