


Cover: Early stages of *Drosophila* oogenesis. Shown are three round follicles of increasing size that originate from the germlonium (lower left corner). The follicles are enclosed by an epithelial monolayer, whose polarity is revealed by staining for aPKC (blue, apical membrane) and α -Spectrin (green, lateral membrane). *Drosophila* E-Cadherin (red) is detectable at the adherens junctions and at the lateral membrane. See article by N. Berns et al. (pp. 2736–2748).

COMMENTARY

- 2603**  Role of cell–cell adhesion complexes in embryonic stem cell biology
Pieters, T. and van Roy, F.

SHORT REPORTS

- 2615** Mechanism of action of the flippase Drs2p in modulating GTP hydrolysis of Arl1p
Hsu, J.-W., Chen, Z.-J., Liu, Y.-W. and Lee, F.-J. S.
- 2621** The malignancy of metastatic ovarian cancer cells is increased on soft matrices through a mechanosensitive Rho–ROCK pathway
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- 2627** Cadherin-11 regulates both mesenchymal stem cell differentiation into smooth muscle cells and the development of contractile function *in vivo*
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- 2639** *S. pombe* TORC1 activates the ubiquitin-proteasomal degradation of the meiotic regulator Mei2 in cooperation with Pat1 kinase
Otsubo, Y., Yamashita, A., Ohno, H. and Yamamoto, M.
- 2647** A crucial role for DOK1 in PDGF-BB-stimulated glioma cell invasion through p130Cas and Rap1 signalling
Barrett, A., Evans, I. M., Frolov, A., Britton, G., Pellet-Many, C., Yamaji, M., Mehta, V., Bandopadhyay, R., Li, N., Brandner, S., Zachary, I. C. and Frankel, P.
- 2659** Mitochondrial fission is required for cardiomyocyte hypertrophy mediated by a Ca²⁺-calcineurin signaling pathway
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- 2672** GAS2-like proteins mediate communication between microtubules and actin through interactions with end-binding proteins
Stroud, M. J., Nazgiewicz, A., McKenzie, E. A., Wang, Y., Kammerer, R. A. and Ballestrem, C.
- 2683** Interphase phosphorylation of lamin A
Kochin, V., Shimi, T., Torvaldson, E., Adam, S. A., Goldman, A., Pack, C.-G., Melo-Cardenas, J., Imanishi, S. Y., Goldman, R. D. and Eriksson, J. E.
- 2697** RILP regulates vacuolar ATPase through interaction with the V1G1 subunit
De Luca, M., Cogli, L., Progida, C., Nisi, V., Pascolutti, R., Sigismund, S., Di Fiore, P. P. and Bucci, C.
- 2709** Arl13b and the non-muscle myosin heavy chain IIA are required for circular dorsal ruffle formation and cell migration
Casalou, C., Seixas, C., Portelinha, A., Pintado, P., Barros, M., Ramalho, J. S., Lopes, S. S. and Barral, D. C.

- 2723** Expression of endoglin isoforms in the myeloid lineage and their role during aging and macrophage polarization
Aristorena, M., Blanco, F. J., de Las Casas-Engel, M., Ojeda-Fernandez, L., Gallardo-Vara, E., Corbi, A., Botella, L. M. and Bernabeu, C.
- 2736** A genome-scale *in vivo* RNAi analysis of epithelial development in *Drosophila* identifies new proliferation domains outside of the stem cell niche
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- 2749** The dynamics of MAPK inactivation at fertilization in mouse eggs
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- 2761** Protein tyrosine phosphatase PTPN9 regulates erythroid cell development through STAT3 dephosphorylation in zebrafish
Bu, Y., Su, F., Wang, X., Gao, H., Lei, L., Chang, N., Wu, Q., Hu, K., Zhu, X., Chang, Z., Meng, K. and Xiong, J.-W.
- 2771** The tumor suppressor APC differentially regulates multiple β -catenins through the function of axin and CK1 α during *C. elegans* asymmetric stem cell divisions
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- 2782** Bcl-2 binds to and inhibits ryanodine receptors
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