In C. elegans adult hermaphrodite gonads, only germ cells that have lost PGL-1 (red), a constitutive protein component of germ granules, are selectively engulfed by gonadal sheath cells (green) under both physiological and DNA-damaged conditions. See article by H. Min et al. (pp. 341–353).

CELL SCIENTISTS TO WATCH

243 Cell scientist to watch – Lei Stanley Qi

COMMENTARIES

245 Third harmonic generation microscopy of cells and tissue organization
Weigel, B., Bakker, G.-J. and Friedl, P.

257 Computational ‘microscopy’ of cellular membranes
Ingólfsson, H. I., Arnarez, C., Periöle, X. and Marrink, S. J.

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269 Wnt/b-catenin and LIF–Stat3 signaling pathways converge on Sp5 to promote mouse embryonic stem cell self-renewal
Ye, S., Zhang, D., Cheng, F., Wilson, D., Mackay, J., He, K., Ban, Q., Lv, F., Huang, S., Liu, D. and Ying, Q.-L.

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277 PTP-PEST controls EphA3 activation and ephrin-induced cytoskeletal remodelling

290 Role of epithelial Na⁺ channels in endothelial function

298 The formins FHOD1 and INF2 regulate inter- and intra-structural contractility of podosomes

314 Reactive oxygen species exert opposite effects on Tyr23 phosphorylation of the nuclear and cortical pools of annexin A2

329 Mon1–Ccz1 activates Rab7 only on late endosomes and dissociates from the lysosome in mammalian cells

341 Loss of PGL-1 and PGL-3, members of a family of constitutive germ-granule components, promotes germline apoptosis in C. elegans
Min, H., Shim, Y.-H. and Kawasaki, I.

354 FGF control of E-cadherin targeting in the Drosophila midgut impacts on primordial germ cell motility
Parés, G. and Ricardo, S.

367 Srv2/CAP is required for polarized actin cable assembly and patch internalization during clathrin-mediated endocytosis

380 PAK6 targets to cell–cell adhesions through its N-terminus in a Cdc42-dependent manner to drive epithelial colony escape
Morse, E. M., Sun, X., Olberding, J. R., Ha, B. H., Boggon, T. J. and Calderwood, D. A.

394 CULD is required for rhodopsin and TRPL channel endocytic trafficking and survival of photoreceptor cells
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406 Haemoglobin degradation underpins the sensitivity of early ring stage Plasmodium falciparum to artemisinins

417 Orc5 induces large-scale chromatin decondensation in a GCN5-dependent manner
Giri, S., Chakraborty, A., Sathyam, K. M., Prasanth, K. V. and Prasanth, S. G.

430 Rop, the Sec1/Munc18 homolog in Drosophila, is required for furrow ingression and stable cell shape during cytokinesis
DeBruhl, H., Albertson, R., Swider, Z. and Sullivan, W.

444 Fast and precise targeting of single tumor cells in vivo by multimodal correlative microscopy
Karreman, M. A., Mercier, L., Schieber, N. L., Solecki, G., Allo, G., Winkler, F., Ruthensteiner, B., Goetz, J. G. and Schwab, Y.

CORRECTION

457 Volume regulation and shape bifurcation in the cell nucleus