



**Cover:** A mammary epithelial organoid derived from one primary mouse basal epithelial cell embedded in reconstituted basement membrane. The basal markers alpha smooth muscle actin (red) and Slug (green), the luminal marker keratin 8 (yellow), and nuclei (blue; DAPI) are labelled. See Research article by Peuhu et al. on p. 4103.

## REVIEWS

- 4047** Fibroblast growth factors: key players in regeneration and tissue repair  
**Maddaluno, L., Urwyler, C. and Werner, S.**
- 4061** The evolution of cortical development: the synapsid-diapsid divergence  
**Goffinet, A. M.**
- 4078** Developing a sense of touch  
**Jenkins, B. A. and Lumpkin, E. A.**

## STEM CELLS AND REGENERATION

- 4091** Interorgan regulation of *Drosophila* intestinal stem cell proliferation by a hybrid organ boundary zone  
**Sawyer, J. K., Cohen, E. and Fox, D. T.**
- 4103** Epithelial vimentin plays a functional role in mammary gland development  
**Peuhu, E., Virtakoivu, R., Mai, A., Wärrri, A. and Ivaska, J.**

## RESEARCH ARTICLES

- 4114** The African Zika virus MR-766 is more virulent and causes more severe brain damage than current Asian lineage and dengue virus  
**Shao, Q., Herrlinger, S., Zhu, Y.-N., Yang, M., Goodfellow, F., Stice, S. L., Qi, X.-P., Brindley, M. A. and Chen, J.-F.**
- 4125** Synaptic input as a directional cue for migrating interneuron precursors  
**Wefers, A. K., Haberlandt, C., Tekin, N. B., Fedorov, D. A., Timmermann, A., van der Want, J. J. L., Chaudhry, F. A., Steinhäuser, C., Schilling, K. and Jabs, R.**

- 4137** Regulation of mitosis-meiosis transition by the ubiquitin ligase  $\beta$ -TrCP in male germ cells  
**Nakagawa, T., Zhang, T., Kushi, R., Nakano, S., Endo, T., Nakagawa, M., Yanagihara, N., Zarkower, D. and Nakayama, K.**

- 4148** Talin regulates integrin  $\beta$ 1-dependent and -independent cell functions in ureteric bud development  
**Mathew, S., Palamuttam, R. J., Mernaugh, G., Ramalingam, H., Lu, Z., Zhang, M.-Z., Ishibe, S., Critchley, D. R., Fässler, R., Pozzi, A., Sanders, C. R., Carroll, T. J. and Zent, R.**

- 4159** Graf regulates hematopoiesis through GEEC endocytosis of EGFR  
**Kim, S., Nahm, M., Kim, N., Kwon, Y., Kim, J., Choi, S., Choi, E. Y., Shim, J., Lee, C. and Lee, S.**

- 4173** Myc cooperates with  $\beta$ -catenin to drive gene expression in nephron progenitor cells  
**Pan, X., Karner, C. M. and Carroll, T. J.**

- 4183** PFKFB4 control of AKT signaling is essential for premigratory and migratory neural crest formation  
**Figueiredo, A. L., Maczkowiak, F., Borday, C., Pla, P., Sittewelle, M., Pegoraro, C. and Monsoro-Burq, A. H.**

## CORRECTION

- 4195** Correction: The many faces of hematopoietic stem cell heterogeneity. Development doi: 10.1242/dev.114231  
**Crisan, M. and Dzierzak, E.**