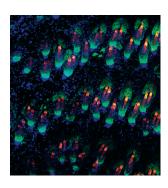
Development



Cover: Whole-mount view of adult mouse back skin. Epidermal cells are labelled with antibody against keratin 14 (green), hair shafts with dsRed (red) and nuclei with DAPI (blue). Dermal papillae are visualised as clusters of blue nuclei at the base of each hair follicle. See Research article by Driskell et al. on p. 2815.

PRIMER

2675 Auxin transport routes in plant development Petrášek, J. and Friml, J.

RESEARCH REPORT

2689 The Tbx20 homologs midline and H15 specify ventral fate in the Drosophila melanogaster leg
Svendsen, P. C., Formaz-Preston, A., Leal, S. M. and Brook, W. J.

RESEARCH ARTICLES

2695 Xenopus oocytes reactivate muscle gene transcription in transplanted somatic nuclei independently of myogenic factors
Biddle, A., Simeoni, I. and Gurdon, J. B.

2705 Lats kinase is involved in the intestinal apical membrane integrity in the nematode Caenorhabditis elegans
Kang, J., Shin, D., Yu, J.-R. and Lee, J.

2717 β1 integrins are required for normal CNS myelination and promote AKT-dependent myelin outgrowth
 Barros, C. S., Nguyen, T., Spencer, K. S. R., Nishiyama, A., Colognato, H. and Müller, U.

2725 UNC-83 is a nuclear-specific cargo adaptor for kinesin-1-mediated nuclear migration
Meyerzon, M., Fridolfsson, H. N., Ly, N., McNally, F. J. and Starr, D. A.

2735 The NK-2 class homeodomain factor CEH-51 and the T-box factor TBX-35 have overlapping function in *C. elegans* mesoderm development Broitman-Maduro, G., Owraghi, M., Hung, W. W. K., Kuntz, S., Sternberg, P. W. and Maduro, M. F.

2747 Regulation of bone formation and remodeling by G-protein-coupled receptor 48 Luo, J., Zhou, W., Zhou, X., Li, D., Weng, J., Yi, Z., Cho, S. G., Li, C., Yi, T., Wu, X., Li, X.-Y., de Crombrugghe, B., Höök, M. and Liu, M.

2757 The Integrator subunits function in hematopoiesis by modulating Smad/BMP signaling
Tao, S., Cai, Y. and Sampath, K.

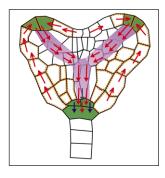
2767 The apicobasal polarity kinase aPKC functions as a nuclear determinant and regulates cell proliferation and fate during *Xenopus* primary neurogenesis Sabherwal, N., Tsutsui, A., Hodge, S., Wei, J., Chalmers, A. D. and Papalopulu, N.

 Distinct functional specificities are associated with protein isoforms encoded by the Drosophila dorsal-ventral patterning gene pipe
 Zhang, Z., Zhu, X., Stevens, L. M. and Stein, D.

2791 β1 integrins are required for the invasion of the caecum and proximal hindgut by enteric neural crest cells
Breau, M. A., Dahmani, A., Broders-Bondon, F., Thiery, J.-P. and Dufour, S.

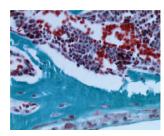
2803 Rab5-mediated endocytosis of activin is not required for gene activation or long-range signalling in *Xenopus*Hagemann, A. I., Xu, X., Nentwich, O., Hyvonen, M. and Smith, J. C.

2815 Sox2-positive dermal papilla cells specify hair follicle type in mammalian epidermis Driskell, R. R., Giangreco, A., Jensen, K. B., Mulder, K. W. and Watt, F. M.



Petrášek and Friml review how the coordinated activity of several auxin transport systems regulates the directional flow of auxin, and discuss how this activity contributes to diverse developmental processes, including embryogenesis and organogenesis. See Primer on p. 2675.

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An osteoid synthesis defect is revealed by Goldner staining in a bone from a 1-month-old mouse that carries a null mutation in G-protein-coupled receptor 48 (Gpr48), from a study that shows that Gpr48 regulates bone formation and remodelling. See Research article by Luo et al. on p. 2747.

2825 Conditional inactivation of *Has2* reveals a crucial role for hyaluronan in skeletal growth, patterning, chondrocyte maturation and joint formation in the developing limb

Matsumoto, K., Li, Y., Jakuba, C., Sugiyama, Y., Sayo, T., Okuno, M., Dealy, C. N., Toole, B. P., Takeda, J., Yamaguchi, Y. and Kosher, R. A.

2837 Nkcc1 (Slc12a2) is required for the regulation of endolymph volume in the otic vesicle and swim bladder volume in the zebrafish larva Abbas, L. and Whitfield, T. T.

DEVELOPMENT AND DISEASE

2849 Wash functions downstream of Rho and links linear and branched actin nucleation factors

Liu, R., Abreu-Blanco, M. T., Barry, K. C., Linardopoulou, E. V., Osborn, G. E. and Parkhurst, S. M.