



**Cover:** Whole-mount confocal image of a mouse forelimb at E14.5. At this stage, tendon and muscle patterning is largely complete. Tendons and muscles are genetically labelled by *ScxGFP* (green) and *Pax7<sup>Cre</sup>/Rosa-TdTomato* (red), respectively. The distinct programmes that govern the early development of autopod and zeugopod tendons are integrated to achieve proper musculoskeletal organisation. **See Research article by Huang et al. on p. 2431.**

### SPOTLIGHT

- 2389 An interview with Brigid Hogan  
Vicente, C.

### DEVELOPMENT AT A GLANCE

- 2392 The retromer complex in development and disease  
Wang, S. and Bellen, H. J.

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- 2397 LIN28: roles and regulation in development and beyond  
Tzialikas, J. and Romer-Seibert, J.

### STEM CELLS AND REGENERATION

- 2405 HIF modulation of Wnt signaling regulates skeletal myogenesis *in vivo*  
Majmundar, A. J., Lee, D. S. M., Skuli, N., Mesquita, R. C., Kim, M. N., Yodh, A. G., Nguyen-McCarty, M., Li, B. and Simon, M. C.
- 2413 JNK signalling is necessary for a Wnt- and stem cell-dependent regeneration programme  
Tejada-Romero, B., Carter, J.-M., Mihaylova, Y., Neumann, B. and Aboobaker, A. A.

### RESEARCH REPORT

- 2425 A trans-homologue interaction between reciprocally imprinted *miR-127* and *Rtl1* regulates placenta development  
Ito, M., Sferruzzi-Perri, A. N., Edwards, C. A., Adalsteinsson, B. T., Allen, S. E., Loo, T.-H., Kitazawa, M., Kaneko-Ishino, T., Ishino, F., Stewart, C. L. and Ferguson-Smith, A. C.

### RESEARCH ARTICLES

- 2431 Musculoskeletal integration at the wrist underlies the modular development of limb tendons  
Huang, A. H., Riordan, T. J., Pryce, B., Weibel, J. L., Watson, S. S., Long, F., Lefebvre, V., Harfe, B. D., Stadler, H. S., Akiyama, H., Tufa, S. F., Keene, D. R. and Schweitzer, R.
- 2442 Distinct developmental genetic mechanisms underlie convergently evolved tooth gain in sticklebacks  
Ellis, N. A., Glazer, A. M., Donde, N. N., Cleves, P. A., Agoglia, R. M. and Miller, C. T.

- 2452 The intracellular domains of Notch1 and Notch2 are functionally equivalent during development and carcinogenesis  
Liu, Z., Brunskill, E., Varnum-Finney, B., Zhang, C., Zhang, A., Jay, P. Y., Bernstein, I., Morimoto, M. and Kopan, R.
- 2464 *C. elegans* SoxB genes are dispensable for embryonic neurogenesis but required for terminal differentiation of specific neuron types  
Vidal, B., Santella, A., Serrano-Saiz, E., Bao, Z., Chuang, C.-F. and Hobert, O.
- 2478 The *Drosophila* planar polarity gene *multiple wing hairs* directly regulates the actin cytoskeleton  
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- 2487 MicroRNAs are essential for differentiation of the retinal pigmented epithelium and maturation of adjacent photoreceptors  
Ohana, R., Weiman-Kelman, B., Raviv, S., Tamm, E. R., Pasmanik-Chor, M., Rinon, A., Netanel, D., Shamir, R., Solomon, A. S. and Ashery-Padan, R.
- 2499 Wnt signaling and *tbx16* form a bistable switch to commit bipotential progenitors to mesoderm  
Bouldin, C. M., Manning, A. J., Peng, Y.-H., Farr, G. H., III, Hung, K. L., Dong, A. and Kimelman, D.
- 2508 A dynamic intracellular distribution of Vangl2 accompanies cell polarization during zebrafish gastrulation  
Roszko, I., Sepich, D. S., Jessen, J. R., Chandrasekhar, A. and Solnica-Krezel, L.
- 2521 A common *Shox2-Nkx2-5* antagonistic mechanism primes the pacemaker cell fate in the pulmonary vein myocardium and sinoatrial node  
Ye, W., Wang, J., Song, Y., Yu, D., Sun, C., Liu, C., Chen, F., Zhang, Y., Wang, F., Harvey, R. P., Schrader, L., Martin, J. F. and Chen, Y.
- 2533 Ectopic *Atoh1* expression drives Merkel cell production in embryonic, postnatal and adult mouse epidermis  
Ostrowski, S. M., Wright, M. C., Bolock, A. M., Geng, X. and Maricich, S. M.
- ### CORRECTION
- 2545 The atlas of mouse development eHistology resource  
Graham, E., Moss, J., Burton, N., Roochun, Y., Armit, C., Richardson, L. and Baldock, R.