



Cover: Central longitudinal section of an *Arabidopsis* seed, taken from a three-dimensional reconstruction created using the modified pseudo-Schiff propidium iodide imaging technique. The innermost epidermal integument cell layer is highlighted in yellow whereas the sub-epidermal cell layers are marked in red and green. **See Research report by Coen et al. on p. 1490.**

CORRESPONDENCE

- 1363** Methodological issues limit interpretation of negative effects of satellite cell depletion on adult muscle hypertrophy
McCarthy, J. J., Dupont-Versteegden, E. E., Fry, C. S., Murach, K. A. and Peterson, C. A.
- 1365** An apparent lack of effect of satellite cell depletion on hypertrophy could be due to methodological limitations. Response to 'Methodological issues limit interpretation of negative effects of satellite cell depletion on adult muscle hypertrophy'
Egner, I. M., Bruusgaard, J. C. and Gundersen, K.

REVIEWS

- 1368** Stem cell therapies for retinal diseases: recapitulating development to replace degenerated cells
Zhao, C., Wang, Q. and Temple, S.
- 1382** Prostate organogenesis: tissue induction, hormonal regulation and cell type specification
Toivanen, R. and Shen, M. M.

HUMAN DEVELOPMENT

- 1399** The human chorion contains definitive hematopoietic stem cells from the fifteenth week of gestation
Muench, M. O., Kapidzic, M., Gormley, M., Gutierrez, A. G., Ponder, K. L., Fomin, M. E., Beyer, A. I., Stolp, H., Qi, Z., Fisher, S. J. and Bárcena, A.

STEM CELLS AND REGENERATION

- 1412** FGF and canonical Wnt signaling cooperate to induce paraxial mesoderm from tailbud neuromesodermal progenitors through regulation of a two-step epithelial to mesenchymal transition
Goto, H., Kimmey, S. C., Row, R. H., Matus, D. Q. and Martin, B. L.
- 1425** Notch signalling restricts inflammation and *serpine1* expression in the dynamic endocardium of the regenerating zebrafish heart
Münch, J., Grivas, D., González-Rajal, Á., Torregrosa-Carrión, R. and de la Pompa, J. L.
- 1441** The role of variant histone H2AV in *Drosophila melanogaster* larval hematopoiesis
Grigorian, M., DeBruhl, H. and Lipsick, J. S.
- 1450** The chromatin modifier Satb1 regulates cell fate through Fgf signalling in the early mouse embryo
Goolam, M. and Zernicka-Goetz, M.

- 1462** Distinct roles of neuroepithelial-like and radial glia-like progenitor cells in cerebellar regeneration
Kaslin, J., Kroehne, V., Ganz, J., Hans, S. and Brand, M.

RESEARCH REPORTS

- 1472** MpWIP regulates air pore complex development in the liverwort *Marchantia polymorpha*
Jones, V. A. S. and Dolan, L.
- 1477** Stomach curvature is generated by left-right asymmetric gut morphogenesis
Davis, A., Amin, N. M., Johnson, C., Bagley, K., Ghashghaei, H. T. and Nascone-Yoder, N.
- 1484** IP₃R-mediated Ca²⁺ release regulates protein metabolism in *Drosophila* neuroendocrine cells: implications for development under nutrient stress
Megha and Hasan, G.
- 1490** Developmental patterning of the sub-epidermal integument cell layer in *Arabidopsis* seeds
Coen, O., Fiume, E., Xu, W., De Vos, D., Lu, J., Pechoux, C., Lepiniec, L. and Magnani, E.

RESEARCH ARTICLES

- 1498** Estrogen modulates mesenchyme-epidermis interactions in the adult nipple
Wu, H.-J., Oh, J. W., Spandau, D. F., Tholpady, S., Diaz, J., III, Schroeder, L. J., Offutt, C. D., Glick, A. B., Plikus, M. V., Koyama, S. and Foley, J.
- 1510** Prevention of medulla neuron dedifferentiation by Nerfin-1 requires inhibition of Notch activity
Xu, J., Hao, X., Yin, M.-X., Lu, Y., Jin, Y., Xu, J., Ge, L., Wu, W., Ho, M., Yang, Y., Zhao, Y. and Zhang, L.
- 1518** Folate receptor 1 is necessary for neural plate cell apical constriction during *Xenopus* neural tube formation
Balashova, O. A., Visina, O. and Borodinsky, L. N.
- 1531** A systems-level approach reveals new gene regulatory modules in the developing ear
Chen, J., Tambalo, M., Barembaum, M., Ranganathan, R., Simões-Costa, M., Bronner, M. E. and Streit, A.
- 1544** IFT56 regulates vertebrate developmental patterning by maintaining IFTB complex integrity and ciliary microtubule architecture
Xin, D., Christopher, K. J., Zeng, L., Kong, Y. and Weatherbee, S. D.

- 1554** Distinct and redundant functions of Esama and VE-cadherin during vascular morphogenesis
Sauteur, L., Affolter, M. and Belting, H.-G.
- 1566** Helios expression coordinates the development of a subset of striatopallidal medium spiny neurons
Martín-Ibáñez, R., Pardo, M., Giral, A., Miguez, A., Guardia, I., Marion-Poll, L., Herranz, C., Esgleas, M., Garcia-Díaz Barriga, G., Edel, M. J., Vicario-Abejón, C., Alberch, J., Girault, J.-A., Chan, S., Kastner, P. and Canals, J. M.

CORRECTIONS

- 1578** Correction: Neural specificity of the RNA-binding protein Elav is achieved by post-transcriptional repression in non-neural tissues
Sanfilippo, P., Smibert, P., Duan, H. and Lai, E. C.
- 1579** Correction: An anterior signaling center patterns and sizes the anterior neuroectoderm of the sea urchin embryo
Range, R. C. and Wei, Z.