



Cover: Immunofluorescent confocal image of a 1-month-old sea urchin larva (*S. purpuratus*). A conserved germ-line marker, Vasa (yellow), is expressed in the entire adult precursor cells during adult rudiment formation (DNA, blue). Image was revised by Julian Wong (Brown University, Providence, RI, USA). See **Research article** by Yajima and Wessel on p. 1960.

SPOTLIGHT

- 1909** The atlas of mouse development eHistology resource
Graham, E., Moss, J., Burton, N., Armit, C., Richardson, L. and Baldock, R.

MEETING REVIEW

- 1912** At new heights – endodermal lineages in development and disease
Ober, E. A. and Grapin-Botton, A.

PRIMER

- 1918** How to make a midbrain dopaminergic neuron
Arenas, E., Denham, M. and Villaescusa, J. C.

REVIEW

- 1937** The origin of the mammalian kidney: implications for recreating the kidney *in vitro*
Takasato, M. and Little, M. H.

STEM CELLS AND REGENERATION

- 1948** Generation of sensory hair cells by genetic programming with a combination of transcription factors
Costa, A., Sanchez-Guardado, L., Juniat, S., Gale, J. E., Daudet, N. and Henrique, D.

- 1960** Essential elements for translation: the germline factor Vasa functions broadly in somatic cells
Yajima, M. and Wessel, G. M.

RESEARCH REPORTS

- 1971** Diversity of epithelial morphogenesis during eggshell formation in drosophilids
Osterfield, M., Schüpbach, T., Wieschaus, E. and Shvartsman, S. Y.
- 1978** DEFECTIVE KERNEL 1 promotes and maintains plant epidermal differentiation
Galletti, R., Johnson, K. L., Scofield, S., San-Bento, R., Watt, A. M., Murray, J. A. H. and Ingram, G. C.
- 1984** Vegfa regulates perichondrial vascularity and osteoblast differentiation in bone development
Duan, X., Murata, Y., Liu, Y., Nicolae, C., Olsen, B. R. and Berendsen, A. D.

RESEARCH ARTICLES

- 1992** Phyllotaxis involves auxin drainage through leaf primordia
Deb, Y., Marti, D., Frenz, M., Kuhlemeier, C. and Reinhardt, D.

- 2002** The Hippo pathway effector Yki downregulates Wg signaling to promote retinal differentiation in the *Drosophila* eye
Wittkorn, E., Sarkar, A., Garcia, K., Kango-Singh, M. and Singh, A.

- 2014** Neural crest migration is driven by a few trailblazer cells with a unique molecular signature narrowly confined to the invasive front
McLennan, R., Schumacher, L. J., Morrison, J. A., Teddy, J. M., Ridenour, D. A., Box, A. C., Semerad, C. L., Li, H., McDowell, W., Kay, D., Maini, P. K., Baker, R. E. and Kulesa, P. M.

- 2026** The cytoskeleton-associated protein SCHIP1 is involved in axon guidance, and is required for piriform cortex and anterior commissure development
Klingler, E., Martin, P.-M., Garcia, M., Moreau-Fauvarque, C., Falk, J., Chareyre, F., Giovannini, M., Chédotal, A., Girault, J.-A. and Goutebroze, L.

- 2037** *Cas21* is required for cardiomyocyte G1-to-S phase progression during mammalian cardiac development
Dorr, K. M., Amin, N. M., Kuchenbrod, L. M., Labiner, H., Charpentier, M. S., Pevny, L. H., Wessels, A. and Conlon, F. L.

- 2048** Compensatory branching morphogenesis of stalk cells in the *Drosophila* trachea
Francis, D. and Ghabrial, A. S.

- 2058** Inhibition of Daughterless by Extramacrochaetae mediates Notch-induced cell proliferation
Spratford, C. M. and Kumar, J. P.

- 2069** Context-specific function of the LIM homeobox 1 transcription factor in head formation of the mouse embryo
Fossat, N., Ip, C. K., Jones, V. J., Studdert, J. B., Khoo, P.-L., Lewis, S. L., Power, M., Tourle, K., Loebel, D. A. F., Kwan, K. M., Behringer, R. R. and Tam, P. P. L.

CORRECTIONS

- 2080** Canonical Wnt signalling regulates epithelial patterning by modulating levels of laminins in zebrafish appendages
Nagendran, M., Arora, P., Gori, P., Mulay, A., Ray, S., Jacob, T. and Sonawane, M.
- 2081** A small molecule screen identifies a novel compound that induces a homeotic transformation in *Hydra*
Glauber, K. M., Dana, C. E., Park, S. S., Colby, D. A., Noro, Y., Fujisawa, T., Chamberlin, A. R. and Steele, R. E.