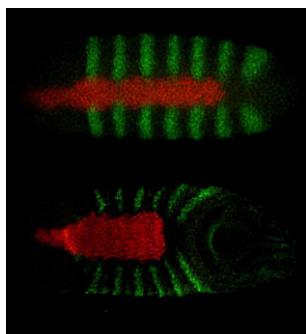
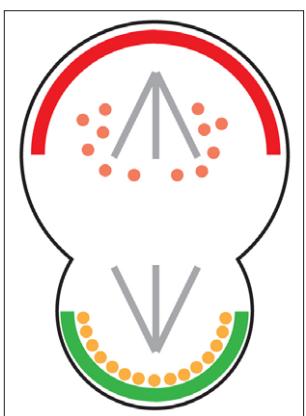


# Development



**Cover:** Expression of eve (embryo, green) relative to zen (serosa, red) shortly before (top) and after (bottom) gastrulation in the scuttle fly *Megaselia*. The forming gap between these domains indicates amnion specification. Embryos are shown in dorsal view; anterior is left.  
See Research article by Rafiqi et al. on p. 3373.



Intracellular targeting of mRNAs, which has long been recognised as a means to produce proteins locally, has recently emerged as a mechanism used to polarise various cell types. Here, Florence Besse and colleagues review the regulation and functions of RNA localisation during animal development. See Review on p. 3263.

## DEVELOPMENT AT A GLANCE

- 3257** Left-right patterning: conserved and divergent mechanisms  
Nakamura, T. and Hamada, H.

## REVIEWS

- 3263** Principles and roles of mRNA localization in animal development  
Medioni, C., Mowry, K. and Besse, F.
- 3277** Partitioning the heart: mechanisms of cardiac septation and valve development  
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## DEVELOPMENT AND STEM CELLS

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Leeb, M., Walker, R., Mansfield, B., Nichols, J., Smith, A. and Wutz, A.
- 3306** p57kip2 regulates glial fate decision in adult neural stem cells  
Jadasz, J. J., Rivera, F. J., Taubert, A., Kandasamy, M., Sandner, B., Weidner, N., Aktas, O., Hartung, H.-P., Aigner, L. and Küry, P.
- 3316** Formation and specification of a *Drosophila* dopaminergic precursor cell  
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## RESEARCH REPORT

- 3326** Slit2 and Robo3 modulate the migration of GnRH-secreting neurons  
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## RESEARCH ARTICLES

- 3332** Convergent repression of Foxp2 3'UTR by miR-9 and miR-132 in embryonic mouse neocortex: implications for radial migration of neurons  
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- 3343** Antagonism of Nodal signaling by BMP/Smad5 prevents ectopic primitive streak formation in the mouse amnion  
Pereira, P. N. G., Dobrev, M. P., Maas, E., Cornelis, F. M., Moya, I. M., Umans, L., Verfaillie, C. M., Camus, A., Chuva de Sousa Lopes, S. M., Huylebroeck, D. and Zwijnen, A.
- 3355** Spatiotemporal manipulation of retinoic acid activity in zebrafish hindbrain development via photo-isomerization  
Xu, L., Feng, Z., Sinha, D., Ducos, B., Ebenstein, Y., Tadmor, A. D., Gauron, C., Le Saux, T., Lin, S., Weiss, S., Vriz, S., Jullien, L. and Bensimon, D.
- 3363** A Sox9/Fgf feed-forward loop maintains pancreatic organ identity  
Seymour, P. A., Shih, H. P., Patel, N. A., Freude, K. K., Xie, R., Lim, C. J. and Sander, M.
- 3373** BMP-dependent serosa and amnion specification in the scuttle fly *Megaselia abdita*  
Rafiqi, A. M., Park, C.-H., Kwan, C. W., Lemke, S. and Schmidt-Ott, U.
- 3383** Epidermal and cortical roles of *NFP* and *DM13* in coordinating early steps of nodulation in *Medicago truncatula*  
Rival, P., de Billy, F., Bono, J.-J., Gough, C., Rosenberg, C. and Bensmihen, S.
- 3392** *Drosophila* CORL is required for Smad2-mediated activation of Ecdysone Receptor expression in the mushroom body  
Takaesu, N. T., Stinchfield, M. J., Shimizu, K., Arase, M., Quijano, J. C., Watabe, T., Miyazono, K. and Newfeld, S. J.

- 3402** COP1 mediates the coordination of root and shoot growth by light through modulation of PIN1- and PIN2-dependent auxin transport in *Arabidopsis*  
**Sassi, M., Lu, Y., Zhang, Y., Wang, J., Dhonukshe, P., Blilou, I., Dai, M., Li, J., Gong, X., Jaillais, Y., Yu, X., Traas, J., Ruberti, I., Wang, H., Scheres, B., Vernoux, T. and Xu, J.**
- 3413** Segregation of eye and antenna fates maintained by mutual antagonism in *Drosophila*  
**Wang, C.-W. and Sun, Y. H.**
- 3422** Pten deletion causes mTorc1-dependent ectopic neuroblast differentiation without causing uniform migration defects  
**Zhu, G., Chow, L. M. L., Bayazitov, I. T., Tong, Y., Gilbertson, R. J., Zakharenko, S. S., Solecki, D. J. and Baker, S. J.**
- 3432** Atonal and EGFR signalling orchestrate *rok*- and *Drak*-dependent adherens junction remodelling during ommatidia morphogenesis  
**Robertson, F., Pinal, N., Fichelson, P. and Pichaud, F.**
- 3442** Principles of branch dynamics governing shape characteristics of cerebellar Purkinje cell dendrites  
**Fujishima, K., Horie, R., Mochizuki, A. and Kengaku, M.**
- 3456** Localised inhibition of FGF signalling in the third pharyngeal pouch is required for normal thymus and parathyroid organogenesis  
**Gardiner, J. R., Jackson, A. L., Gordon, J., Lickert, H., Manley, N. R. and Basson, M. A.**
- 3467** Corrigendum