

















**Cover:** Distribution of GABAergic interneurons (green) in the forebrain visualized by GFP. Coronal section of a Gad67-GFP knock-in mouse at E15.5. Their distribution in the cortex does not coincide with Tag1 immunoreactive corticofugal fibers (red). Dorsal is towards the top and lateral is towards the right. See article by Tanaka et al. on p. 5803.

## Book reviews

- Developmental Biology**, by Gilbert, S. F. Bronner-Fraser, M. 5555
- Fly Cycle<sup>2</sup>**, by Tyler, M. S. and Kozlowski, R. N. Perkins, L. and Perrimon, N. 5556
- Invertebrate Tissue Culture Methods**, by Mitsuhashi, J. Sykes, P. A. and Condrón, B. G. 5557
- Molecular Principles of Animal Development**, by Martínez Arias, A. and Stewart, A. Spagnoli, F. M. and Hemmati-Brivanlou, A. 5558
- Pattern Formation in Zebrafish**, edited by Solnica-Krezel, L. Stemple, D. L. 5559
- The Development of Animal Form: Ontogeny, Morphology, and Evolution**, by Minelli, A. Stern, D. L. 5560
- Patterning in Vertebrate Development**, edited by Tickle, C. Trainor, P. 5561
- Cortical Development. From Specification to Differentiation**, by Hohman, C. F. Gleeson, J. G. 5563
- Principles of Development**, by Wolpert, L., Beddington, R., Jessell, T., Lawrence, P., Meyerowitz E. and Smith, J. Rasskin-Gutman, D. and Izpisua Belmonte, J. C. 5564
- Manipulating the Mouse Embryo**, by Nagy, A., Gertsenstein, M., Vintersten, K. and Behringer, R. Rosenthal, N. 5566

## Research articles

- Yang, J., Wu, J., Tan, C. and Klein, P. S.  PP2A:B56ε is required for Wnt/β-catenin signaling during embryonic development 5569-5578
- Braun, M. M., Etheridge, A., Bernard, A., Robertson, C. P. and Roelink, H.  Wnt signaling is required at distinct stages of development for the induction of the posterior forebrain 5579-5587
- Kunwar, P. S., Zimmerman, S., Bennett, J. T., Chen, Y., Whitman, M. and Schier, A. F.  Mixer/Bon and FoxH1/Sur have overlapping and divergent roles in Nodal signaling and mesoderm induction 5589-5599
- Morris, A. R., Drawbridge, J. and Steinberg, M. S.  Axolotl pronephric duct migration requires an epidermally derived, laminin 1-containing extracellular matrix and the integrin receptor α6β1 5601-5608
- Zhang, C., Basta, T., Jensen, E. D. and Klymkowsky, M. W.  The β-catenin/VegT-regulated early zygotic gene *Xnr5* is a direct target of SOX3 regulation 5609-5624
- Larsen, C. W., Hirst, E., Alexandre, C. and Vincent, J.-P.  Segment boundary formation in *Drosophila* embryos 5625-5635
- Konishi, M. and Sugiyama, M.  Genetic analysis of adventitious root formation with a novel series of temperature-sensitive mutants of *Arabidopsis thaliana* 5637-5647
- Yaniv, K., Fainsod, A., Kalcheim, C. and Yisraeli, J. K.  The RNA-binding protein Vg1 RBP is required for cell migration during early neural development 5649-5661
- Gavalas, A., Ruhrberg, C., Livet, J., Henderson, C. E. and Krumlauf, R.  Neuronal defects in the hindbrain of *Hoxa1*, *Hoxb1* and *Hoxb2* mutants reflect regulatory interactions among these Hox genes 5663-5679

- Cheung, M. and Briscoe, J.  Neural crest development is regulated by the transcription factor Sox9 5681-5693
- Piekny, A. J., Johnson, J.-L. F., Cham, G. D. and Mains, P. E.  The *Caenorhabditis elegans* nonmuscle myosin genes *nmy-1* and *nmy-2* function as redundant components of the *let-502*/Rho-binding kinase and *mel-11*/myosin phosphatase pathway during embryonic morphogenesis 5695-5704
- Sutherland, D. J., Li, M., Liu, X.-q., Stefancsik, R. and Rafferty, L. A.  Stepwise formation of a SMAD activity gradient during dorsal-ventral patterning of the *Drosophila* embryo 5705-5716
- Tsou, M.-F., Hayashi, A. and Rose, L. S.  LET-99 opposes Gα/GPR signaling to generate asymmetry for spindle positioning in response to PAR and MES-1/SRC-1 signaling 5717-5730
- Bergmann, D. C., Lee, M., Robertson, B., Tsou, M.-F. B., Rose, L. S. and Wood, W. B.  Embryonic handedness choice in *C. elegans* involves a Gα protein GPA-16 5731-5740
- Holzschuh, J., Barrallo-Gimeno, A., Ettl, A.-K., Dürr, K., Knapik, E. W. and Driever, W.  Noradrenergic neurons in the zebrafish hindbrain are induced by retinoic acid and require *tfap2a* for expression of the neurotransmitter phenotype 5741-5754
- Knight, R. D., Nair, S., Nelson, S. S., Afshar, A., Javidan, Y., Geisler, R., Rauch, G.-J. and Schilling, T. F.  *lockjaw* encodes a zebrafish *tfap2a* required for early neural crest development 5755-5768
- Knox, K., Grierson, C. S. and Leyser, O.  *AXR3* and *SHY2* interact to regulate root hair development 5769-5777
- Mergliano, J. and Minden, J. S.  Caspase-independent cell engulfment mirrors cell death pattern in *Drosophila* embryos 5779-5789
- Ding, M., Goncharov, A., Jin, Y. and Chisholm, A. D.  *C. elegans* ankyrin repeat protein VAB-19 is a component of epidermal attachment structures and is essential for epidermal morphogenesis 5791-5801
- Tanaka, D., Nakaya, Y., Yanagawa, Y., Obata, K. and Murakami, F.  Multimodal tangential migration of neocortical GABAergic neurons independent of GPI-anchored proteins 5803-5813
- Müller, M., Jabs, N., Lorke, D. E., Fritzsche, B. and Sander, M.  Nkx6.1 controls migration and axon pathfinding of cranial branchio-motoneurons 5815-5826
- Wirth, M. J., Brün, A., Grabert, J., Patz, S. and Wahle, P.  Accelerated dendritic development of rat cortical pyramidal cells and interneurons after biolistic transfection with BDNF and NT4/5 5827-5838
- Sardet, C., Nishida, H., Prodon, F. and Sawada, K.  Maternal mRNAs of *PEM* and *macho 1*, the ascidian muscle determinant, associate and move with a rough endoplasmic reticulum network in the egg cortex 5839-5849
- Research article: Development and disease**
- Bassett, D. I., Bryson-Richardson, R. J., Daggett, D. F., Gautier, P., Keenan, D. G. and Currie, P. D.  Dystrophin is required for the formation of stable muscle attachments in the zebrafish embryo 5851-5860
- Erratum** 5861