



Cover: Longitudinal section through a tibia of a 4-week-old mouse, stained with Picrosirius Red and viewed under polarized light. The larger collagen fibers in the bone are orange or yellow, whereas the thinner collagen fibers of the cartilage are green. See article by Stickens et al. on p. 5883.

Book reviews

- Gastrulation: From Cells to Embryo**, edited by Stern, C. D. Solnica-Krezel, L. 5767
- Biased Embryos and Evolution**, by Arthur, W. Sommer, R. J. 5769
- On Growth, Form and Computers**, edited by Kumar, S. and Bentley, P. J. Lewis, J. 5770
- Embryology, Epigenesis, and Evolution: Taking Development Seriously**, by Robert, J. S. Arthur, W. 5772
- Polarity in Plants: Annual Plant Reviews, Volume 12**, edited by Lindsey, K. Sauer, M. and Friml, J. 5774
- The Skeleton: Biochemical, Genetic, and Molecular Interactions in Development and Homeostasis**, by Massaro, E. J. and Rogers, J. M. Olsen, B. R. 5775
- Principles of Developmental Biology**, by Wilt, F. H. and Hake, S. C. Browder, L. W. 5777
- Inborn Errors of Development**, edited by Epstein, C. J., Erickson, R. P. and Wynshaw-Boris, A. Muenke, M. 5778
- Fly Pushing: The Theory and Practice of Drosophila Genetics, 2nd Edition**, by Greenspan, R. J. Rogers, E. M. and Moses, K. 5779

Review

- Dubrulle, J. and Pourquié, O.**
Coupling segmentation to axis formation 5783-5793

Research articles

- Grabbe, C., Zervas, C. G., Hunter, T., Brown, N. H. and Palmer, R. H.**
Focal adhesion kinase is not required for integrin function or viability in *Drosophila* 5795-5805
- Tian, X., Hansen, D., Schedl, T. and Skeath, J. B.**
Epsin potentiates *Notch* pathway activity in *Drosophila* and *C. elegans* 5807-5815
- Kemler, R., Hierholzer, A., Kanzler, B., Kuppig, S., Hansen, K., Taketo, M. M., de Vries, W. N., Knowles, B. B. and Solter, D.**
Stabilization of β -catenin in the mouse zygote leads to premature epithelial-mesenchymal transition in the epiblast 5817-5824
- Little, S. C. and Mullins, M. C.**
Twisted gastrulation promotes BMP signaling in zebrafish dorsal-ventral axial patterning 5825-5835
- Miguel-Aliaga, I., Allan, D. W. and Thor, S.**
Independent roles of the *dachshund* and *eyes absent* genes in BMP signaling, axon pathfinding and neuronal specification 5837-5848

- Forrest, K. M., Clark, I. E., Jain, R. A. and Gavis, E. R.**
Temporal complexity within a translational control element in the *nanos* mRNA 5849-5857
- Kuo, D.-H. and Shankland, M.**
Evolutionary diversification of specification mechanisms within the O/P equivalence group of the leech genus *Helobdella* 5859-5869
- Brugmann, S. A., Pandur, P. D., Kenyon, K. L., Pignoni, F. and Moody, S. A.**
Six1 promotes a placodal fate within the lateral neurogenic ectoderm by functioning as both a transcriptional activator and repressor 5871-5881
- Stickens, D., Behonick, D. J., Ortega, N., Heyer, B., Hartenstein, B., Yu, Y., Fosang, A. J., Schorpp-Kistner, M., Angel, P. and Werb, Z.**
Altered endochondral bone development in matrix metalloproteinase 13-deficient mice 5883-5895
- Riechmann, V. and Ephrussi, A.**
Par-1 regulates *bicoid* mRNA localisation by phosphorylating Exuperantia 5897-5907
- Waxman, J. S., Hocking, A. M., Stoick, C. L. and Moon, R. T.**
Zebrafish Dapper1 and Dapper2 play distinct roles in Wnt-mediated developmental processes 5909-5921
- Kapsimali, M., Caneparo, L., Houart C. and Wilson, S. W.**
Inhibition of Wnt/Axin/ β -catenin pathway activity promotes ventral CNS midline tissue to adopt hypothalamic rather than floorplate identity 5923-5933
- Tayler, T. D., Robichaux, M. B. and Garrity, P. A.**
Compartmentalization of visual centers in the *Drosophila* brain requires Slit and Robo proteins 5935-5945
- Bénard, C. Y., Kébir, H., Takagi, S. and Hekimi, S.**
mau-2 acts cell-autonomously to guide axonal migrations in *Caenorhabditis elegans* 5947-5958
- Park, H.-C., Shin, J. and Appel, B.**
Spatial and temporal regulation of ventral spinal cord precursor specification by Hedgehog signaling 5959-5969
- Adam, J. C. and Montell, D. J.**
A role for *extra macrochaetae* downstream of Notch in follicle cell differentiation 5971-5980
- Masiero, S., Li, M.-A., Will, I., Hartmann, U., Saedler, H., Huijser, P., Schwarz-Sommer, Z. and Sommer, H.**
INCOMPOSITA: a MADS-box gene controlling prophyll development and floral meristem identity in *Antirrhinum* 5981-5990
- Lai, T. and Garriga, G.**
The conserved kinase UNC-51 acts with VAB-8 and UNC-14 to regulate axon outgrowth in *C. elegans* 5991-6000
- Davis, M. W., Birnie, A. J., Chan, A. C., Page, A. P. and Jorgensen, E. M.**
A conserved metalloprotease mediates ecdysis in *Caenorhabditis elegans* 6001-6008