

Developmental Biology 13e, Chapter 2 Literature Cited

- Briggs, J. A., C. Weinreb, D. E. Wagner, S. Megason, L. Peshkin, M. W. Kirschner and A. M. Klein. 2018. The dynamics of gene expression in vertebrate embryogenesis at single-cell resolution. *Science* 360: eaar5780.
- Brooks, W. K. 1883. *The Law of Heredity: A Study of the Cause of Variation and the Origin of Living Things*. Facsimile reprint: Kessinger LLC 2008.
- Conklin, E. G. 1905. The organization and cell lineage of the ascidian egg. *J. Acad. Nat. Sci. Phila.* 13: 1–119.
- Driesch, H. 1892. The potency of the first two cleavage cells in echinoderm development: Experimental production of partial and double formations. In B. H. Willier and J. M. Oppenheimer (eds.), *Foundations of Experimental Embryology*. Hafner, New York 1974.
- Driesch, H. 1893. Zur Verlagerung der Blastomeren des Echinideneies. *Anat. Anz.* 8: 348–357.
- Farrell, J. A., Y. Wang, S. J. Riesenfeld, K. Shekhar, A. Regev and A. F. Schier. 2018. Single-cell reconstruction of developmental trajectories during zebrafish embryogenesis. *Science* 360: eaar3131.
- Gregor, T., D. W. Tank, E. F. Wieschaus and W. Bialek. 2007. Probing the limits to positional information. *Cell* 130: 153–164.
- Hamburger, V. 1997. Wilhelm Roux: Visionary with a blind spot. *J. Hist. Biol.* 30: 229–238.
- Harland, R. M. 2018. A new view of embryo development and regeneration. *Science* 360: 967–968.
- Harrison, R. G. 1933. Some difficulties of the determination problem. *Am. Nat.* 67: 306–321.
- Kanesaki, T., C. M. Edwards, U. S. Schwarz and J. Grosshans. 2011. Dynamic ordering of nuclei in syncytial embryos: A quantitative analysis of the role of cytoskeletal networks. *Integr. Biol.* 3: 1112–1119.
- Kimata, Y., T. Higaki, T. Kawashima, D. Kurihara, Y. Satof, T. Yamada, S. Hasezawa, F. Berger, T. Higashiyama and M. Ueda. 2016. Cytoskeleton dynamics control the first asymmetric cell division in *Arabidopsis* zygote. *Proc. Nat. Acad. Sci. USA* 113: 14157–14162.

- Kimelman, D. and B. L. Martin. 2012. Anterior-posterior patterning in early development: Three strategies. *Wiley Interdiscip. Rev. Dev. Biol.* 1: 253–266.
- Klein, S. L. and S. A. Moody. 2016. When family history matters: The importance of lineage analyses and fate maps for explaining animal development. *Curr. Top. Dev. Biol.* 117: 93–112.
- Koke, C., T. Kanesaki, J. Grosshans, U. S. Schwarz and C. M. Dunlop. 2014. A computational model of nuclear self-organisation in syncytial embryos. *J. Theor. Biol.* 21: 92–100.
- Little, S. C., G. Tkačik, T. B. Kneeland, E. F. Wieschaus and T. Gregor. 2011. The formation of the Bicoid morphogen gradient requires protein movement from anteriorly localized mRNA. *PLOS Biol.* 9: e1000596.
- Lv, Z., J. de Carvalho, I. A. Telley, and J. Grosshans. 2021. Cytoskeletal mechanics and dynamics in the *Drosophila* syncytial embryo. *J Cell Sci* 134(4): jcs246496. doi: 10.1242/jcs.246496.
- Marcus, N. H. 1979. Developmental aberrations associated with twinning in laboratory-reared sea urchins. *Dev. Biol.* 70: 274–277.
- Nishida, H. 1987. Cell lineage analysis in ascidian embryos by intracellular injection of a tracer enzyme. III. Up to the tissue-restricted stage. *Dev. Biol.* 121: 526–541.
- Nishida, H. and K. Sawada. 2001. Macho-1 encodes a localized mRNA in ascidian eggs that specifies muscle fate during embryogenesis. *Nature* 409: 724–729.
- Nüsslein-Volhard, C., H. G. Fröhnhofer and R. Lehmann. 1987. Determination of anteroposterior polarity in *Drosophila*. *Science* 238: 1675–1681.
- Pillitteri, L. J., X. Guo and J. Dong. 2016. Asymmetric cell division in plants: mechanisms of symmetry breaking and cell fate determination. *Cell Mol. Life Sci.* 73: 4213–4229.
- Pourquié, O. 2001. A macho way to make muscles. *Nature* 409: 679–680.
- Qu, L. H., X. Zhou, X. Li, S. S. Li, J. Zhao, P. Zhao, Y. Liu and M. X. Sun. 2017. The autonomous cell fate specification of basal cell lineage: The initial round of cell fate

- specification occurs at the two-celled proembryo stage. *Plant J.* 91: 1051–1063.
- Reverberi, G. and A. Minganti. 1946. Fenomeni di evocazione nello sviluppo dell'uovo di Ascidie. Risultati dell'indagine spermentale sull'ouvo di *Ascidiella aspersa* e di *Ascidia malaca* allo stadio di 8 blastomeri. *Pubbl. Staz. Zool. Napoli* 20: 199–252.
- Sample, C. and S. Y. Shvartsman. 2010. Multiscale modeling of diffusion in the early *Drosophila* embryo. *Proc. Natl. Acad. Sci. USA* 107: 10092–10096.
- Slack, J. M. W. 1991. *From Egg to Embryo: Regional Specification in Early Development*. Cambridge University Press, New York.
- Tomer, R., K. Khairy, F. Amat and P. J. Keller. 2012. Quantitative high-speed imaging of entire developing embryos with simultaneous multiview light-sheet microscopy. *Nat. Methods* 9: 755–763.
- Veeman, M. and W. Reeves. 2015. Quantitative and *in toto* imaging in ascidians: Working toward an image-centric systems biology of chordate morphogenesis. *Genesis* 53: 143–159.
- Wagner, D. E., C. Weinreb, Z. M. Collins, J. A. Briggs, S. G. Megason and A. M. Klein. 2018. Single-cell mapping of gene expression landscapes and lineage in the zebrafish embryo. *Science* 360: 981–987.
- Weismann, A. 1893. *The Germ-Plasm: A Theory of Heredity*. W. Newton Parker and H. Ronnfeld (Trans.). Walter Scott Ltd., London.
- Weissman, T. A. and Y. A. Pan. 2015. Brainbow: New resources and emerging biological applications for multicolor genetic labeling and analysis. *Genetics* 199: 293–306.
- Whittaker, J. R. 1973. Segregation during ascidian embryogenesis of egg cytoplasmic information for tissue-specific enzyme development. *Proc. Natl. Acad. Sci. USA* 70: 2096–2100.
- Wilson, E. B. 1894. The mosaic theory of development. *Biol. Lect. Woods Hole* 2: 1–14.
- Wilson, E. B. 1904. Experimental studies on germinal location. *J. Exp. Zool.* 1: 1–72.