

Developmental Biology 13e, Chapter 1 Literature Cited

- Adams, D. S. 2003. Teaching critical thinking in a developmental biology course at an American liberal arts college. *Int. J. Dev. Biol.* 47: 145–151.
- Affolter, M. 2016. Seeing is believing, or how GFP changed my approach to science. *Curr. Top. Dev. Biol.* 116: 1–16.
- Aristotle. ca. 350 BCE. *The Generation of Animals*. A. L. Peck (trans.); G. P. Goold (ed.). Harvard University Press, Cambridge, MA, 1990.
- Beldade, R., A. Blandin, R. O'Donnell and S. C. Mill. 2017. Cascading effects of thermally induced anemone bleaching on associated anemonefish hormonal stress response and reproduction. *Nat. Commun.* 8: 716.
- Begon, M., J. L. Harper and C. R. Townsend. 1986. *Ecology: Individuals, Populations, and Communities*. Blackwell Scientific, Oxford.
- Bennici, A. 2008. Origin and early evolution of land plants: Problems and considerations. *Commun. Integr. Biol.* 1: 212–218.
- Booth, D. S. and N. King. 2020. Genome editing enables reverse genetics of multicellular development in the choanoflagellate *Salpingoeca rosetta*. *eLife*. 2020: 9: e56193.
- Bouwmeester, H. J. 2021. Plant lipids enticed fungi to mutualism. *Science* 372: 789–790.
- Brodersen, C. R., L. C. Roark and J. Pittermann. 2012. The physiological implications of primary xylem organization in two ferns. *Plant Cell Environ.* 35: 1898–1911.
- Brunet, T. and N. King. 2017. The origin of animal multicellularity and cell differentiation. *Dev. Cell.* 43: 124–140.
- Buschmann, H. and S. Zachgo. 2016. The evolution of cell division: From streptophyte algae to land plants. *Trends Plant Sci.* 21: 872–883.
- Chow, R. L., C. R. Altmann, R. A. Lang, and A. Hemmati-Brivanlou. 1999. Pax6 induces ectopic eyes in a vertebrate. *Development* 126(19): 4213–4222.

- Conklin, E. G. 1905. The organization and cell lineage of the ascidian egg. *J. Acad. Nat. Sci. Phila.* 13: 1–119.
- Cook, M., L. Graham, C. Botha and C. Lavin. 1997. Comparative ultrastructure of plasmodesmata of *Chara* and selected bryophytes: Toward an elucidation of the evolutionary origin of plant plasmodesmata. *Am. J. Bot.* 84: 1169.
- Cretekos, C. J., S. D. Weatherbee, C. H. Chen, N. K. Badwaik, L. Niswander, R. R. Behringer and J. J. Rasweiler 4th. 2005. Embryonic staging system for the short-tailed fruit bat, *Carollia perspicillata*, a model organism for the mammalian order Chiroptera, based upon timed pregnancies in captive-bred animals. *Dev. Dyn.* 233: 721–738.
- Cretekos, C. J., Y. Wang, E. D. Green, NISC Comparative Sequencing Program, J. F. Martin, J. S. Rasweiler IV and R. R. Behringer. 2008. Regulatory divergence modifies limb length between mammals. *Genes Dev.* 22: 141–151.
- Darnell, D. K. and G. C. Schoenwolf. 1997. Modern techniques for labeling in avian and murine embryos. In G. P. Daston (ed.), *Molecular and Cellular Methods in Developmental Toxicology*. CRC Press, Boca Raton, FL, 231–272.
- Darwin, C. 1859. *On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life*. John Murray, London.
- Darwin, C. 1874. *The Descent of Man, and Selection in Relation to Sex*. 2nd Ed. John Murray, London.
- Delaux, P.-M. and 21 others. 2015. Algal ancestor of land plants was preadapted for symbiosis. *Proc. Natl. Acad. Sci. USA* 112: 13390–13395.
- Figas, K. 2020. Clownfish unable to adapt to the climate crisis, scientists say. Earth.Org, May 5th.
- Fodor, A., J. Liu, L. Turner, and B. J. Swalla. 2021. Transitional chordates and vertebrate origins: Tunicates. *Curr. Topics Dev. Biol.* 141: 149–171.
- Freem, L. J., J. M. Delalande, A. M. Campbell, N. Thapar and A. J. Burns. 2012. Lack of organ specific commitment of vagal neural crest cell derivatives as shown by back-transplantation of GFP chicken tissues. *Int. J. Dev. Biol.* 56: 245–254.

- García-Fernández, J. and E. Benito-Gutiérrez. 2009. It's a long way from amphioxus: Descendants of the earliest chordate. *BioEssays* 31: 665–675.
- Gerke, J. and G. H. Braus. 2014. Manipulation of fungal development as source of novel secondary metabolites for biotechnology. *Appl. Microbiol. Biotech.* 98: 8443–8455.
- Gilbert, S. F., J. Sapp and A. I. Tauber. 2012. A symbiotic view of life: We have never been individuals. *Q. Rev. Biol.* 87: 325–341.
- Gilbert, S. F. 2017. Developmental biology, the stem cell of biological disciplines. *PLOS Biol.* 15: e2003691.
- Goldstein, B. 2018. The emergence of the tardigrade *Hypsibius exemplaris* as a model system. *Cold Spring Harbor Protocols* 10: 859–866.
- Haraway, D. J. 2016. *Staying with the Trouble: Making Kin in the Chthulucene*. Duke University Press Books, Durham, NC USA.
- Harholt, J., Ø. Moestrup and P. Ulvskov. 2016. Why plants were terrestrial from the beginning. *Trends Plant Sci.* 21: 96–101.
- Harvey, W. 1651. *Exercitationes de generatione animalium: Quibus accedunt quaedam de partu, de membranis ac humoribus uteri et de conceptione*. London.
- Hawkins, M. B., K. Henke and M. P. Harris 2021. Latent developmental potential to form limb-like skeletal structures in zebrafish. *Cell* 184: 899–911.
- Holland, L. Z. 2000. Body-plan evolution in the Bilateria: Early antero-posterior patterning and the deuterostome-protostome dichotomy. *Curr. Opin. Genet. Dev.* 10: 434–442.
- Holland, L. Z. and N. D. Holland. 2021. Cephalochordates: A window into vertebrate origins. *Curr. Top. Dev. Biol.* 141: 119–147.
- Holtfreter, J. 1968. Address in honor of Viktor Hamburger. In M. Locke (ed.), *The Emergence of Order in Developing Systems. The Twenty-Seventh Symposium of the Society for Developmental Biology*. Academic Press, New York, ix–xx

- Huijser, P. and M. Schmid. 2011. The control of developmental phase transitions in plants. *Development* 138: 4117–4129.
- Irie, N. and S. Kuratani. 2011. Comparative transcriptome analysis reveals vertebrate phylotypic period during organogenesis. *Nat. Commun.* 2: 248.
- Jones, V. A. and L. Dolan. 2012. The evolution of root hairs and rhizoids. *Ann. Bot.* 110: 205–212.
- Judson, O. P. 2017. The energy expansions of evolution. *Nat. Ecol. Evol.* 1: 138.
- Keibel, F. 1904. *Normentafeln zur Entwicklungsgeschichte der Wirbeltiere*, Heft IV. Gustav Fischer, Jena.
- Kenrick, P. 2017. How land plant life cycles first evolved. *Science* 358: 1538–1539.
- Koornneef, M. and D. Meinke. 2010. The development of *Arabidopsis* as a model plant. *Plant J.* 61: 909–921.
- Kowalevsky, A. O. 1866. Entwicklungsgeschichte der einfachen Ascidien. *Mem. Acad. Sci. St Petersburg* 10: 1–19.
- Kowalevsky, A. O. 1867. Entwicklungsgeschichte des *Amphioxus lanceolatus*. *Mem. Acad. Imp. Sci. St Pétersbourg* 11: 1–17.
- Le Douarin, N. M. 1969. Particularités du noyau interphasique chez la Caille japonaise (*Coturnix coturnix japonica*). Utilisation de ces particularités comme “marquage biologique” dans les recherches sur les interactions tissulaires et les migrations cellulaires au cours de l’ontogenèse. *Bull. Biol. Fr. Belg.* 103: 435–452.
- Le Douarin, N. M. and M.-A. Teillet. 1973. The migration of neural crest cells to the wall of the digestive tract in avian embryo. *J. Embryol. Exp. Morphol.* 30: 31–48.
- Lenz, W. 1962. Thalidomide and congenital abnormalities. *Lancet* 1: 45.
- Lenz, W. 1966. Malformations caused by drugs in pregnancy. *Am. J. Dis. Child.* 112: 99–106.

- Levin, M. and 25 others. 2016. The mid-developmental transition and the evolution of body plans. *Nature* 531: 637–641.
- Levin, T. C., A. J. Greaney, L. Wetzel and N. King. 2014. The *Rosetteless* gene controls development in the choanoflagellate *S. rosetta*. *Elife* 9: 3.
- Lyson, T. R., G. S. Bever, T. M. Scheyer, A. Y. Hsiang, and J. A. Gauthier. 2013. Evolutionary origin of the turtle shell. *Curr. Biol.* 23: 1113–1119
- Maldonado, M. 2006. The ecology of the sponge larva. *Can. J. Zool.* 84: 175–194.
- Martin, W. F. and J. F. Allen. 2018. An algal greening of land. *Cell* 174: 256–258.
- Mikkelsen, M. D. and 7 others. 2014. Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. *Ann. Bot.* 114: 1217–1236.
- Moody, L. A. 2020. Three-dimensional growth: A developmental innovation that facilitated plant terrestrialization. *J. Plant Res.* 133: 283–290.
- Nakanishi, N., S. Sogabe and B. M. Degnan. 2014. Evolutionary origin of gastrulation: Insights from sponge development. *BMC Biol.* 12: 26.
- Ni, M., M. Feretzaki, S. Sun, X. Wang and J. Heitman. 2011. Sex in fungi. *Annu Rev Genet* 45: 405–430.
- Niklas, K. J. 2013. The evolutionary-developmental origins of multicellularity. *Am. J. Bot.* 101: 6.
- Niklas, K. J. and S. A. Newman. 2020. The many roads to and from multicellularity. *J Exp. Botany* 71: 3247–3253.
- Nishiyama, T. and 59 others. 2018. The *Chara* genome: Secondary complexity and implications for plant terrestrialization. *Cell* 174: 448–464.

- Nosenko, T. and 12 others. 2013. Deep metazoan phylogeny: When different genes tell different stories. *Mol. Phylogenet. Evol.* 67: 223–233.
- Nowack, E. 1965. Die sensible Phase bei der Thalidomide-Embryopathie. *Humangenetik* 1: 516–536.
- Palovaara, J., T. de Zeeuw, and D. Weijers. 2016. Tissue and organ initiation in the plant embryo: A first time for everything. *Annu. Rev. Cell Dev. Biol.* 32: 47–75.
- Pander, C. 1817. *Beiträge zur Entwicklungsgeschichte des Hünchens im Eye*. Brönner, Würzburg.
- Papaioannou, V. E. 2016. Concepts of cell lineage in mammalian embryos. *Curr. Top. Dev. Biol.* 117: 195–198.
- Popper, Z. A. and 7 others. 2011. Evolution and diversity of plant cell walls: From algae to flowering plants. *Annu. Rev. Plant Biol.* 62: 567–590.
- Provat, N. J. and 25 others. 2016. 50 years of *Arabidopsis* research: Highlights and future directions. *New Phytol.* 209: 921–944.
- Rawles, M. E. 1940. The pigment-forming potency of early chick blastoderm. *Proc. Natl. Acad. Sci. USA* 26: 86–94.
- 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.
- Rich, M. K. and 24 others. 2021. Lipid exchanges drove the evolution of mutualism during plant terrestrialization. *Science* 372: 864–868.
- Schoenebeck, J. J. and 14 others. 2012. Variation of BMP3 contributes to dog breed skull diversity. *PLOS Genet.* 8: e1002849.
- Sears, K. E., R. R. Behringer, J. J. Rasweiler IV and L. A. Niswander. 2006. Development of bat flight: Morphologic and molecular evolution of bat wing digits. *Proc. Natl. Acad. Sci. USA* 103: 6581–6586.

- Steinmetz, P. R. H., A. Aman, J. E. M. Kraus and U. Technau. 2017. Gut-like ectodermal tissue in a sea anemone challenges germ layer homology. *Nat. Ecol. Evol.* 1: 1535–1542.
- Tenlen, J. R., S. McCaskill and B. Goldstein. 2013. RNA interference can be used to disrupt gene function in tardigrades. *Dev. Genes Evol.* 223: 171–181.
- Thorogood, P. 1997. The relationship between genotype and phenotype: Some basic concepts. In P. Thorogood (ed.), *Embryos, Genes, and Birth Defects*. Wiley, New York, 1–16.
- Toms, D. A. 1962. Thalidomide and congenital abnormalities. *Lancet* 2: 400.
- Vargesson, N. 2015. Thalidomide-induced teratogenesis: History and mechanisms. *Birth Defects Res. C: Embryol. Today* 105: 140–156.
- Vogt, W. 1929. Gestaltungsanalyse am Amphibienkeim mit örtlicher Vitalfärbung. II. Teil Gastrulation und Mesodermbildung bei Urodelen und Anuren. *Wilhelm Roux Arch. Entwicklungsmech. Org.* 120: 384–706.
- von Baer, K. E. 1828. *Entwicklungsgeschichte der Thiere: Beobachtung und Reflexion*. Bornträger, Königsberg.
- Weatherbee, S. D., R. R. Behringer, J. J. Rasweiler IV and L. A. Niswander. 2006. Interdigital webbing retention in bat wings illustrates genetic changes underlying amniote limb diversification. *Proc. Natl. Acad. Sci. USA* 103: 15103–15107.
- Weismann, A. 1875. *Über den Saison-Dimorphismus der Schmetterlinge*. In *Studien zur Descendenz-Theorie*. Engelmann, Leipzig.
- Willier, B. H. and M. E. Rawles. 1938. Feather characterization as studied in host-graft combinations between chick embryos of different breeds. *PNAS* 24: 446–452.
- Winsor, M. P. 1969. Barnacle larvae in the nineteenth century: A case study in taxonomic theory. *J. Hist. Med. Allied Sci.* 24: 294–309.
- Winter, R. M. 1996. Analysing human developmental abnormalities. *BioEssays* 18: 965–971.
- Woo, K. and S. E. Fraser. 1995. Order and coherence in the fate map of the zebrafish embryo. *Development* 121: 2595–2609.

Yoshida, S. and 6 others. 2014. Genetic control of plant development by overriding a geometric division rule. *Dev. Cell* 29: 75–87.