

Essential developmental biology

Blackwell Science - Slack: Essential Developmental Biology, 3rd Edition

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 Notes: Includes bibliographical references and index.
 This edition was published in 2001



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Developmental biology

Stem cell biology has huge potential for advancing therapies for many distressing and recalcitrant diseases, and its potential will be realized most quickly when as many people as possible have a good grounding in the science of stem cells. Adequate philosophical models of the systematic dependence between genetic and physical difference makers in ontogeny need to account for how the temporal relations necessary for making causal claims are anchored in an external periodization used by developmental biologists. This unambiguously removes the tension that plagued functional homology.

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First-rate illustrations complete this essential package. As idealizations of ontogeny, normal stages allow for a classification of developmental events that is comprehensive with suitably sized and relatively homogeneous stages, reasonably sharp boundaries between stages, and stability under different investigative conditions Dupré 2001 , which encourages more precise explanations within particular disciplinary approaches Griesemer 1996.

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Two of these have the ability to regenerate whole bodies: , which can regenerate any part of the polyp from a small fragment, and worms, which can usually regenerate both heads and tails. For each territory of cells the growth rate is controlled by the combination of genes that are active. The function of vertebrate wings i.

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The central problem of developmental biology is to understand how a relatively simple and homogeneous cellular mass can differentiate into a relatively complex and heterogeneous organism closely resembling its progenitor s in relevant aspects Robert 2004: 1.

Developmental biology Perspectives, Developmental processes, Embryonic development of animals, Plant development, The Free Encyclopedia

Bibliography Includes bibliographical references and index. Straightforward diagrams present important concepts, which are easy to remember and reproduce.

Slack: Essential Developmental Biology, 3rd Edition

Most developmental biologists consider model organisms as exemplars, not surrogates.

Essential Developmental Biology

Includes review questions at the end of each chapter to help you assess your knowledge.

Developmental biology Perspectives, Developmental processes, Embryonic development of animals, Plant development, The Free Encyclopedia

Contains expanded treatment of mammalian fertilization, the heart and stem cells. All researchers in the biological and medical sciences who use labelled probes in their work will find this book an invaluable practical guide, whether they are experienced users or just starting work in this area.

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