

Principles Of Development Wolpert

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developmental biology is at the core of all biology this text emphasises the principles and key developments in order to provide an approach and style that will appeal to students at all levels

wolpert s principles of development the latest edition of the prize winning textbook opens up the fascinating field of developmental biology

to undergraduates studying biology medicine and veterinary science by focusing on the underlying processes shared by diverse organisms the textbook lays the foundation for a deep understanding key features an emphasis throughout on the underlying principles which underpin the commonalities between different organisms and their development enables students to get a clear sense of the big picture of the subject custom drawn artwork and integrated animations and videos help to make the visualisation of processes and mechanisms in this challenging subject as straightforward as possible medical boxes explore key developmental diseases and explain how developmental biology furthers our understanding human health and disease further experimental detail including experimental boxes from both classic and current research demonstrates how we know what we know also available as an e book enhanced with learning objectives self assessment interactive quizzes and multi media content to offer a fully immersive experience and extra learning support new to this edition chapter 7 a new chapter on embryonic stem cells embryo models and regenerative medicine to ensure the book's coverage stays up to date with this very active area of developmental biology research chapters 3 and 4 on vertebrate development have been restructured and updated especially in relation to mouse development to ensure major concepts and principles are explained with recent supporting experimental evidence chapter 10 on the nervous system has been completely revised and updated with more emphasis on neural tube patterning chapter 14 which covers nematodes and sea urchins now appears online as part of the ebook there are more examples of the use of crispr to address problems like sickle cell disease ch6 and evolution of limbs from fins ch13 examples of single cell rna sequencing can be found throughout the book ch3 ch6 ch7 ch10 ch11 ch12 smaller revisions updates and new figures have been included throughout digital formats and resources the seventh edition is available for students and institutions to purchase in a variety of formats the e book and science trove offer a mobile experience and convenient access along with interactive self test questions videos flashcards supplementary materials functionality tools navigation features and links that offer extra learning support for more information about e books please visit oxfordtextbooks.co.uk/ebooks

principles of development reveals the universal principles that govern the process of development illustrating how a highly complex living organism forms from just a single fertilized egg

from a single cell a fertilized egg comes an elephant a fly or a human how does this astonishing feat happen how does the egg know what to become how does it divide into the different cells the separate tissues the brain the fingernail every tiniest detail of the growing foetus these are the questions that the field of developmental biology seeks to answer it is an area that is closely linked to genetics evolution and molecular biology the processes are deeply rooted in evolutionary history the information is held in genes whose vital timings in switching

on and off is orchestrated by a host of proteins expressed by other genes timing is of the essence here the distinguished developmental biologist lewis wolpert gives a concise account of what we now know about development discussing the first vital steps of growth the patterning created by hox genes and the development of form embryonic stem cells the timing of gene expression and its management chemical signalling and growth about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

wolpert s principles of development opens up the fascinating field of developmental biology to undergraduates studying biology medicine and veterinary science by focusing on the underlying developmental processes which are shared by diverse organisms the textbook lays the foundation for deep understanding

developmental biology is at the core of all biology this text emphasizes the principles and key developments in order to provide an approach and style that will appeal to students at all levels

cell interactions in differentiation

the fifth edition adds the ecological dimension to its integration of molecular cellular and organismal approaches with a new chapter concerning the ways by which the environment effects the phenotype of the organism other changes which reflect developments in the field include an earlier more complete introduction to gene activity and signal transduction pathways and new emphasis on the roles of paracrine factors in development part five begins with an overview of the fibroblast growth factor tgfbeta wnt and hedgehog families of growth and differentiation factors annotation copyrighted by book news inc portland or

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