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Principles of Development. 4th Edition. by Lewis Wolpert (Author), Cheryll Tickle (Author) 4.2 out of 5 stars 10 ratings. ISBN-13: 978-0199554287. ISBN-10: 0199554285. Why is ISBN important? ISBN. This bar-code number lets you verify that you're getting exactly the right version or edition of a book.

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~~Wolpert, et al., Principles of Development~~

"Lewis Wolpert CBE FRS FRS� FMedSci (born 19 October 1929) is a South African-born British developmental biologist, author, and broadcaster. Wolpert is recognized for his work on the intracellular positional information that guides cellular development. In addition, he has published several popular science books.

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~~How does a single cell develop into myriad different specialised cell types, control the organization of these different cells into tissues and organs, and ultimately form an unimaginably complex living organism such as a human? Furthermore, how is it possible for some adult animals, but not others, to regenerate fully functioning limbs? Principles of Development opens up the fascinating field of developmental biology to those wanting to understand the answers to questions such as these. Cutting edge science is explained clearly and succinctly and is richly illustrated with a variety of custom drawn figures, animations, and links to online movies that show development happening in real time. The emphasis throughout the text is always on the key principles of development - the underlying processes shared by diverse groups of organisms. This focus on principles provides a framework on which a richer understanding of specific topics can be built. Moreover, extensive pedagogical support is provided, both in the book and online, making this text the complete package for those studying developmental biology. Online Resources For students: -Test your understanding with multiple choice questions and answer guidance to long-answer questions from the book -Gain a three dimensional perspective of development by watching the movies of developing model organisms -View the signalling pathway animations to see these complex processes broken down step by step -Expand your knowledge and guide your studies with the suggested web activities - Examine and interpret raw data obtained by Cheryll Tickle and members of her laboratory and presented in silico For registered adopters of the text: -Download the figures from the book to use in lectures and hand-outs -Help your students delve into the research literature with the Journal Club -Download the test bank or import it into your VLE -PowerPoint of In silico practicals to use in class~~

~~Developmental biology is at the core of all biology. It deals with the processes by which the genes in the fertilized egg control cell behavior in the embryo and so determine its pattern, its form, and much of its behavior. The progress in developmental biology in recent years, with the applications of advances in cell and molecular biology, has been remarkable, and an enormous amount of information is now available. Designed for undergraduates, Principles of Development emphasizes basic principles and key concepts in developmental biology. Central to the authors' approach is the idea that development can best be understood by analyzing how genes control cell behavior. They have assumed that students have some basic familiarity with cell biology and genetics, but all key concepts, like the control of gene activity, are explained in the text. The authors have resisted the temptation to cover every aspect of development and have instead focused on those systems that best illuminate common principles, demonstrating throughout the book that there are universal principles governing development. The focus of the text is on vertebrates and Drosophila, but not to the exclusion of other systems, such as the nematode and the sea urchin, where they best illustrate a concept. An important feature of the book is the inclusion of the development of plants, a topic that has some unique and significant attributes but one that is usually neglected in other texts. Principles are presented clearly and numerous summaries are provided, both in words and in pictures. The illustrations in the book have been carefully designed and chosen to illustrate both experiments and mechanisms.~~

~~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.~~

~~"This is a clear and engagingly written book," declared Nature, "recommended certainly to nonspecialists, but also to developmental biologists." Its exploration of how single cells multiply and develop offers an accessible look at a difficult subject. Easy-to-understand descriptions of experimental studies offer fascinating insights into aging, cancer, regeneration, and evolution. 1993 edition.~~

~~Wolpert draws on the entire history of science, from Thales of Miletus to Watson and Crick, from the study of eugenics to the discovery of the double helix. The result is a scientist's view of the culture of science, authoritative, informed, and mercifully accessible to those who find cohabiting with this culture a puzzling experience.~~

Visualizing Human Biology is a visual exploration of the major concepts of biology using the human body as the context. Students are engaged in scientific exploration and critical thinking in this product specially designed for non-science majors. Topics covered include an overview of human anatomy and physiology, nutrition, immunity and disease, cancer biology, and genetics. The aim of Visualizing Human Biology is a greater understanding, appreciation and working knowledge of biology as well as an enhanced ability to make healthy choices and informed healthcare decisions.

"This brief textbook of human development covers the events of fertilization, gestation, and sex determination, followed by descriptions of the science of cloning, stem cells, and genome sequencing. The chapter covering the science is juxtaposed with a chapter discussing ethical questions that arise, such as when does life begin, should assisted reproductive technologies be regulated, and should parents be allowed to choose their child's sex"--Provided by publisher.

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