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

"Lewis Wolpert CBE FRS FRSL 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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Lewis Wolpert "Principles of Development" is designed for undergraduates. The emphasis is on principles and key concepts. Central to the authors' approach is that development can best be understood by understanding how genes control cell behaviour.

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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.

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The process of biological development is an amazing feat of tightly regulated cellular behaviours--differentiation, movement, and growth--powerful enough to result in the emergence of a highly complex living organism from a single cell: the fertilized egg. Principles of Development clearly illustrates the universal principles that govern this process of development in a succinct and accessible style. Cutting-edge science is explained clearly and succinctly, richly illustrated with a variety of custom drawn figures, animations, and online resources. A focus on the key principles of development throughout the text provides a framework on which a richer understanding of specific topics can be built.

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

"A concise account of what we know about development discusses the first vital steps of growth and explores one of the liveliest areas of scientific research."--P. [2] of cover.

"Marvelously funny and provocative."—Publishers Weekly Why do 70 percent of Americans believe in angels, while others are convinced that they were abducted by aliens? What makes people believe in improbable things when all the evidence points to the contrary? And don't almost all of us, at some time or another, engage in magical thinking? In *Six Impossible Things Before Breakfast*, evolutionary biologist Lewis Wolpert delves into the important and timely debate over the nature of belief, looking at its psychological foundations to discover just what evolutionary purpose it could serve. Wolpert takes us through all that science can tell us about the beliefs we feel are instinctive. He deftly explores different types of belief—those of children, of the religious, and of those suffering from psychiatric disorders—and he asks whether it is possible to live without belief, or whether it is a necessary component of a functioning society.

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.

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Essential Developmental Biology is a comprehensive, richly illustrated introduction to all aspects of developmental biology. Written in a clear and accessible style, the third edition of this popular textbook has been expanded and updated. In addition, an accompanying website provides instructional materials for both student and lecturer use, including animated developmental processes, a photo gallery of selected model organisms, and all artwork in downloadable format. With an emphasis throughout on the evidence underpinning the main conclusions, this book is an essential text for both introductory and more advanced courses in developmental biology. Shortlisted for the Society of Biology Book Awards 2013 in the Undergraduate Textbook category. Reviews of the Second Edition: "The second edition is a must have for anyone interested in development biology. New findings in hot fields such as stem cells, regeneration, and aging should make it attractive to a wide readership. Overall, the book is concise, well structured, and illustrated. I can highly recommend it." —Peter Gruss, Max Planck Society "I have always found Jonathan Slack's writing thoughtful, provocative, and engaging, and simply fun to read. This effort is no exception. Every student of developmental biology should experience his holistic yet analytical view of the subject." —Margaret Saha, College of William & Mary

"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.

Biological Processes in Living Systems is the fourth and final volume of the Toward a Theoretical Biology series. It contains essays that deal in detail with particular biological processes: morphogenesis of pattern, the development of neuronal networks, evolutionary processes, and others. The main thrust of this volume brings relevance to the general underlying nature of living systems. Faced with trying to understand how the complexity of molecular microstates leads to the relative simplicity of phenome structures, Waddington-on behalf of his colleagues-stresses on the structure of language as a paradigm for a theory of general biology. This is language in an imperative mood: a set of symbols, organized by some form of generative grammar, making possible the conveyance of commands for action to produce effects on the surroundings of the emitting and the receiving entities. "Biology," he writes, "is concerned with algorithm and program." Among the contributions in this volume are: "The Riemann-Hugoniot Catastrophe and van der Waals Equation," David H. Fowler; "Differential Equations for the Heartbeat and Nerve Impulse," E. Christopher Zeeman; "Structuralism and Biology," Rene Thom; "The Concept of Positional Information and Pattern Formation," Lewis Wolpert; "Pattern Formation in Fibroblast Cultures," Tom Elsdale; "Form and Information," C. H. Waddington; "Organizational Principles for Theoretical Neurophysiology," Michael A. Arbib; "Stochastic Models of Neuroelectric Activity," Jack D. Cowan. Biological Processes in Living Systems is a pioneering volume by recognized leaders in an ever-growing field.

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