



# Principles of Development

By Lewis Wolpert, Cheryll Tickle, Alfonso Martinez Arias

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How does a single cell develop into myriad different specialized cell types, control the organization of these different cells into tissues and organs, and ultimately form an unimaginably complex living organism like a human being? How is it possible for some adult animals, but not others, to regenerate fully functioning limbs?

Answering these questions and many more in captivating detail, *Principles of Development*, Fifth Edition, introduces students to the fascinating field of developmental biology. It clearly and succinctly explains cutting-edge science and illustrates principles with a variety of custom-drawn figures, animations, and links to online movies that show development happening in real time.

The authors consistently focus on the key principles of development--the underlying processes shared by diverse groups of organisms. This emphasis on principles provides a framework on which students can build a rich understanding of specific topics. Extensive pedagogical support materials, both in the book and online, make this text the complete package for students of developmental biology.

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### **Review**

"Now in its fifth edition, this delightful textbook introduces developmental biology in a clear and interesting way, and the authors' enthusiasm leaps out of every page... It will be a useful reference for students of developmental biology and an enjoyable read for anyone interested in this field." --iThe Biologist

### **About the Author**

**Lewis Wolpert** is Emeritus Professor of Biology at University College London.

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**Alfonso Martinez Arias** is Professor of Developmental Mechanics at the University of Cambridge.

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