



# Principles of Development

*Lewis Wolpert, Cheryll Tickle*

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## **Principles of Development** Lewis Wolpert, Cheryll Tickle

The process of biological development is an amazing feat of tightly regulated cellular behaviors--differentiation, movement, and growth--powerful enough to result in the emergence of a highly complex living organism from a single cell, the fertilized egg. Now in a new edition, *Principles of Development* clearly illustrates the universal principles that govern this process of development.

Developmental biology has grown enormously as a discipline in recent years. Designed for undergraduates, this text focuses on key principles and concepts rather than attempting to offer an encyclopedic treatment of the field. It equips students with a conceptual framework that will be invaluable to them throughout their educational careers.

Written by two highly respected and influential developmental biologists, Lewis Wolpert and Cheryll Tickle, *Principles of Development*, Fourth Edition, combines a careful exposition of the subject with insights from several of the world's pioneering researchers. It guides students from the fundamentals to the latest discoveries in the field.

## **DISTINCTIVE FEATURES**

**Focuses on the underlying principles**, thereby addressing one of the biggest challenges facing instructors and students of developmental biology; covering and learning in one semester the vast amount of information encapsulated by the field.

### **Offers the right balance of breadth and depth:**

Addresses all key topics in the field in a uniformly authoritative way, but at a depth that makes it possible to deliver a coherent, well-balanced course in one semester. Rather than attempting to offer exhaustive coverage, it sets out to ensure that, at the end of the course, students have a well-rounded, sound understanding on which to base further studies.

**Integrates vivid illustrations** that have been carefully designed and chosen to illuminate both experiments and mechanisms, clarifying basic principles in a visual manner.

**Provides focused examples**, concentrated on vertebrates and *Drosophila*, but not to the exclusion of other organisms, such as the nematode and the sea urchin, where they best illustrate a concept.

**Covers plant development**--which is frequently neglected in general textbooks on developmental biology--addressing striking recent advances in the understanding of the subject.

**Includes carefully selected suggestions for further reading and an extensive glossary of key terms**

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