



# Essential Developmental Biology

By Jonathan M. W. Slack

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*Essential Developmental Biology*, 2nd Edition, is a concise and well-illustrated treatment of this subject for undergraduates. With an emphasis throughout on the evidence underpinning the main conclusions, this book is suitable as the key text for both introductory and more advanced courses in developmental biology.

- Includes new chapters on Evolution & Development, Gut Development, & Growth and Aging.
- Contains expanded treatment of mammalian fertilization, the heart and stem cells.
- Now features a glossary, notated further reading, and key discovery boxes.
- Illustrated with over 250 detailed, full-color drawings.
- Accompanied by a dedicated website, featuring animated developmental processes, a photo gallery of selected model organisms, and all art in PowerPoint and jpeg formats (also available to instructors on CD-ROM).

An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at [HigherEducation@wiley.com](mailto:HigherEducation@wiley.com) for more information.

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## **Essential Developmental Biology By Jonathan M. W. Slack Bibliography**

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## Editorial Review

### Review

"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 "The molecular and cellular processes that lead to the formation of an embryo are just beginning to be unraveled. This second edition of *Essential Developmental Biology* does the best job I have seen yet to present early on to the student some of the key unifying principles in early animal development. The writing style is exquisite, and the morphological and conceptual complexities involved in the formation of an animal are described in an extremely lucid fashion which will help students acquire a deep understanding of developmental processes." James Deshler, Boston University

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—**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

"The molecular and cellular processes that lead to the formation of an embryo are just beginning to be unraveled. This second edition of *Essential Developmental Biology* does the best job I have seen yet to present early on to the student some of the key unifying principles in early animal development. The writing style is exquisite, and the morphological and conceptual complexities involved in the formation of an animal are described in an extremely lucid fashion which will help students acquire a deep understanding of developmental processes."

—**James Deshler**, Boston University

### From the Back Cover

*Essential Developmental Biology* is a comprehensive, richly illustrated introduction to all aspects of developmental biology. Written in a clear and accessible style, the second edition of this popular textbook has been expanded and updated to include:

- new chapters on evolution and development, gut development, and growth and aging
- extended treatment of mammalian fertilization, the heart, and stem cells
- a glossary, further reading arranged by subject, and boxes featuring classic experiments and key directions for research.

In addition, an accompanying website - [www.blackwellpublishing.com/slack](http://www.blackwellpublishing.com/slack) - 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.

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