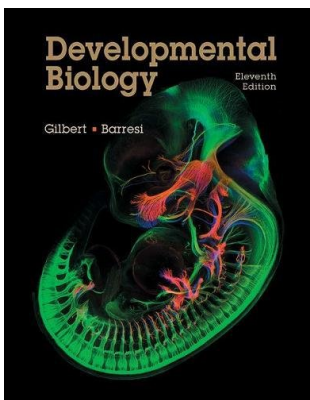


[PDF] Developmental Biology

Scott F. Gilbert, Michael J. F. Barresi - pdf download free book



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Description:

A classic gets a new coauthor and a new approach: *Developmental Biology*, Eleventh Edition, keeps the excellent writing, accuracy, and enthusiasm of the Gilbert *Developmental Biology* book, streamlines it, adds innovative electronic supplements, and creates a new textbook for those teaching Developmental Biology to a new generation.

Several new modes of teaching are employed in the new Gilbert and Barresi textbook. The videos explaining development--as well as those from Mary Tyler's *Vade Mecum*--are referenced throughout

the book, and several other valuable new elements have been added.

Additional updates include:

- * An increased emphasis on stem cells, which are covered extensively and early in the book.
- * Sex determination and gametogenesis, instead of being near the end of the volume, are up front, prior to fertilization.
- * Greatly expanded coverage of neural development, comprising a unit unto itself.
- * Coverage of new experiments on morphogenesis and differentiation, as well as new techniques such as CRISPR.

For Students

Companion Website

Significantly enhanced for the eleventh edition, and referenced throughout the textbook, the *Developmental Biology* Companion Website provides students with a range of engaging resources, in the following categories:

- * **NEW Dev Tutorials:** Professionally produced video tutorials, presented by the textbook's authors, reinforces key concepts.
- * **NEW Watch Development:** Putting concepts into action, these informative videos show real-life developmental biology processes.
- * **Web Topics:** These extensive topics provide more information for advanced students, historical, philosophical, and ethical perspectives on issues in developmental biology, and links to additional online resources.
- * **NEW Scientists Speak:** In these question-and-answer interviews, developmental biology topics are explored by leading experts in the field.
- * Plus the **full bibliography of literature** cited in the textbook (most linked to their PubMed citations).

DevBio Laboratory: Vade Mecum3

Included with each new copy of the textbook, *Vade Mecum3* is an interactive website that helps students understand the organisms discussed in the course, and prepare them for the lab. The site includes videos of developmental processes and laboratory techniques, and has chapters on the following organisms: slime mold (*Dictyostelium discoideum*), planarian, sea urchin, fruit fly (*Drosophila*), chick, and amphibian.

For Instructors

Instructor's Resource Library (available to qualified adopters)

The *Developmental Biology*, Eleventh Edition, Instructor's Resource Library includes the following resources:

- * **NEW Developing Questions:** Answers, references, and recommendations for further reading are

provided so that you and your students can explore the Developing Questions that are posed throughout each chapter.

* **Textbook Figures & Tables:** All of the textbook's figures, photos, and tables are provided both in JPEG (high- and low-resolution) and PowerPoint formats. All images have been optimized for excellent legibility when projected in the classroom.

* **Video Collection:** Includes video segments depicting a wide range of developmental processes, plus segments from *DevBio Laboratory: Vade Mecum3*, and *Differential Expressions2*.

* **Vade Mecum3 PowerPoints:** Chick serial sections and whole mounts, provided in both labeled and unlabeled versions, for use in creating quizzes, exams, or in-class exercises.

* **NEW Case Studies in Dev Bio:** This new collection of case study problems accompanies the Dev Tutorials and provides instructors with ready-to-use in-class active learning exercises. The case studies foster deep learning in developmental biology by providing students an opportunity to apply course content to the critical analysis of data, to generate hypotheses, and to solve novel problems in the field. Each case study includes a PowerPoint presentation and a student handout with accompanying questions.

* **Developmental Biology:** *A Guide for Experimental Study*, Third Edition, by Mary S. Tyler: The complete lab manual, in PDF format.

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