



# Developmental Biology

By Scott F. Gilbert, Michael J. F. Barresi

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**Developmental Biology** By Scott F. Gilbert, Michael J. F. Barresi

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 Experessions2*.

\* **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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## **Editorial Review**

### **About the Author**

**Scott F. Gilbert** is Howard A. Schneiderman Professor Emeritus at Swarthmore College and a Finland Distinguished Professor Emeritus at the University of Helsinki Institute of Biotechnology. He teaches developmental biology, developmental genetics, and the history of biology. After receiving his B.A. from Wesleyan University, he pursued his graduate and postdoctoral research at The Johns Hopkins University and the University of Wisconsin. Dr. Gilbert is the recipient of several awards, including the first Viktor Hamburger Award for excellence in developmental biology education, the Alexander Kowalevsky Prize for evolutionary developmental biology, honorary degrees from the Universities of Helsinki and Tartu, and the Medal of François I from the Collège de France. He is a Fellow of the American Association for the Advancement of Science, a corresponding member of the St. Petersburg Society of Naturalists, and on the International Advisory Board for the National Institute of Basic Biology in Japan. He has been chair of the Professional Development and Education Committee of the Society for Developmental Biology. His research pursues the developmental genetic mechanisms by which the turtle forms its shell and the mechanisms by which plasticity and symbionts contribute to development.

**Michael J. F. Barresi** is an Associate Professor at Smith College in the department of Biological Sciences and Program in Neuroscience. Dr. Barresi was a Biology major and Studio Art minor at Merrimack College. After he received his B.A., Dr. Barresi pursued his doctoral research on muscle fiber type development at Wesleyan University in the laboratory of Dr. Stephen Devoto. He completed his postdoctoral fellowship in Dr. Rolf Karlstrom's laboratory at the University of Massachusetts in Amherst, investigating the development of commissure formation in the zebrafish forebrain. At Smith College, Dr. Barresi's laboratory investigates the molecular and cellular mechanisms governing the development of neural stem cells, commissure formation, and neurodevelopmental responses to environmental teratogens. He has been a member of the Professional Development and Education Committee of the Society for Developmental Biology. Dr. Barresi is an innovator in the classroom, pioneering the use of web conferencing, documentary movie making, and active learning pedagogies in Developmental Biology. Since 2005, he has successfully taught course-based research laboratories in Developmental Biology. In connection with his NSF CAREER award, Dr. Barresi created the "Student Scientists" outreach program to help train and inspire primary and secondary education teachers to infuse investigative curriculum in their classrooms. He was the recipient of the 2012 Sherrerd Prize for Distinguished Teaching at Smith College.

## **Users Review**

### **From reader reviews:**

#### **Doris Simmons:**

This Developmental Biology is great publication for you because the content and that is full of information for you who have always deal with world and have to make decision every minute. This specific book reveal it facts accurately using great organize word or we can claim no rambling sentences inside it. So if you are read this hurriedly you can have whole data in it. Doesn't mean it only provides straight forward sentences but hard core information with wonderful delivering sentences. Having Developmental Biology in your hand like keeping the world in your arm, details in it is not ridiculous a single. We can say that no book that offer you world within ten or fifteen minute right but this publication already do that. So , this is good reading

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**Gary Cornejo:**

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**Gary Morrell:**

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