



## Cell Biology: With STUDENT CONSULT Access, 2e (Pollard, Cell Biology, with Student Consult Online Access)

By Thomas D. Pollard MD, William C. Earnshaw, Jennifer Lippincott-Schwartz PhD

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**Cell Biology: With STUDENT CONSULT Access, 2e (Pollard, Cell Biology, with Student Consult Online Access)** By Thomas D. Pollard MD, William C. Earnshaw, Jennifer Lippincott-Schwartz PhD

A masterful introduction to the cell biology that you need to know! This critically acclaimed textbook offers you a modern and unique approach to the study of cell biology. It emphasizes that cellular structure, function, and dysfunction ultimately result from specific macromolecular interactions. You'll progress from an explanation of the "hardware" of molecules and cells to an understanding of how these structures function in the organism in both healthy and diseased states. The exquisite art program helps you to better visualize molecular structures.

- Covers essential concepts in a more efficient, reader-friendly manner than most other texts on this subject.
- Makes cell biology easier to understand by demonstrating how cellular structure, function, and dysfunction result from specific macromolecular interactions.
- Progresses logically from an explanation of the "hardware" of molecules and cells to an understanding of how these structures function in the organism in both healthy and diseased states.
- Helps you to visualize molecular structures and functions with over 1500 remarkable full-color illustrations that present physical structures to scale.
- Explains how molecular and cellular structures evolved in different organisms.
- Shows how molecular changes lead to the development of diseases through numerous Clinical Examples throughout.
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- **New keystone chapter on the origin and evolution of life on earth** probably the best explanation of evolution for cell biologists available!

- **Spectacular new artwork** by gifted artist Graham Johnson of the Scripps Research Institute in San Diego. 200 new and 500 revised figures bring his keen insight to Cell Biology illustration and further aid the reader's understanding.
- **New chapters and sections on the most dynamic areas of cell biology** - Organelles and membrane traffic by Jennifer Lippincott-Schwartz; RNA processing (including RNAi) by David Tollervey., updates on stem cells and DNA Repair.
- **More readable than ever.** Improved organization and an accessible new design increase the focus on understanding concepts and mechanisms.
- **New guide to figures featuring specific organisms and specialized cells** paired with a list of all of the figures showing these organisms. Permits easy review of cellular and molecular mechanisms.
- **New glossary** with one-stop definitions of over 1000 of the most important terms in cell biology.



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## **Editorial Review**

### Review

**"This book contains everything you want to know and more about cells.** Each section covers a topic by beginning with the basic molecules and background principles and then continuing up to how these give full physiological function.

It is well designed because it contains lots of detail on each subject without drowning out key information for understanding. There are separate boxes on most pages, containing key principles and helpful summary tables alongside many excellent diagrams and research figures. It has been updated from the first edition with the inclusion of the latest research findings and there has also been an effort made to reduce jargon. I would recommend this book for a person wanting to conduct research who needs solid baseline knowledge of cell biology."

*Medical Student, Leicester Medical School, UK*

### From the Author

This beautifully illustrated and sophisticated molecular cell biology text is appropriate for undergraduates, graduate students and medical students. Using a concise style, the book presents a comprehensive, up to date account of how macromolecular interactions explain cellular structure and function. Clinical examples depict how basic cell biology explains human disease.

### About the Author

Thomas D. Pollard, MD, Professor, Department of Molecular, Cellular, and Developmental Biology, Yale University, New Haven, CT; and William C. Earnshaw, PhD, Professor and Wellcome Principal Fellow, Institute of Cell and Molecular Biology, University of Edinburgh, Edinburgh, UK

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**Laurence Asher:**

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