



## Applied Cell and Molecular Biology for Engineers

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### A Guide to the Fundamentals and Latest Concepts of Molecular and Cell Biology

Bridging the gap between biology and engineering, *Applied Cell and Molecular Biology for Engineers* uses clear, straightforward language to introduce you to the cutting-edge concepts of molecular and cell biology.

Written by an international team of engineers and life scientists, this vital tool contains “clinical focus boxes” and “applications boxes” in each chapter to link biology and engineering in today's world. To help grasp complex material quickly and easily, a glossary is provided.

Applied Cell and Molecular Biology for Engineers features:

- Clear descriptions of cell structures and functions
- Detailed coverage of cellular communication
- In-depth information on cellular energy conversion
- Concise facts on information flow across generations
- A succinct guide to the evolution of cells to organisms

### Inside This Biomedical Engineering Guide

Biomolecules: • Energetics • Components of the cell • Cell Morphology: • Cell membranes • Cell organelles  
• Enzyme Kinetics: • Steady-state kinetics • Enzyme inhibition • Cellular Signal Transduction: • Receptor binding • Apoptosis • Energy Conversion: • Cell metabolism • Cell respiration • Cellular Communication: • Direct • Local • Long distance • Cellular Genetics: • DNA and RNA synthesis and repair • Cell Division and Growth: • Cell cycle • Mitosis • Stem cells • Cellular Development: • Germ cells and fertilization • Limb development • From Cells to Organisms: • Cell differentiation • Systems biology

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