



# Molecular and Cell Biology For Dummies

By René Fester Kratz

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## Molecular and Cell Biology For Dummies By René Fester Kratz

Your hands-on study guide to the inner world of the cell

Need to get a handle on molecular and cell biology? This easy-to-understand guide explains the structure and function of the cell and how recombinant DNA technology is changing the face of science and medicine. You discover how fundamental principles and concepts relate to everyday life. Plus, you get plenty of study tips to improve your grades and score higher on exams!

- Explore the world of the cell — take a tour inside the structure and function of cells and see how viruses attack and destroy them
- Understand the stuff of life (molecules) — get up to speed on the structure of atoms, types of bonds, carbohydrates, proteins, DNA, RNA, and lipids
- Watch as cells function and reproduce — see how cells communicate, obtain matter and energy, and copy themselves for growth, repair, and reproduction
- Make sense of genetics — learn how parental cells organize their DNA during sexual reproduction and how scientists can predict inheritance patterns
- Decode a cell's underlying programming — examine how DNA is read by cells, how it determines the traits of organisms, and how it's regulated by the cell
- Harness the power of DNA — discover how scientists use molecular biology to explore genomes and solve current world problems

Open the book and find:

- Easy-to-follow explanations of key topics
- The life of a cell — what it needs to survive and reproduce
- Why molecules are so vital to cells
- Rules that govern cell behavior
- Laws of thermodynamics and cellular work
- The principles of Mendelian genetics
- Useful Web sites
- Important events in the development of DNA technology
- Ten great ways to improve your biology grade

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### Editorial Review

#### About the Author

**René Fester Kratz**, PhD, teaches cellular biology and microbiology. She is a member of the North Cascades and Olympic Science Partnership, where she helped create inquiry-based science courses for future teachers. Kratz is also the author of *Microbiology The Easy Way*.

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