DESCRIPTION

Essential Biochemistry, 4th Edition is comprised of biology, pre-med and allied health topics and presents a broad, but not overwhelming, base of biochemical coverage that focuses on the chemistry behind biology. Furthermore, it relates the chemical concepts that scaffold the biology of biochemistry, providing practical knowledge as well as many problem-solving opportunities to hone skills. Key Concepts and Concept Review features help students to identify and review important takeaways in each section.

ABOUT THE AUTHOR

Charlott Pratt received her Ph.D. in biochemistry from Duke University. She did post-doctoral research at the University of North Carolina at Chapel Hill and has contributed to numerous primary research articles and reviews. She is presently in the Department of Chemistry at Seattle Pacific University. She is co-author with Donald Voet and Judith Voet of Fundamentals of Biochemistry, also published by Wiley.

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**NEW TO EDITION**

- Guided Tours: created by Charlotte Pratt, these multipart animations present big picture concepts conveyed through animations, tutorials and practice.

- ORION, adaptive learning, primer: students enrolled in biochemistry courses often don't have the basic chemistry and biology knowledge to succeed in the course. ORION Foundations provides adaptive self study content for foundational Chapters 1, *The Chemical Basis of Life* and 2, *Aqueous Chemistry*.

- A selection of end of chapter questions can be assigned and graded

- Assignable Brief Bioinformatics exercises Written by Rakesh Mogul, Cal Poly Pomona, these exercises introduce students to the rich variety of biochemical information and software tools available over the Internet and show them how to mine this information, thereby illuminating the connections between theory and applied biochemistry and stimulating student interest and proficiency in the subject.

- Sample calculations: Students come to biochemistry with different levels of math skills. These embedded videos, created by Charlotte Pratt, walk students through the Sample Calculations provided for key equations throughout the text.

- Exercise Questions: Over 750 questions with meaningful immediate feedback. These questions were written by Rachel Milner and Adrienne Wright University of Alberta, based on curating ten years of student misconceptions in the course.

For additional product details, please visit [https://www.wiley.com/en-us](https://www.wiley.com/en-us)