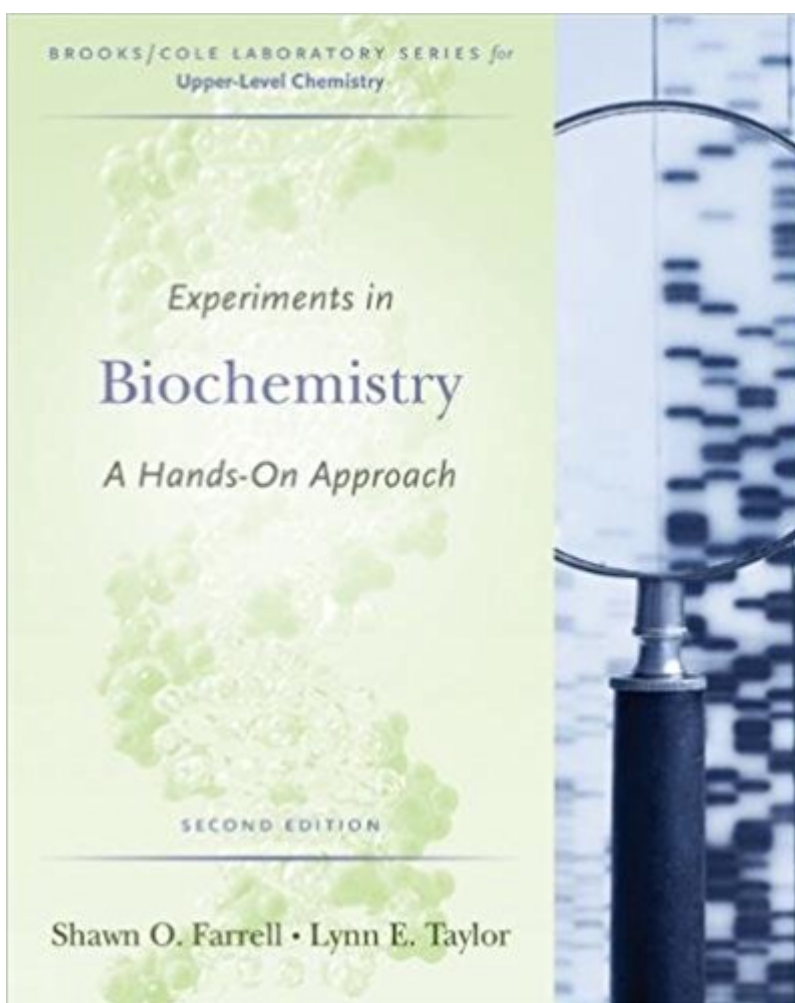




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Experiments In Biochemistry: A Hands-on Approach (Brooks/Cole Laboratory)



Synopsis

This interactive manual, by text author Shawn O. Farrell and co-author Lynn E. Taylor, provides a strong selection of classroom-tested experiments for your introductory biochemistry laboratory course. Each experiment is designed to be completed during a normal laboratory period.

Book Information

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Customer Reviews

Introduction to the Text. Objectives of the Biochemistry Laboratory. Chapter Format of Hands on Biochemistry. 1. Biochemistry Boot Camp. 2. Acids, Bases, and Buffers. 3. Spectrophotometry. 4. Enzyme Purification. 5. Ion Exchange Chromatography. 6. Affinity Chromatography. 7. Gel filtration Chromatography. 8. Enzyme Kinetics. 9. Electrophoresis. 10. Western Blots. 11. Restriction Enzymes. 12. Cloning and Expression of Foreign Proteins. 13. Polymerase Chain Reaction.

Shawn O. Farrell, a native of Northern California, received his B.S. in biochemistry from University of California, Davis, studying carbohydrate metabolism. He completed his Ph.D. in biochemistry at Michigan State University, where he focused on the study of fatty acid metabolism. Dr. Farrell became interested in biochemistry while in college, as it was relevant to his passion for bicycle racing. He raced competitively for 15 years and now officiates bicycle races worldwide. He has taught biochemistry lecture and laboratory courses at Colorado State University for 16 years and now works for USCycling. Professor Farrell has written scientific journal articles about specific

research projects and about laboratory teaching, as well as articles for sports publications, such as "Salmon, Trout, and Steelheader" magazine. He is co-author with Mary Campbell on BIOCHEMISTRY, 7e (Cengage Learning). Lynn Taylor grew up in Minnesota and received her B.A. in Genetics from UC Berkeley. As a research assistant, she studied galactose oxidation in liver at Michigan State University, and cytochrome c oxidase expression in yeast at the University of Colorado-Boulder. Ms. Taylor's interest in molecular biology led her to Colorado State University, where she obtained her M.S. in Biochemistry and Molecular Biology. She has spent 15 years investigating the regulation and expression of key regulatory enzymes involved in maintaining acid-base balance in the kidney, and currently holds the position of senior research associate.

This text is very bare. Not enough detail and no answers for problems in book to work with. If you choose this for students, please only use it as a workbook or lab manual and NOT a main text. Provide solutions to practice problems. This is not nearly enough for use as a main text book (which is what my instructor did!!).

Extensive background contents that will surely help students of non-Biochem major to catch up with the major ones. Good practice problems. Though I would highly suggest reading the book before going to the lab. A better organization of which chapter comes first also helps the students navigate around better as well. Four stars because of the way each chapter was organized in a somewhat random order that caused troubles to both the professors and the students to follow.

Experiments explained well and are usefull for real life work. For me it was a bit hard to understand sometimes.

Confusing and hardly gives you any information, do not like this as a lab notebook

Exactly what I needed but a lot cheaper than buying the actual book

No pages were missing, and the amount of writing was not glaringly excessive. I got a fairly good deal on it so it served its purpose.

The answers to the questions in each section were written in. Kind of takes away from the practice questions for me. Not cool

This book was used in my biochemistry college class. It helped me understand the material in a better overall way.

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