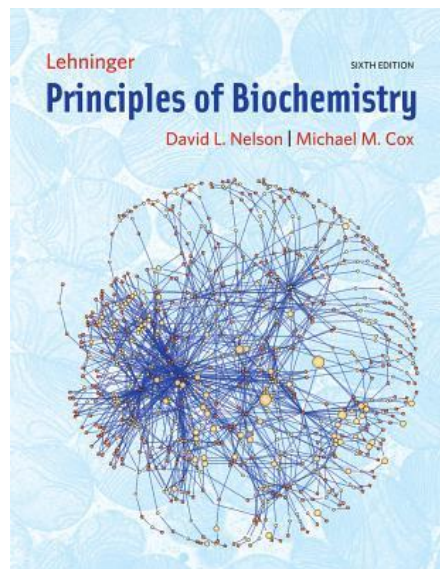




Lehninger Principles of Biochemistry

David L. Nelson , Michael M. Cox

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Clear writing and illustrations...Clear explanations of difficult concepts...Clear communication of the ways in biochemistry is currently understood and practiced. For over 35 years, in edition after bestselling edition, *Principles of Biochemistry* has put those defining principles into practice, guiding students through a coherent introduction to the essentials of biochemistry without overwhelming them.

The new edition brings this remarkable text into a new era. Like its predecessors, *Lehninger Principles of Biochemistry*, Sixth Edition strikes a careful balance of current science and enduring concepts, incorporating a tremendous amount of new findings, but only those that help illustrate biochemistry's foundational principles. With this edition, students will encounter new information emerging from high throughput DNA sequencing, x-ray crystallography, and the manipulation of genes and gene expression, and other techniques. In addition, students will see how contemporary biochemistry has shifted away from exploring metabolic pathways in isolation to focusing on interactions among pathways. They will also get an updated understanding of the relevance of biochemistry to the study of human disease (especially diabetes) as well as the important role of evolutionary theory in biochemical research.

These extensive content changes, as well as new art and powerful new learning technologies make this edition of *Lehninger Principles of Biochemistry* the most impressive yet.

See what's in the LaunchPad

Lehninger Principles of Biochemistry Details

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From Reader Review Lehninger Principles of Biochemistry for online ebook

Allison says

I obviously did not read this book cover to cover, but the sections that I did read were fairly easy to understand, but also managed to go into a fair amount of detail.

Elisabeth says

5th edition. As a biochemistry undergraduate student with an interest in understanding the more comprehensive details of biochemical reactions, I found Lehninger to be very enlightening. For sure, there is a lot of information in this book. It exceeded what I needed to know to succeed in my courses. A strong background in organic chemistry is useful so that you may firmly understand the reaction pathways and molecular interactions. The mechanisms are not advanced, but having a solid understanding of electrophilicity, nucleophilicity, electron density, resonance, sterics, hydrogen bonding, van Der Waals interactions, and other fundamentals from organic chemistry will help you to grasp the material more quickly.

If you are taking biochemistry: read the book. None of my classmates read the book, and they struggled severely. Read the book. You are taking a class now where you have to read the book to do well. Find a schedule that works for you so that you can read, slowly, through the material. This isn't a story novel. You have to slow down. Read with intent. Read with intent. <-- I mean it. Take notes. Re-draw the mechanisms yourself. When you get to metabolism, clear your bedroom wall and start taping up pathways. Do it like CSI and use strings to show connections between cycles.

Overall, most of the diagrams and mechanisms are sufficient. At times, they condense the mechanisms down in a way that can be confusing. I found myself decoding "too much going on at once" at times.

* Part 1 Structure & Catalysis *

All of this material seemed very clear to me. I had no problem navigating the diagrams and concepts. Understanding entropy, enthalpy, and Gibbs energy helps a lot when understanding enzymes and protein folding. My piece of advice is to learn the amino acids and nucleic acids now. Don't put it off and slack it thinking you don't have to learn them. I found the kinetics sections to be confusing. That may just be me. I referred to an MCAT prep workbook for more basic coverage of kinetics.

* Part 2 Bioenergetics & Metabolism *

This is the hardest section. It is very dense with both "need to know" content and details for deeper understanding. I found the metabolism chapters (glycolysis, fatty acid oxidation/synthesis, citric acid cycle) to be presented well. My complaint here is that some of the mechanisms seem to try to show "too much at once" like I mention above. I am also very sad to say that I can't find sufficient information on Lactate Dehydrogenase, even though it is mentioned numerous times in the homework problems. Anyway, don't lose the bigger picture of these pathways and their regulation. You may easily recognize the effect insulin has on glycolysis, or gluconeogenesis, but don't forget about the effect it has on fatty acids. Remember to make note of those connections. The citric acid cycle: Please Can I Keep Selling Seashells For Money, Officer? Got me a top score.

* Part 3 Information Pathways *

This is the shortest but by far the most interesting section for me. If you have taken college intro biology then all this will be familiar. DNA polymerase, leading strands, lagging strands... however it gets a little bit deeper in to how all this stuff works. There are some topics that cannot answer all your questions because, well, we don't know the answer! That isn't always made clear but it is made clear enough, I suppose. My professor works in this field and his added contributions are helpful, but I think the book alone is still strong. Homing endonucleases are the creepiest things ever. Just saying.

Jason says

This book finally ties together the threads of courses in all the major biological sub-disciplines (biology, genetics, cell biology, microbiology), and places them firmly in the context of the chemistry of life. Would be a good read in conjunction with an introductory text on physiology.

Rohit says

Perfect book for undergraduate studies. Good language and detailed content. Most of people think "Biochemistry by Stryer" is better over lehninger but according to me lehninger is the best. It has extra details over Stryer. Language is quite easier in stryer but overall best book for studying fundamentals of biochemistry.

Agustina Dapuetto says

I didn't actually read the whole book, but most of it, at least around 900 pages. To be honest, I hated having to read this book, because it was for University, and I'll probably will have to read some of it again for finals in July and I will hate even more. Aside from that, this is a really good book! I mean, I didn't like reading it because who likes studying? But it was so useful and well explained, it fulfilled its purpose, it did what no teacher ever could, it taught me metabolism and I understood it. I'm gonna name this book Lehny because he has been my friend for a whole semester and even though I hate him, I love him.

Meghana Rastogi says

Bible for Biochemistry, easy enough to understand :)

Karim Salama says

I can't talk about Lehninger .. He is the supervisor of my supervisors in Egypt .. you can image :) Dr Hussein Ghaleb one of the most important biochemistry professors in Egypt .. and the world .. He presented Egypt as a member of Unesco in 60's in a very creative project that preserve a large amount of sugar to Cuba .. He started there an idea that can summarized to " formation of a single cell protein from Molasses "

Dr/ Ghalib was Lehninger's student in Germany in 50's i think ..
The conversation can take us the talk about Dr / ghalib ..
He was born at Aswan at 1924 .. Graduated from University of King Foaad The first ..
He has a certification from The king Farouk ..
He has a picture with Gamal abdel-naser .. The second Egyptian president ..
Dr/Ghalib has a picture with Lehninger .. that he always proud ..

Erin says

Although I'm required to read this book, it is very neat how the body works. I am fascinated by how well God has created all of us, and how perfectly we seem to function with ease. It is also neat to understand what happens when the systems are not properly functioning and how it all breaks down. If anyone is interested in learning more about how proteins, carbs, fats and nucleic acids work in the body, pick this book up and start reading.

Luis says

Sin duda, el libro que más consulté mientras estudiaba la asignatura de Bioquímica. Todo lo que no comprendía en las clases lo encontraba al detalle entre sus páginas. Buenas explicaciones a un nivel profundo acompañado de imágenes muy claras.

Un clásico que se merece su renombre.

Dan's Obsessions says

wooah such relief..
.. feelings undescribable, now that I've left that behind

And what can I say, the last Chapter, especially the last few pages was incredible

such lucidity

no drawbacks, or forced assumptions..

& most importantly, there was a continuous feedback loop, to previous parts, that having 'digested' them, I could bring back to memory, with only a hint..

[still I need to research, some stuff I just read a little bit further]

Allcaps says

One of the best textbooks I've ever had the pleasure of reading. Hands down.

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I also have a huge crush on one Mr. David L. Nelson.

Now I have to do the exam.

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