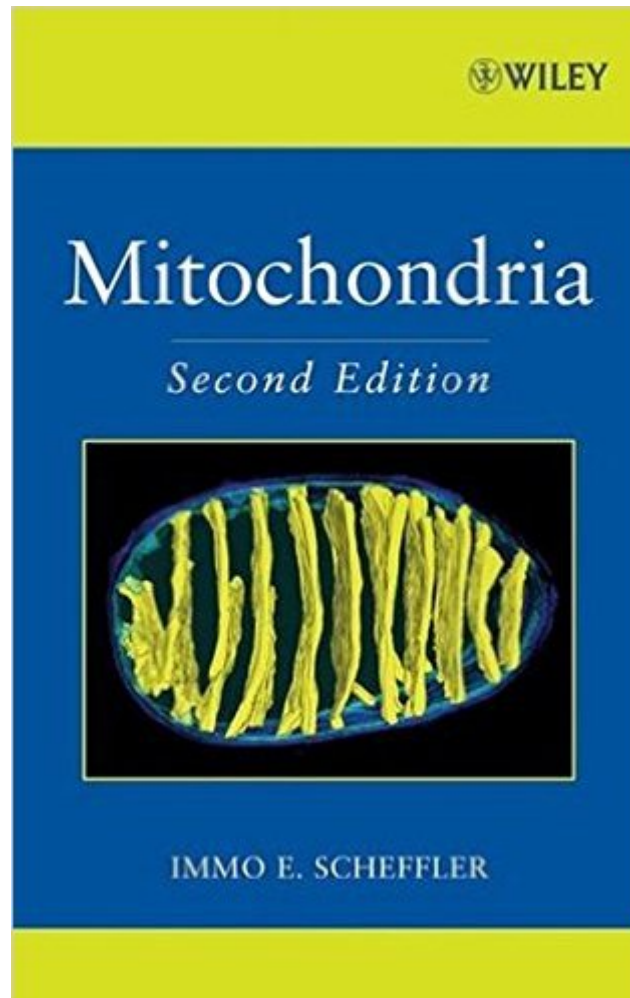


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Mitochondria



Synopsis

"This volume inspires. It certainly will be much appreciated by cell biologists all over the world." Quarterly Review of Biology, March 2009 This book is the eagerly awaited second edition of the best-selling Mitochondria, a book widely acknowledged as the first modern, truly comprehensive authored work on the important, scientifically fundamental topic of the cellular organelles known as mitochondria. This new edition brings readers completely up to date on the many significant findings that have occurred in the eight years since the book was first published. As in that seminal first edition, the second edition tackles the biochemistry, genetics, and pathology of mitochondria in different organisms. The new edition provides thorough updates of all literature concerning this vital organelle, its functions, ongoing research surrounding it, and its importance vis-à-vis a broad range of issues in cellular and molecular biology. The book includes detailed descriptions of current and developing technologies around mitochondrial research and discovery, and highlights subjects that are growing, such as the use of proteomics. This book is an invaluable resource for all geneticists, biologists, and educators in life sciences. It is also of interest for advanced students in genetics and molecular biology.

Book Information

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Customer Reviews

One person in my lab said: "How can one scientist know so much about mitochondria?" Readable for the college/graduate/first year medical student. A superb mid-level introduction. Could have slightly more biophysical treatment of protonmotive forces/membrane potential. All in all, the book

chosen for graduate students entering the lab.

As a non specialist I am very interested in cell biology and am especially interested in the Mitochondria as per its role in oxidative phosphorylation. It is interesting from a sports physiology perspective. It also has sections on diseases which are now being researched more than ever (AZ, Parkinson's) and these sections provide a brief background on such diseases and their connection to the mitochondria. This book is fascinating and makes for a good companion to Lane's, Power, Sex, and Suicide. If new to this area Lane's is a easier first read. I think that for an average person, with a very keen interest in the cell, the book provides as a challenging yet fascinating read.

I admire the concept of one person trying to cover such a comprehensive subject and there is a lot of good information contained in this book, but it is very difficult to read. You have to go back again and again to try and figure out what he is trying to say. Reminded me of some of my poor quality books in graduate school. I am not making this comment lightly, I know how difficult good scientific writing is. I wish more people would attempt books like this. Fascinating subject!

i thought i wanted nick lane to learn about mitochondria, but this is the book i really wanted. i can't quantify it because it is not my field. but it feels at exactly the right level for understanding what eukaryote life means compared to prokaryote in terms of energy consumption and with that multicellular life. so, i am in a sense grateful immo took the pain to write such an exact and articulate book about such a minute subject, and i'm sad i can't afford to pay full price so he could get royalties, and so i bought it used. as an author, i feel bad about that, but i don't have any other way to this level of knowledge and clear writing. i have no idea how people in the field view it, however. his clarity for example might be off-putting to someone with more knowledge than myself.

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