

Praise for the *First Edition*:

"Very valuable."

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"A broadly conceived and lively account of mitochondrial biology and biochemistry . . . [written] with such clarity and spark, and in such an organized and complete manner."

—*Biochemistry and Molecular Biology Education*

This book is the eagerly awaited *Second Edition* of the bestselling book widely acknowledged as the first modern, truly comprehensive work on mitochondria.

Mitochondria, Second Edition brings readers up to date on the many significant findings that have occurred since the book was first published nearly a decade ago. As in that seminal first edition, this *Second Edition* tackles the biochemistry, genetics, and pathology of mitochondria in different organisms. The growth of the subject has required more emphasis on mammalian mitochondria, but fundamental new insights from other organisms are also included. The new edition provides thorough updates of all the 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. *Mitochondria, Second Edition* includes detailed descriptions of current and developing technologies involved in mitochondrial research and discovery, and highlights subjects that are growing, such as the use of proteomics.

Complete with black-and-white drawings and photographs, *Mitochondria, Second Edition* is an invaluable resource for all geneticists, biologists, and educators in the life sciences. It is also of interest to advanced students in genetics and molecular biology.

IMMO E. SCHEFFLER, PhD, is Professor in the Division of Biology (Molecular Biology Section) at the University of California, San Diego. In addition to this well-received book, Dr. Scheffler has more than 100 original publications in scientific literature and has written numerous book chapters.

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