

A major new concise text of biochemistry and molecular biology

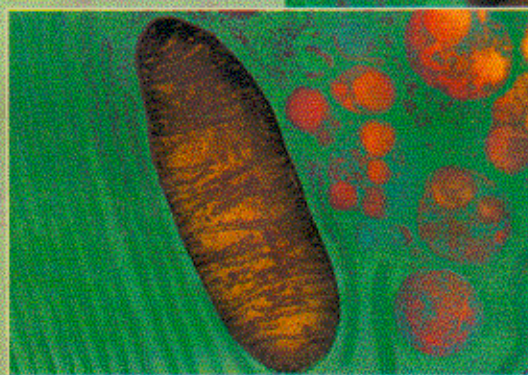
- concise, student-friendly approach
- clear exposition with full-colour illustrations throughout
- suitable for one-year or one-semester main courses in biochemistry
- emphasis on explanation and understanding
- examples drawn from biological and biomedical systems, with extensive cell biology where appropriate

Biochemistry and Molecular Biology is a text designed to meet the needs of students taking a first main course in biochemistry. It adopts a readable, student-friendly style with an emphasis on understanding and explanation. The presentation is modern and attractive, with the use of clear full-colour illustrations throughout the text, and difficult areas are explained in full.

Biochemistry and Molecular Biology covers topics of current special interest as well as more traditional areas in biochemistry. There is an emphasis on biological aspects of biochemistry and new topics are introduced in their biological context wherever possible. As well as presenting core material on the structure of proteins and membranes, metabolism, and information storage and utilization, the text also surveys the immune system, viruses and viroids, and the disparate enzymic protective mechanisms in the body. Areas of special current importance such as metabolic regulation, cell-cell signalling, and control of gene expression are given appropriate emphasis in separate chapters.

Electron micrograph of a pancreatic cell section showing a mitochondrion (orange), with outer and inner membranes and cristae. Oxidation of fuel occurs in mitochondria, which are the main energy-generating sites of the cell. Pancreatic cells which secrete digestive enzymes are rich in rough endoplasmic reticulum (shown on the left) on which the enzymes are synthesized. Before release they are stored as secretory vesicles (shown in pink on the right).

Photograph courtesy of
K. R. Porter/Science Photo Library



Also available in hardback

OXFORD UNIVERSITY PRESS

ISBN 0-19-857793-1



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