



# Subcellular Biochemistry and Molecular Biology: 004

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The Biology of Euglena, Volume IV: Subcellular Biochemistry and Molecular Biology focuses on the subcellular biochemistry and molecular biology of eukaryotic microorganisms that belong to the genus *Euglena*, including *Euglena gracilis*. It investigates enzymes and their functional location in *Euglena* cells, along with subcellular particles, the nucleus, the mitochondria, the chloroplast protein synthesis and chloroplast DNA, and the microbodies and lysosomes of *Euglena*.

Organized into eight chapters, this volume begins with an overview of techniques in determining the location of enzymes and in isolating organelles in *Euglena*. It then proceeds with a discussion of the nucleus, its ultrastructure and macromolecules, and chromatin organization. The next chapters examine the morphology and ultrastructure of mitochondria, the morphology and biogenesis of microbodies and lysosomes, the nuclear-cytoplasmic interaction, and the structure and physicochemical properties of chloroplast DNA. The last two chapters consider the ribosomal RNAs of *Euglena* and the organization and activities of cytoplasmic, mitochondrial, and chloroplast ribosomes and polyribosomes, along with its polyadenylated and messenger RNA.

This book will be of interest to biochemists, molecular biologists, botanists, and plant geneticists.

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