

## CONTENTS

Chapter 1 Cell Walls and Membranes in Fungi An Introduction	1
Chapter 2 Fungal Cell Walls A Review	5
Chapter 3 Chitin Synthesis in Yeast	31
Chapter 4 A Novel Computer Model for Generating Cell Shape: Application to Fungal Morphogenesis	43
Chapter 5 Inhibition of Chitin Metabolism	61
Chapter 6 Wall Structure, Wall Growth, and Fungal Cell Morphogenesis	81
Chapter 7 Cellulose and $\beta$ -Glucan Synthesis in <i>Saprolegnia</i>	97
Chapter 8 Synthesis and Function of Glycosylated Proteins in <i>Saccharomyces cerevisiae</i>	109
Chapter 9 Lipids in the Structure and Function of Fungal Membranes	119
Chapter 10 Importance and Role of Sterols in Fungal Membranes	135
Chapter 11 HMG-CoA to Isopentenyl Pyrophosphate Enzymology and Inhibition	159
Chapter 12 Isopentenyl Diphosphate to Squalene Enzymology and Inhibition	169
Chapter 13 Squalene Epoxidase Enzymology and Inhibition	189
Chapter 14 Inhibition of Sterol Biosynthesis in Higher Plants by Analogues of High energy Carbocationic Intermediates	205
Chapter 15 Lanosterol to Ergosterol Enzymology, Inhibition and Genetics	223
Chapter 16 Biosynthesis and Role of Phospholipids in Yeast Membranes	245
Chapter 17 Inhibitors of Phospholipid Biosynthesis	261
Chapter 18 Transduction of the Calcium Signal with Special Reference to $Ca^{2+}$ -Induced Conidiation in <i>Penicillium Notatum</i>	283
Chapter 19 Structure and Function of Fungal Plasma Membrane ATPases	299
Subject Index	317