

10TH EDITION

STOPLY & WILSON'S

MICROBIOLOGY & MICROBIAL INFECTIONS



MEDICAL MYCOLOGY

EDITED BY

WILLIAM G. MERZ & RODERICK J. HAY

Contents

	List of contributors	vii
	Preface	xi
	List of abbreviations	xiii
PART I	BACKGROUND AND BASIC INFORMATION	1
1	Historical introduction: evolution of knowledge of the fungi and mycoses from Hippocrates to the twenty-first century Edouard Drouhet	3
2	Kingdom Fungi: fungal phylogeny and systematics Thomas G. Mitchell	43
3	Fungal structure and morphology Paul F. Lehmann	69
4	Laboratory diagnosis Glenn D. Roberts and Norman L. Goodman	82
5	Mycoserology and molecular diagnosis Ruth Matthews and James P. Burnie	97
6	Histopathological diagnosis of mycotic diseases Henrik Elvang Jensen and Francis W. Chandler	121
PART II	THERAPEUTIC AGENTS AND VACCINES	145
7	Antifungal agents and antifungal susceptibility testing Sanjay G. Revankar, John R. Graybill, and Thomas F. Patterson	147
8	Principles of antifungal therapy Peter G. Pappas	164
9	Resistance to antifungal agents Sevtap Arikan and John H. Rex	168
10	Management of superficial infections Jeff Weeks and Boni Elewski	182
PART III	SUPERFICIAL AND OCULAR FUNGAL INFECTIONS	193
11	White piedra, black piedra, and tinea nigra G. Sybren de Hoog and Eveline Guého	195
12	Superficial diseases caused by <i>Malassezia</i> species Vicente Crespo Erchiga and Eveline Guého	202
13	The dermatophytes Arvind A. Padhye and Richard C. Summerbell	220
14	Dermatomycotic molds Colin K. Campbell and Elizabeth M. Johnson	244
15	Superficial candidiasis Paul L. Fidel Jr and Karen L. Wozniak	255
16	Oculomycosis Philip A. Thomas and P. Geraldine	273
PART IV	SUBCUTANEOUS MYCOSES	345
17	Subcutaneous zygomycosis David H. Ellis	347
18	Chromoblastomycosis Philippe Esterre	356
19	Sporotrichosis Roberto Arenas	367
20	Eumycetomas Roderick J. Hay	385
21	Protothecosis R. Scott Pore	396
22	Pythiosis Leonel Mendoza	412
23	Lobomycosis Sinésio Talhari and Roger Pradinaud	430
24	Rhinoporioidosis Sarath N. Arseculeratne and Leonel Mendoza	436
PART V	SYSTEMIC MYCOSES DUE TO DIMORPHIC FUNGI	477
25	Blastomycosis Arthur F. Di Salvo and Bruce S. Klein	479
26	Coccidioidomycosis Demosthenes Pappagianis	502
27	Histoplasmosis Ram P. Tewari, L. Joseph Wheat, and L. Ajello	519

28	Paracoccidioidomycosis	Gil Benard and Marcello Franco	541
29	Penicilliosis	Maria Anna Viviani and Nongnuch Vanittanakom	560
PART VI SYSTEMIC MYCOSES CAUSED BY OPPORTUNISTIC FUNGI			577
30	Candidiasis	Esther Segal and Daniel Elad	579
31	Serious infections caused by uncommon yeasts	Janine R. Maenza and William G. Merz	624
32	Cryptococcosis	John R. Perfect and Gary M. Cox	637
33	Systemic zygomycosis	David H. Ellis	659
34	Aspergillosis	Malcolm D. Richardson	687
35	Deep phaeohyphomycosis	Chester R. Cooper, Jr	739
36	Deep hyalohyphomycosis	Caroline B. Moore and David W. Denning	749
37	<i>Pneumocystis pneumonia</i>	Melanie T. Cushion	763
PART VII UNUSUAL DISEASE PRESENTATIONS BY FUNGI			807
38	Adiaspiromycosis and other infections caused by <i>Emmonsia</i> species	Lynne Sigler	809
	Index		825
	Table of contents for all volumes in the series		863