

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 Gueho	195
12 Superficial diseases caused by <i>Malassezia</i> species Vicente Crespo Erchiga and Eveline Gueho	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 Sinesio Talhari and Roger Pradinaud	430
24 Rhinosporidiosis Sarath N. Arsecularatne 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</i> pneumonia 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