Fundamental Medical Mycology

Description: Provides a solid foundation for both clinical laboratory and medical practice

Drawing from the most current research findings in mycology, immunology, and molecular biology, Fundamental Medical Mycology is an ideal textbook and general reference to the field. The authors' in-depth coverage of laboratory diagnostic methods, state-of-the-art infectious disease practice, and epidemiology creates a solid foundation for readers interested in clinical laboratory science, medical practice, and public health.

The text begins with three chapters that set the stage for the nineteen fungal disease-specific chapters that follow. The first chapter explores the broad spectrum of diseases, taxonomy, reproduction, physiology of the fungal cell, primary and opportunistic pathogens, and determinants of pathogenicity. The second chapter presents step-by-step classical and molecular laboratory diagnostic methods. The third chapter examines antifungal therapy as well as antifungal susceptibility testing.

Each one of the disease-specific chapters adheres to a uniform organization, making it easy to locate materials and compare the underlying causes, symptoms, and treatments for each fungal disease. Readers will find coverage of such critical topics as etiologic agents, epidemiology, risk factors, transmission, clinical and veterinary forms, therapies, and laboratory detection. Moreover, each chapter features:

- Case studies that help readers understand how fungal diseases are detected and treated
- Illustrations to support accurate identification of fungal agents and diagnosis of disease
- Questions and answers to gauge readers' grasp of key concepts as they progress in the text
- Selected references supporting further research of key concepts, fungal agents, and diseases
- A glossary defines all the key terms used throughout the text.

This book serves as a current reference for clinical microbiologists and healthcare professionals and as a textbook for courses in medical mycology. No prior knowledge of mycology is assumed, making the text highly accessible to all readers who have a basic foundation in general biology and medical microbiology.

Contents:

Preface xvii
Acknowledgments xix

Part One Introduction to Fundamental Medical Mycology, Laboratory Diagnostic Methods, and Antifungal Therapy

1. Introduction to Fundamental Medical Mycology 3
   1.1 Topics not Covered, or Receiving Secondary Emphasis 3
   1.2 Biosafety Considerations: Before You Begin Work with Pathogenic Fungi... 3
   1.3 Fungi Defined: Their Ecologic Niche 5
   1.4 Medical Mycology 5
   1.5 A Brief History of Medical Mycology 6
   1.6 Rationale for Fungal Identification 9
9.5 Etiologic Agents 218
9.6 Geographic Distribution/Ecologic Niche 219
9.7 Epidemiology 219
9.8 Transmission 220
9.9 Determinants of Pathogenicity 220
9.10 Clinical Forms 223
9.11 Human Animal Interface 224
9.12 Therapy 225
9.13 Laboratory Detection, Recovery, and Identification 227

10A. Less Frequent Mycoses Caused by Dimorphic Environmental Molds: Adiaspiromycosis 233
10B. Less Frequent Mycoses Caused by Dimorphic Environmental Molds (Endemic Mycoses): Lobomycosis (Jorge Lobo’s Disease) 241

Part Three Systemic Mycoses Caused by Opportunistic Yeasts and Pneumocystis
11. Candidiasis and Less Common Yeast Genera 251
11.1 Candidiasis–at–a–Glance 251
11.2 Introduction/Disease Definition 251
11.3 Case Presentations 252
11.4 Diagnosis 255
11.5 Etiologic Agents and their Ecologic Niches 255
11.6 Epidemiology 258
11.7 Risk Groups/Factors 264
11.8 Transmission 265
11.9 Clinical Forms 266
11.10 Determinants of Pathogenicity 273
11.11 Therapy 282
11.12 Laboratory Detection, Recovery, and Identification 286
11.13 Less Common Opportunistic Yeast Genera 292

12. Cryptococcosis 303
12.1 Cryptococcosis–at–a–Glance 303
12.2 Introduction/Disease Definition 303
12.3 Case Presentations 304
12.4 Etiologic Agents 307
12.5 Geographic Distribution/Ecologic Niche 311
12.6 Epidemiology 312
12.7 Risk Groups/Factors 315
12.8 Transmission 316
12.9 Determinants of Pathogenicity 316
12.10 Clinical Forms 321
12.11 Veterinary Forms 323
12.12 Therapy 324
12.13 Laboratory Detection, Recovery, and Identification 326
13. Pneumocystosis 333
13.1 Pneumocystosis—at—a—Glance 333
13.2 Introduction/Disease Definition 333
13.3 Case Presentation 334
13.4 Etiologic Agent 335
13.5 Geographic Distribution/Ecologic Niche 336
13.6 Epidemiology 337
13.7 Risk Groups/Factors 339
13.8 Transmission 340
13.9 Determinants of Pathogenicity 340
13.10 Clinical Forms 343
13.11 Therapy 346
13.12 Laboratory Detection, Recovery, and Identification 348
Part Four Systemic Mycoses Caused by Opportunistic Hyaline Molds
14. Aspergillosis 357
14.1 Aspergillosis—at—a—Glance 357
14.2 Introduction/Disease Definition 358
14.3 Case Presentations 358
14.4 Etiologic Agents 361
14.5 Geographic Distribution/Ecologic Niche 362
14.6 Epidemiology and Risk Groups/Factors 363
14.7 Transmission 369
20.7 Epidemiology 515
20.8 Risk Groups/Factors 516
20.9 Transmission 516
20.10 Determinants of Pathogenicity 516
20.11 Clinical Forms (Fahal, 2004) 517
20.12 Veterinary Forms 518
20.13 Therapy 518
20.14 Laboratory Detection, Recovery, and Identification 520

Part Six Dermatophytosis and Dermatomycoses (Superficial Cutaneous Mycoses)

21. Dermatophytosis 527
21.1 Dermatophytosis—at–a–Glance 527
21.2 Introduction/Disease Definition 528
21.3 Case Presentations 529
21.4 Diagnosis 530
21.5 Etiologic Agents 530
21.6 Geographic Distribution/Ecologic Niche 534
21.7 Epidemiology 534
21.8 Risk Groups/Factors 537
21.9 Transmission 539
21.10 Determinants of Pathogenicity 540
21.11 Clinical Forms 542
21.12 Veterinary Forms 550
21.13 Therapy 552
21.14 Laboratory Detection, Recovery, and Identification 554

22. Dermatomycoses 567
22A Major Nondermatophytic Fungi from Skin and Nails 567
22B Superficial Mycosis of the Hair Caused by a Nondermatophyte Mold: Black Piedra 569
22C Superficial Mycoses Caused by Yeasts and Yeast–like Fungi 571
22D Chrysosporium and Other Nonpathogenic or Opportunistic Fungi Isolated from Skin and Resembling Dermatophytes in Culture 584

Selected References for Dermatomycoses 585
Ordering:

Order Online - [http://www.researchandmarkets.com/reports/2052691/](http://www.researchandmarkets.com/reports/2052691/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Fundamental Medical Mycology
Web Address: http://www.researchandmarkets.com/reports/2052691/
Office Code: SCDGPFA

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Hard Copy (Hard Back)</th>
<th>USD 111 + USD 29 Shipping/Handling</th>
</tr>
</thead>
</table>
* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: _______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World