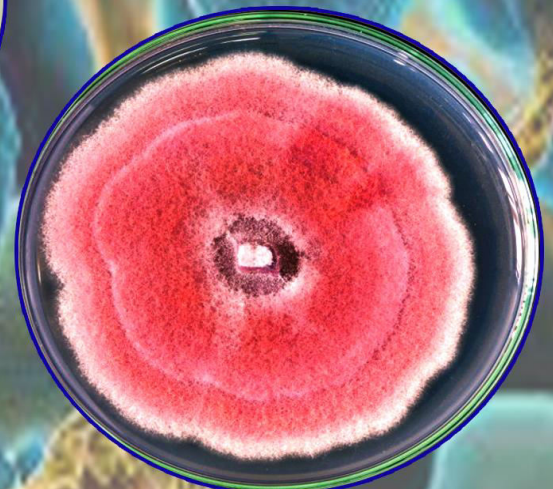
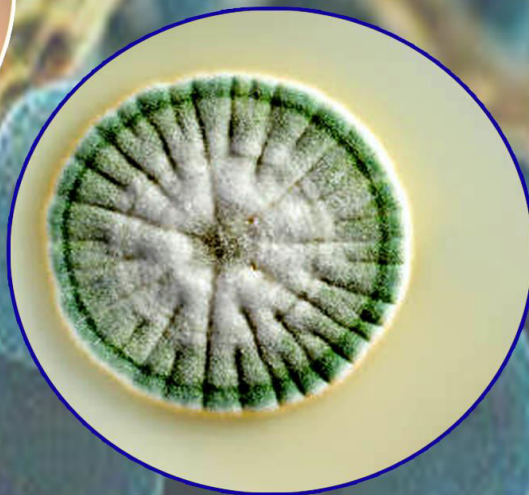
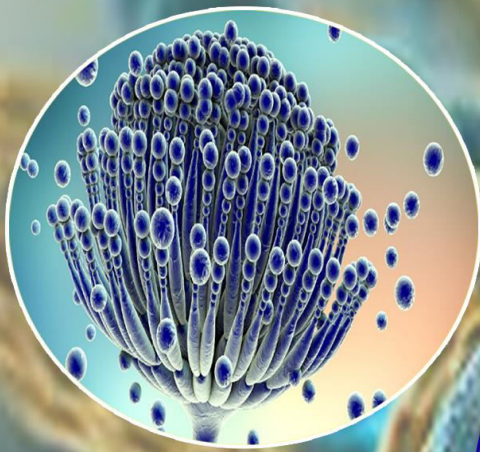


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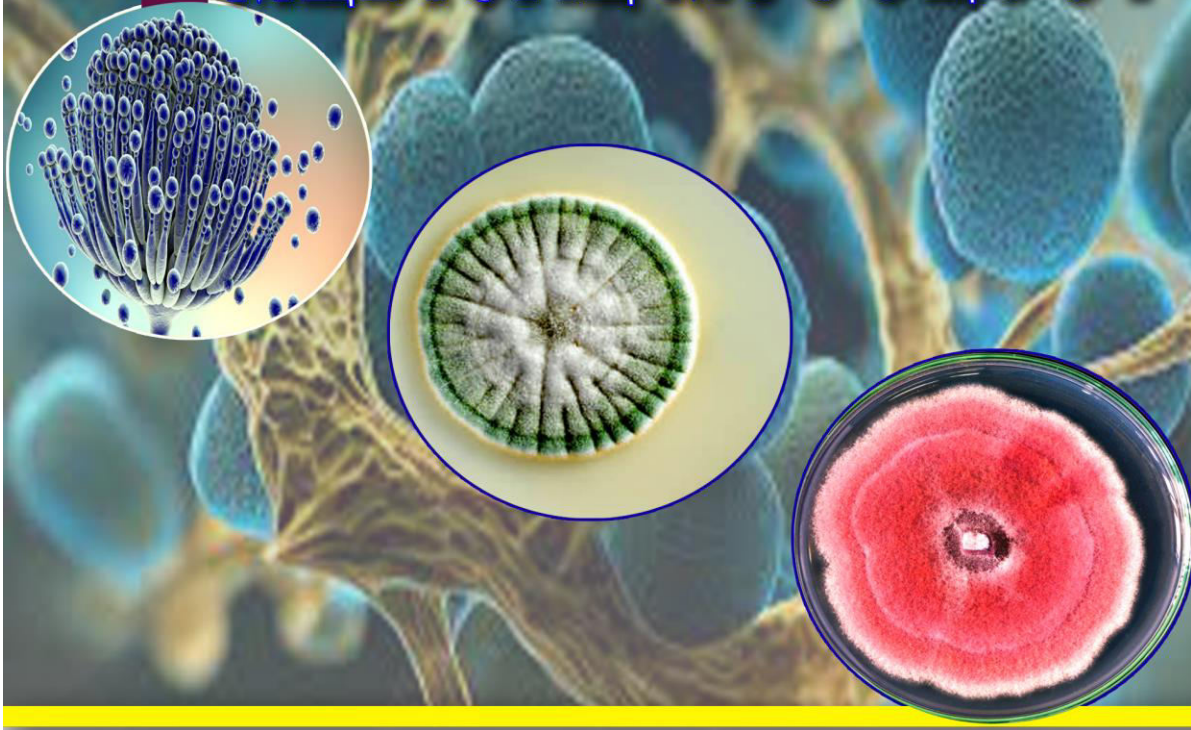
Postgraduate Text Book of **MEDICAL MYCOLOGY**

Dr. Sayan Bhattacharyya
Dr. K. P. Anirima
Dr. Indraneel Saha



Excellent Publishers

Postgraduate Text Book of **MEDICAL MYCOLOGY**



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PREFACE

Medical Mycology has rapidly evolved into a vital subspecialty of clinical microbiology, owing to the growing prevalence of invasive and opportunistic fungi in hospital and community settings. The complexity of fungal pathogens, coupled with diagnostic challenges and emerging antifungal resistance, highlights the pressing need for a focused and comprehensive reference for postgraduate learners and practicing microbiologists. Many fungi have recently emerged now as causative agents of allergic, deep-seated and invasive infections, given newly emergent predisposing factors like immunosuppression, occupational hazards, increased man-animal conflict, deforestation and construction.

“The Postgraduate Textbook of Medical Mycology” has been designed to specifically offer a balanced integration of fundamental concepts and modern diagnostic approaches. The book begins with essential topics such as fungal taxonomy, morphology, and staining, progressing toward culture techniques, histopathological interpretation, and clinical manifestations of fungal infections. Subsequent chapters delve into the identification of yeasts, molds, and dimorphic fungi, with special emphasis on diagnostic accuracy and laboratory differentiation. The concluding sections address advanced and evolving diagnostic modalities, bridging the gap between conventional microscopy and molecular innovation. Recently emerging fungi such as *Candida auris* responsible for causing hospital outbreaks have also been covered.

Each chapter has been thoughtfully structured to blend theoretical understanding with practical application, supported by schematic illustrations, key tables, and concise explanations. This book aims not only to assist postgraduate students in examinations but also to serve as a dependable laboratory and clinical companion for those involved in the diagnosis and management of mycoses. By combining foundational knowledge with current trends in antifungal susceptibility testing and diagnostic technology, this book aspires to strengthen diagnostic proficiency and inspire continued research in the field of medical mycology. Hopefully the readers will find this work both informative and relevant in addressing the challenges of fungal diseases in modern medicine.

Editor(s)

ABOUT THE EDITOR



Dr. Sayan Bhattacharyya is a distinguished Professor in the Department of Microbiology at the All India Institute of Hygiene and Public Health, Kolkata. He earned his MBBS from Medical College, Calcutta, and completed his M.D. in Microbiology from the prestigious PGIMER, Chandigarh. With a prolific academic and research career, Dr. Sayan Bhattacharyya has authored over 115 scientific publications in reputed national and international journals. His key areas of expertise include antimicrobial resistance (AMR), medical mycology, and food microbiology. A passionate educator and researcher, he has contributed significantly to advancing microbial diagnostics and infection control practices. Dr. Sayan Bhattacharyya continues to play a pivotal role in promoting microbiological research and guiding young scientists in the field.

ABOUT THE EDITOR



Dr. Anirima K. P. is a dedicated medical professional currently serving as a Senior Resident in the Department of Microbiology at the All India Institute of Medical Sciences (AIIMS), Patna. She completed her MBBS from Medical College, Calcutta, followed by an M.D. in Microbiology from AIIMS Patna, and also holds a DNB certification from the National Medical Commission (NMC). Her primary areas of interest include Medical Mycology, Parasitology, and Antimicrobial Resistance (AMR). Dr. Anirima has authored three research publications and continues to contribute actively to diagnostic and academic advancements in clinical microbiology. She is deeply committed to research, teaching, and the promotion of evidence-based laboratory practices in infectious disease management.

ABOUT THE EDITOR



Dr. Indraneel Saha is an accomplished medical professional currently serving as an Assistant Professor at Shantiniketan Medical College. He earned his MBBS from Nil Ratan Sircar Medical College, Kolkata, and completed his M.D. in Microbiology from SSKM Hospital, Kolkata. With a strong foundation in clinical microbiology, Dr. Indraneel Saha's primary areas of interest include Hospital Infection Control and Infectious Diseases. He is actively involved in academic teaching, research, and implementing infection prevention protocols in healthcare settings. Dr. Indraneel Saha has authored over 3 scientific publications in reputed national and international journals. Dr. Indraneel Saha is committed to promoting patient safety through evidence-based infection control practices and fostering awareness of emerging infectious disease challenges.

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