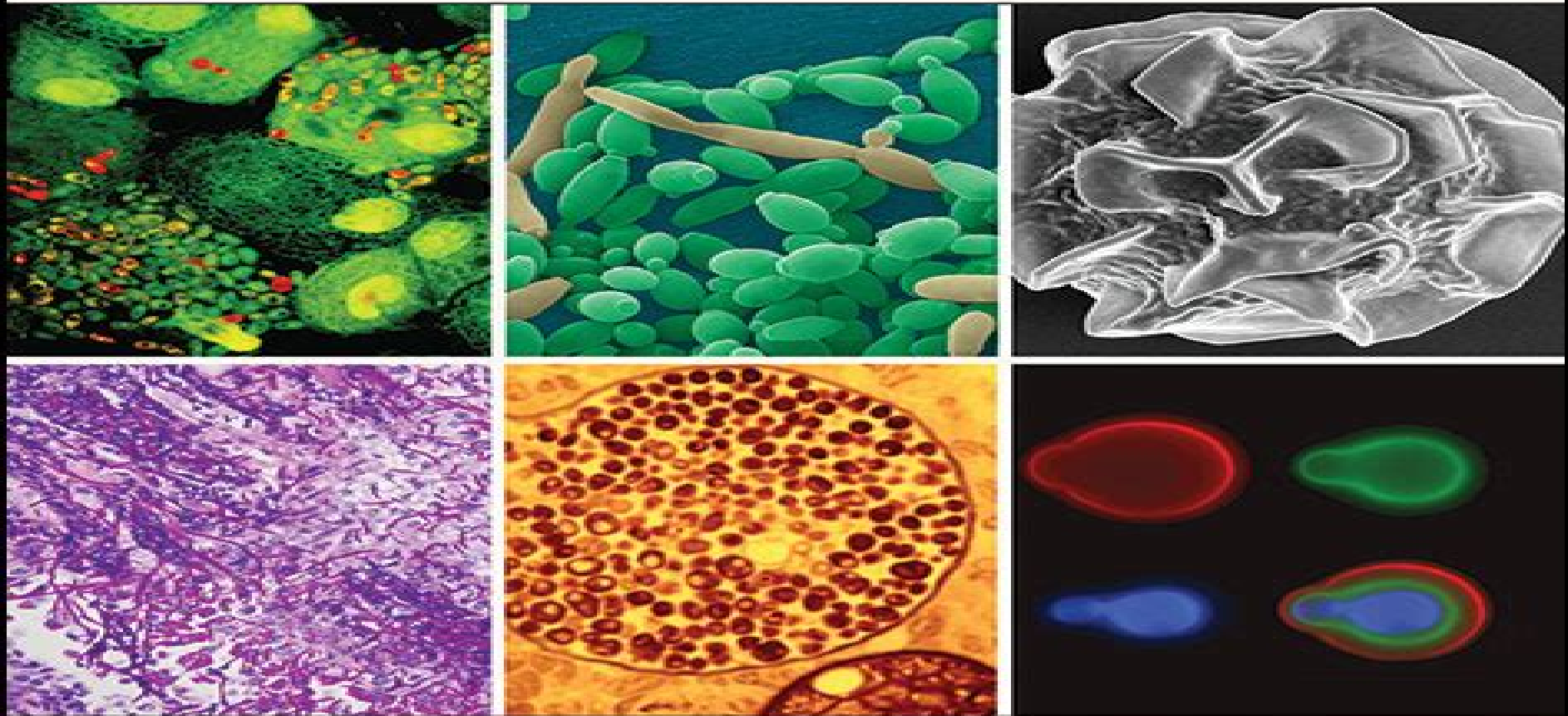


COLD SPRING HARBOR PERSPECTIVES IN MEDICINE

Human Fungal Pathogens



EDITED BY Arturo Casadevall, Aaron P. Mitchell,
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John R. Perfect, and Joseph Heitman

Human Fungal Pathogens

Dongyou Liu



Human Fungal Pathogens:

Human Fungal Pathogens Oliver Kurzai, 2013-11-29 Whereas plant and insect infections are commonly caused by fungi only a small minority of the vast diversity of fungal species is pathogenic to humans Despite this fungal infections cause considerable morbidity and mortality worldwide This volume is dedicated to the biology clinical presentation and management of invasive fungal infections Major pathogenic fungi are introduced by world leading experts and the basic principles of fungal virulence are reviewed in the light of new results and experimental technologies that offer unprecedented insights into invasive infections caused by *Aspergillus* *Candida* *Cryptococcus* *Pneumocystis* and *Mucorales* In parallel the clinical presentation of invasive fungal infections and current approaches to their diagnosis and treatment are summarized to provide an overview of human pathogenic fungi linking pathogen biology to the clinical presentation of disease

Human Fungal Pathogens Judith E. Dömer, George S. Kobayashi, 2013-06-29 Provided here are both reviews and recent results of studies with medically important fungi Throughout the volume outstanding mycologists treat the ecological role of pathogenic fungi how they cause disease their interactions with the immune system and their responses to antifungal agents Most of the presented results are based on molecular biological approaches areas where classical and descriptive methods are applied are also included

Immunity to Human Fungal Pathogens: Mechanisms of Host Recognition, Protection, Pathology, and Fungal Interference Steven P. Templeton, Amariliz Rivera, Bernard Hube, Ilse D. Jacobsen, 2019-01-24 Fungi are found in virtually every environment and comprise a significant portion of the normal microflora of healthy individuals Some species of fungi are aeroallergen sources capable of inducing sensitization and causing exacerbation of asthma and respiratory allergy Others are transmissible between hosts and may cause no symptoms in healthy individuals However immune suppressed individuals may develop invasive disease marked by tissue invasion with a potential for widespread dissemination Existing therapies for patients consist of antifungal drugs yet these require prolonged administration with the possibility of adverse side effects and may be rendered ineffective by the emergence of antifungal resistant strains It is therefore of interest to increase our understanding of host pathogen interactions in order to facilitate the development of new therapies for individuals suffering from fungal infection and disease These early interactions are shaped by an array of constituent and secreted factors that stimulate or inhibit host immune responses toward protective or detrimental immunity Likewise an array of preformed factors and tissue resident cells provide early protection from fungal infection and provide extracellular signals that result in localized recruitment of inflammatory cells and determine the character of subsequent adaptive antifungal immunity This Research Topic explores the host and fungal pathways that program innate and adaptive immunity and the immune cells molecules and regulatory pathways that comprise protective or detrimental responses to fungal exposure or infection Over 200 authors contributed reviews opinions or original research focusing on antifungal immunity in humans and in experimental models We believe that the results of

these efforts provide a benchmark for further advances and improved antifungal therapies *Human Fungal Pathogens* Judith E. Dörm, George S. Kobayashi, 2003-10-07 Reviews and recent results of studies with medically important fungi Throughout the volume outstanding mycologists treat the ecological role of pathogenic fungi how they cause disease their interactions with the immune system and their responses to antifungal agents Most of the presented results are based on molecular biological approaches areas where classical and descriptive methods are applied are also included Human Fungal Pathogens Arturo Casadevall, 2015 A subject collection from Cold Spring Harbor perspectives in medicine The Fungal Cell Wall Jean-Paul Latgé, 2020-08-12 This book illustrates that the fungal cell wall is critical for the biology and ecology of all fungi and especially for human fungal pathogens Readers will learn that the composition of the fungal cell wall is a unique structure which cannot be found in the human host Consequently the chapters outline how the immune systems of both animals and humans have evolved to recognize conserved and unique elements of the fungal cell wall As an application example the authors also show that the three dimensional structures of the cell wall are excellent targets for the development of antifungal agents and chemotherapeutic strategies With the combination of biological findings and medical outlooks this volume is a fascinating read for scientists clinicians and biomedical students *Human Fungal Pathogen Identification* Thomas Lion, 2016 This detailed volume presents timely and authoritative content offering a comprehensive overview of the current state of the art in fungal diagnostics Moreover it addresses on going developments expected to provide a basis for targeted treatment strategies resulting in improved outcome of invasive mycoses The knowledge of host related predisposing factors and stratified treatment options facilitating timely onset of adequate antifungal therapy are critical for successful clinical management and outcome of invasive fungal disease IFD requiring not only rapid diagnosis of a fungal infection and identification of the causative species but also assessment of pathogen host factors related to pathogenicity susceptibility and response to treatment Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Human Fungal Pathogen Identification Methods and Protocols serves as an ideal reference for researchers investigating the ever growing worldwide healthcare problems involving fungal infections **Genomic Characterization of Emerging Human Fungal Pathogens** Christina A. Cuomo, Bridget Marie Barker, Nelesh P. Govender, 2021-05-25 **Molecular Detection of Human Fungal Pathogens** Dongyou Liu, 2011-06-17 The large number of molecular protocols available creates a dilemma for those attempting to adopt the most appropriate for streamlined identification and detection of fungal pathogens of interest Molecular Detection of Human Fungal Pathogens provides a reliable and comprehensive resource relating the molecular detection and identification of major Fungal Pathogenesis in Humans Fernando Leal, 2019-05-27 Dear Colleagues Cancer survival rates and successful organ transplantation in patients continues to increase due to improvements in early diagnosis

and treatments Since immuno suppressive therapies are frequently used the mortality rate due to secondary infections has become an ever increasing problem Opportunistic fungal infections are probably the deadliest threat to these patients due to their difficult early diagnosis the limited effect of antifungal drugs and the appearance of resistances In recent years a considerable effort has been devoted to investigating the role of many virulence traits in the pathogenic outcome of fungal infections New virulence factors hypoxia adaptation CO₂ sensing pH regulation micronutrient acquisition secondary metabolites immunity regulators etc have been reported and their molecular mechanisms of action are being thoroughly investigated The recent application of gene editing technologies such as CRISPr Cas9 has opened a whole new window to the discovery of new fungal virulence factors Accurate fungal genotyping Next Generation Sequencing and RNAseq approaches will undoubtedly provide new clues to interpret the plethora of molecular interactions controlling these complex systems Unraveling their intimate regulatory details will provide insights for a more target focused search or a rational design of more specific antifungal agents This Special Issue is show significant discoveries proofs of concept of new theories or relevant observations in fungal pathogenesis and its regulation Dr Fernando Leal Guest Editor

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