

Pathogenic Fungi: Insights in Molecular Biology



In recent years, the development of new molecular biology tools and the elucidation of whole genome sequences have revolutionized research on pathogenic fungi. Such advances have led to the development of faster, more reliable, diagnostic techniques for medically important pathogens such as *Candida albicans*, *Aspergillus fumigatus*, and *Cryptococcus neoformans*. In addition, they have led to a major breakthrough in the approach for the generation of novel anti-fungal agents. Now it is possible to search for agents that target essential genes. Research in this area has never been more exciting. In this book, a panel of expert international mycologists critically review the most important cutting-edge topics. Chapters are written from a molecular and genomic perspective, and through the provision of extensive reference sections positively encourage readers to pursue the subject in greater detail. Topics include: gene expression and regulation, heterozygosity in *Candida*, molecular diagnosis, regulation of the host-fungal interaction, the development of anti-fungals, signal transduction, and mechanisms of multi-drug resistance. The book will be essential reading for everyone with an interest in pathogenic fungi including mycologists, biotechnologists, molecular biologists, and pharmaceutical and biotechnology companies.

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Target Drug Discovery in Human Fungal Pathogenesis in Plants and Crops: Molecular Biology and Host Defense ?Offers fresh insight into the interplay of signaling systems in plant and **Human Pathogenic Fungi: Molecular Biology and Pathogenic** Insights in Molecular Biology Gioconda San-Blas, Richard A. Calderone. From: Pathogenic Fungi: Insights in Molecular Biology. Edited by: G. San-Blas and R. 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